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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.
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- 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.

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- Phone the NASA STI Help Desk at 443-757-5802
- 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 Alphabetical Update* (September 1971), the *NASA Thesaurus* (1982, 1985, 1988, 1994, and 1998 editions), and other terms approved for use through the end of December 2008. 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

# Key

- 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

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

GS

attack aircraft A-10 aircraft Republic aircraft

A-10 aircraft RT ∞ aircraft

A-11 satellite

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

military 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 international cooperation

A-320 aircraft

GS 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) 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 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 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 aberration self assembly 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 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 Apollo project planetary atmosphere to provide thermal protecflight termination systems 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 GS trajectories impingement digestive system gastrointestinal system abort trajectories jet impingement aborted missions mass transfer intestines emergency landing melting peritoneum MATTS (systems) pyrolysis stomach reentry ventral sections aborted missions reentry effects reentry physics viscera abort apparatus 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, abrasion 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 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) anisoplanatism nozzle inserts friction pyrolytic materials asphericity grinding (material removal) blurring refractory materials lesions

temperature

thermal control coatings

metallography

polishing

∞ coma

crystal optics

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 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 energy absorption energy absorption films similar use. degassing RT abrasion aluminum oxides drying apparatus gamma ray absorption infrared absorption ∞ equipment material absorption Carborundum (trademark) ceramics infrared spectra diamonds refrigerating machinery material absorption 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 density (mass/volume) cryogenic temperature Used for capture cross sections. 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

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

air conditioning equipment

low density materials

material absorption

turbidity

absorption

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

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.

absorption bands

spectral absorption.

... absorption spectra
... Fraunhofer lines . . . Herzberg bands

through a selectively absorbing medium cooler

than the source. Used for absorption bands and

# absorption spectroscopy

telluric lines	annillator atranatha	gravimetry
	oscillator strengths	gravimetry
. spectral bands	photoacoustic spectroscopy	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-	•
	ments in the Earth's crust is O, Si, AL, Fe, Ca,	high gravity environments
H gamma line	etc. Used for element abundance.	impact acceleration
H lines	UF element abundance	particle acceleration
ionizing radiation	RT availability	plasma acceleration
K lines	energy policy	transverse acceleration
laser spectrometers	geochemistry	RT ∞ acceleration
line spectra		acceleration measurement
microwave absorption	metallic stars	acceleration stresses (physiology)
microwave spectra	metallicity	accelerometers
molecular spectra	reserves	body kinematics
molecular spectroscopy	resources	expulsion
oscillator strengths	stellar composition	flight stress (biology)
paramagnetic resonance	40 ( )	∞ force
Paschen series	AC (current)	kinematics
photoacoustic spectroscopy	USE alternating current	kinetics
photoluminescent bands		mechanical shock
photon absorptiometry	AC generators	∞ motion
Raman spectra	DEF Generators for the production of	physiological acceleration
rotational spectra	alternating-current power. Used for alternating	stress (physiology)
Rydberg series	current generators and alternators (generators).	thrust
Schumann-Runge bands	UF alternating current generators	thrust-weight ratio
self absorption	alternators (generators)	
·	GS electric generators	velocity
solar spectra	. AC generators	
solar spectrometers	linear alternators	acceleration measurement
spectrum analysis	static alternators	(added April 1997)
spin temperature	RT compulsators	SN (LIMITED TO TECHNIQUES AND
stellar spectra	free-piston engines	INSTRUMENTATION FOR DETERMINING THE DIRECTION AND MAGNITUDE OF
symbiotic stars	∞ generators	ACCELERATION; USE TERMS FROM THE
ultraviolet spectra	rotating generators	"ACCELERATION (PHYSICS)"
visible spectrum	turbogenerators	HIERARCHY TO INDICATE THE DATA OBTAINED FROM MEASUREMENT)
	tarbogonoratoro	RT acceleration (physics)
absorption spectroscopy	AC-1 aircraft	accelerometers
GS spectroscopy	USE DHC 4 aircraft	angular acceleration
. absorption spectroscopy	OOL BIIO I amorait	inertial navigation
optogalvanic spectroscopy	accelerated life tests	∞ measurement
RT ∞ absorption	DEF Methods designed to approximate, in a	robot sensors
Fraunhofer lines	short time, the deteriorating effects under nor-	transverse acceleration
infrared spectroscopy	mal long-term service conditions.	
laser-induced breakdown	RT acceptability	velocity measurement
spectroscopy	evaluation	and the second s
optical equipment	fatigue life	acceleration protection
optical measuring instruments		GS protection
ultraviolet spectroscopy	life (durability)	acceleration protection
	performance tests	RT ∞ acceleration
absorptive index	quality control	embedding
USE absorptivity	service life	supine position
• •	∞ tests	
absorptivity	and a stration are at a	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	admixtures	centrifuging stress
enough to be completely opaque, and having an	∞ agents	stress (physiology)
optically smooth surface. Used for absorption	catalysts	. acceleration stresses (physiology)
coefficient and absorptive index.	retardants	centrifuging stress
UF absorption coefficient	a a a la vation	RT ∞ acceleration
absorptive index	∞ acceleration	acceleration (physics)
GS electromagnetic properties	SN (USE OF A MORE SPECIFIC TERM IS	aerospace medicine
. optical properties	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)	artificial gravity
absorptivity	DEF The time rate of change of velocity.	body kinematics
RT ∞ absorption	RT acceleration (physics)	dizziness
Beer law	acceleration protection	gravitational effects
Bouguer law	acceleration stresses (physiology)	gravitational physiology
density (mass/volume)	∞ accelerators	gravity perception
electromagnetic absorption	angular acceleration	head movement
Kirchhoff law of radiation	catalysis	high acceleration
microwave absorption	electromagnetic acceleration	lower body negative pressure
·	electron acceleration	motion sickness
opacity	election acceleration	monori sicki icss

	physiological acceleration		validity		crash injuries
	transverse acceleration	aggent	nnaa.		crashes
	ation toloronos	accepta			destruction
	ation tolerance	USE	acceptability		disasters
SN	(LIMITED TO ABILITY OF ORGANISMS TO WITHSTAND ACCELERATIONFOR	accent	or materials		emergencies
	EFFECTS ON EQUIPMENT, USE SHOCK	GS	semiconductors (materials)		explosions
	RESISTANCE AND MECHANICAL SHOCK)	GS	. acceptor materials		fires
GS	tolerances (physiology)	RT	carrier density (solid state)		first aid
	acceleration tolerance	n i	electrons		hazards
RT	blackout (physiology)		holes (electron deficiencies)		industrial safety
	blackout prevention		o materials		injuries
	centrifuging stress		onlaterials		lessons learned
	gravitational effects	accass	control		sabotage
	gravity perception		Hardware or software features, operat-		safety
	high acceleration		cedures, or management procedures de-		safety devices traffic
	human centrifuges		to permit authorized access to a com-		
	human tolerances	puter s			wreckage
٥	o resistance		communication networks	analima	atization
			computer information security		The adjustments of a human body o
<ul><li>acceler</li></ul>			computer security		ganism to a new environment; the bodil
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		∘ control		s which tend to increase efficiency and
	LISTED BELOW)		data transmission		energy loss. Used for deacclimatization
DEF	Machines that ionize gases and elec-		firewalls (computers)	UF	deacclimatization
trically a	accelerate the ions onto targets.		intrusion detection (computers)	GS	adaptation
RT	accelerating agents		multiple access	ao	. acclimatization
۰	o acceleration		multiplexing		altitude acclimatization
	coaxial plasma accelerators		radio communication		cold acclimatization
	cyclic accelerators		telecommunication		heat acclimatization
	Cyclops plasma accelerator			RT	homeostasis
	electron accelerators	access	time		liquid breathing
	geocyclotrons	GS	time		stress (biology)
	Hall accelerators		. access time		stress (physiology)
	hypervelocity guns	RT	data processing		tolerances (physiology)
	ion accelerators		rates (per time)		tolerances (physiology)
	linear accelerators		time constant	accomi	modation
	mass drivers		time response	RT	
	Nimrod accelerator		transmission rate (communications)		correction
	particle accelerator targets		(11 1 11 11 11 11 11 11 11 11 11 11 11 1		eye (anatomy)
	particle accelerators	access	ories		focusing
	plasma accelerators	UF	attachments		visual accommodation
	racetracks (particle accelerators)	RT <	∘ components		vioual accommodation
	railgun accelerators		extensions	accomi	modation coefficient
	ram accelerators		fittings		The ratio of the average energy actu
	SEPAC (payload)		inserts		nsferred between a surface and imping
	storage rings (particle accelerators)		subassemblies		molecules which are scattered by the
	synchrophasotrons				to the average energy which would
	Van de Graaff accelerators	accide	nt investigation		cally be transferred if the impinging mol
		GS	investigation	ecules	reached complete thermal equilibrium
	ometers		. accident investigation		e surface before leaving the surface
	Transducers which measure accelera-		aircraft accident investigation	Used for	or thermal accommodation coefficients.
	gravitational forces capable of imparting	RT	accidents	UF	thermal accommodation coefficients
accelera			automobile accidents	GS	coefficients
GS	measuring instruments		lessons learned		. accommodation coefficient
	. accelerometers		wreckage	RT	heat transfer coefficients
	strain gage accelerometers				
RT	acceleration (physics)		nt prevention	accoun	
	acceleration measurement	UF	precautions	DEF	The practice and system of recording
	gravimeters	GS	prevention	and sur	mmarizing business and financial trans
	gravimetry		. accident prevention	actions,	, and reporting as well as verifying and
	gyroscopic pendulums	RT	accidents	analyzir	ng their results.
	mechanical measurement		aerospace safety	ŔŢ	budgeting
	pendulums		air bag restraint devices		costs
	seismographs		automobile accidents		finance
	shock measuring instruments		avoidance		
	speed indicators		fire prevention	accretic	
	speed indicators thrust measurement		fire prevention hazards		on deposition
	speed indicators thrust measurement velocity measurement		fire prevention hazards lessons learned	USE	deposition
	speed indicators thrust measurement		fire prevention hazards lessons learned protection	USE accretion	deposition on disks
	speed indicators thrust measurement velocity measurement vibration meters		fire prevention hazards lessons learned protection risk management	USE accretic DEF	deposition on disks Rotation disks of matter surrounding
accepta	speed indicators thrust measurement velocity measurement vibration meters ability		fire prevention hazards lessons learned protection risk management safety	use accretic DEF an astro	deposition  on disks  Rotation disks of matter surrounding conomical object, such as a star, galacti
UF	speed indicators thrust measurement velocity measurement vibration meters  ability acceptance		fire prevention hazards lessons learned protection risk management safety safety devices	use accretic DEF an astro nucleus	deposition  on disks  Rotation disks of matter surrounding onomical object, such as a star, galaction, black hole, etc., which is accumulated.
	speed indicators thrust measurement velocity measurement vibration meters  ability acceptance accelerated life tests		fire prevention hazards lessons learned protection risk management safety safety devices safety management	use accretic DEF an astro nucleus gravitati	deposition  on disks  Rotation disks of matter surrounding onomical object, such as a star, galaction, black hole, etc., which is accumulated ionally by the object.
UF	speed indicators thrust measurement velocity measurement vibration meters  ability acceptance accelerated life tests compatibility		fire prevention hazards lessons learned protection risk management safety safety devices safety management situational awareness	use accretic DEF an astro nucleus	deposition  on disks  Rotation disks of matter surrounding onomical object, such as a star, galaction, black hole, etc., which is accumulated innally by the object.  astrophysics
UF	speed indicators thrust measurement velocity measurement vibration meters  ability acceptance accelerated life tests compatibility evaluation		fire prevention hazards lessons learned protection risk management safety safety devices safety management situational awareness warning	use accretic DEF an astro nucleus gravitati	deposition  on disks  Rotation disks of matter surrounding onomical object, such as a star, galactis, black hole, etc., which is accumulated ionally by the object.  astrophysics binary stars
UF	speed indicators thrust measurement velocity measurement vibration meters  ability acceptance accelerated life tests compatibility evaluation examination		fire prevention hazards lessons learned protection risk management safety safety devices safety management situational awareness	use accretic DEF an astro nucleus gravitati	deposition  on disks  Rotation disks of matter surrounding onomical object, such as a star, galactic, black hole, etc., which is accumulated ionally by the object.  astrophysics binary stars black holes (astronomy)
UF	speed indicators thrust measurement velocity measurement vibration meters  ability acceptance accelerated life tests compatibility evaluation examination figure of merit		fire prevention hazards lessons learned protection risk management safety safety devices safety management situational awareness warning warning systems	use accretic DEF an astro nucleus gravitati	deposition  on disks  Rotation disks of matter surrounding phomical object, such as a star, galaction, black hole, etc., which is accumulated ionally by the object.  astrophysics binary stars black holes (astronomy) blazars
UF	speed indicators thrust measurement velocity measurement vibration meters  ability acceptance accelerated life tests compatibility evaluation examination figure of merit inspection		fire prevention hazards lessons learned protection risk management safety safety devices safety management situational awareness warning warning systems	use accretic DEF an astro nucleus gravitati	deposition  on disks  Rotation disks of matter surrounding promical object, such as a star, galaction, black hole, etc., which is accumulated in the surrophysics binary stars black holes (astronomy) blazars cooling flows (astrophysics)
UF	speed indicators thrust measurement velocity measurement vibration meters  ability acceptance accelerated life tests compatibility evaluation examination figure of merit inspection performance tests		fire prevention hazards lessons learned protection risk management safety safety devices safety management situational awareness warning warning systems  nt proneness safety devices	use accretic DEF an astro nucleus gravitati	deposition  on disks  Rotation disks of matter surrounding promical object, such as a star, galactic, black hole, etc., which is accumulated in astrophysics binary stars black holes (astronomy) blazars cooling flows (astrophysics) disks (shapes)
UF	speed indicators thrust measurement velocity measurement vibration meters  ability acceptance accelerated life tests compatibility evaluation examination figure of merit inspection performance tests proving		fire prevention hazards lessons learned protection risk management safety safety devices safety management situational awareness warning warning systems	use accretic DEF an astro nucleus gravitati	deposition  on disks  Rotation disks of matter surrounding on the comment of the
UF	speed indicators thrust measurement velocity measurement vibration meters  ability acceptance accelerated life tests compatibility evaluation examination figure of merit inspection performance tests proving quality control	RT	fire prevention hazards lessons learned protection risk management safety safety devices safety management situational awareness warning warning systems  ht proneness safety devices safety factors	use accretic DEF an astro nucleus gravitati	deposition  on disks  Rotation disks of matter surrounding promition object, such as a star, galactive, black hole, etc., which is accumulated in astrophysics binary stars black holes (astronomy) blazars cooling flows (astrophysics) disks (shapes) eclipsing binary stars galactic nuclei
UF	speed indicators thrust measurement velocity measurement vibration meters  ability acceptance accelerated life tests compatibility evaluation examination figure of merit inspection performance tests proving quality control rejection	RT accide	fire prevention hazards lessons learned protection risk management safety safety devices safety management situational awareness warning warning systems ht proneness safety devices safety factors	use accretic DEF an astro nucleus gravitati	deposition  on disks  Rotation disks of matter surrounding promical object, such as a star, galactic, black hole, etc., which is accumulated in accumulated in a strophysics binary stars black holes (astronomy) blazars cooling flows (astrophysics) disks (shapes) eclipsing binary stars galactic nuclei gravitational binding energy
UF	speed indicators thrust measurement velocity measurement vibration meters  ability acceptance accelerated life tests compatibility evaluation examination figure of merit inspection performance tests proving quality control rejection reliability	RT	fire prevention hazards lessons learned protection risk management safety safety devices safety management situational awareness warning warning systems nt proneness safety devices safety factors nts accidents	use accretic DEF an astro nucleus gravitati	deposition  on disks  Rotation disks of matter surrounding promical object, such as a star, galactic, black hole, etc., which is accumulated ionally by the object. astrophysics binary stars black holes (astronomy) blazars cooling flows (astrophysics) disks (shapes) eclipsing binary stars galactic nuclei gravitational binding energy protoplanetary disks
UF	speed indicators thrust measurement velocity measurement vibration meters  ability acceptance accelerated life tests compatibility evaluation examination figure of merit inspection performance tests proving quality control rejection reliability risk	RT accide	fire prevention hazards lessons learned protection risk management safety safety devices safety management situational awareness warning warning systems ht proneness safety devices safety factors hts accidents . aircraft accidents	use accretic DEF an astro nucleus gravitati	deposition  on disks  Rotation disks of matter surrounding a star, galactic, black hole, etc., which is accumulated ionally by the object. astrophysics binary stars black holes (astronomy) blazars cooling flows (astrophysics) disks (shapes) eclipsing binary stars galactic nuclei gravitational binding energy protoplanetary disks rotating disks
UF	speed indicators thrust measurement velocity measurement vibration meters  ability acceptance accelerated life tests compatibility evaluation examination figure of merit inspection performance tests proving quality control rejection reliability risk samples	RT accide	fire prevention hazards lessons learned protection risk management safety safety devices safety management situational awareness warning warning systems  ht proneness safety devices safety factors  hts accidents . aircraft accidents . bird-aircraft collisions	use accretic DEF an astro nucleus gravitati	deposition  on disks  Rotation disks of matter surrounding on disks  Rotation disks of matter surrounding on disks as a star, galactic, black hole, etc., which is accumulated on disks (shapes) black holes (astronomy) blazars cooling flows (astrophysics) disks (shapes) eclipsing binary stars galactic nuclei gravitational binding energy protoplanetary disks rotating disks stellar mass accretion
UF	speed indicators thrust measurement velocity measurement vibration meters  ability acceptance accelerated life tests compatibility evaluation examination figure of merit inspection performance tests proving quality control rejection reliability risk samples standards	RT accide	fire prevention hazards lessons learned protection risk management safety safety devices safety management situational awareness warning warning systems  ht proneness safety devices safety factors  hts accidents . aircraft accidents . bird-aircraft collisions . automobile accidents	use accretic DEF an astro nucleus gravitati	deposition  on disks  Rotation disks of matter surrounding promised object, such as a star, galactic, black hole, etc., which is accumulated in the surrounding stars black holes (astronomy) blazars cooling flows (astrophysics) disks (shapes) eclipsing binary stars galactic nuclei gravitational binding energy protoplanetary disks stellar mass accretion superhumps (astronomy)
UF RT	speed indicators thrust measurement velocity measurement vibration meters  ability acceptance accelerated life tests compatibility evaluation examination figure of merit inspection performance tests proving quality control rejection reliability risk samples standards suitability	RT <b>accide</b> GS	fire prevention hazards lessons learned protection risk management safety safety devices safety management situational awareness warning warning systems  nt proneness safety devices safety factors  nts  accidents . bird-aircraft collisions automobile accidents . loss of coolant	use accretic DEF an astro nucleus gravitati	deposition  on disks  Rotation disks of matter surrounding on disks  Rotation disks of matter surrounding on disks as a star, galactic, black hole, etc., which is accumulated on disks (shapes) black holes (astronomy) blazars cooling flows (astrophysics) disks (shapes) eclipsing binary stars galactic nuclei gravitational binding energy protoplanetary disks rotating disks stellar mass accretion
UF RT	speed indicators thrust measurement velocity measurement vibration meters  ability acceptance accelerated life tests compatibility evaluation examination figure of merit inspection performance tests proving quality control rejection reliability risk samples standards suitability • tests	RT <b>accide</b> GS	fire prevention hazards lessons learned protection risk management safety safety devices safety management situational awareness warning warning systems ht proneness safety devices safety factors hts accidents . aircraft accidents . bird-aircraft collisions . automobile accidents loss of coolant accident investigation	use accretic DEF an astro nucleus gravitat RT	deposition  on disks  Rotation disks of matter surrounding a commical object, such as a star, galactic, black hole, etc., which is accumulated in astrophysics binary stars black holes (astronomy) blazars cooling flows (astrophysics) disks (shapes) eclipsing binary stars galactic nuclei gravitational binding energy protoplanetary disks rotating disks stellar mass accretion superhumps (astronomy) x ray binaries
UF RT	speed indicators thrust measurement velocity measurement vibration meters  ability acceptance accelerated life tests compatibility evaluation examination figure of merit inspection performance tests proving quality control rejection reliability risk samples standards suitability	RT <b>accide</b> GS	fire prevention hazards lessons learned protection risk management safety safety devices safety management situational awareness warning warning systems  nt proneness safety devices safety factors  nts  accidents . bird-aircraft collisions automobile accidents . loss of coolant	use accretic DEF an astro nucleus gravitat RT	deposition  on disks  Rotation disks of matter surrounding promition object, such as a star, galactic, black hole, etc., which is accumulated in astrophysics binary stars black holes (astronomy) blazars cooling flows (astrophysics) disks (shapes) eclipsing binary stars galactic nuclei gravitational binding energy protoplanetary disks rotating disks stellar mass accretion superhumps (astronomy) x ray binaries

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

. nitriles

nitriles

. acetonitrile

organic compounds

nakhlites

shergottites .... SNC meteorites

... Norton County achondrite

6

energy efficiency as well as engine energy effi-

ciency consisting of engine component improve-

	ureilites		lipoic acid		transmission lines
RT	chondrites		oleic acid		
	iron meteorites		palmitic acid		detection
			propionic acid	USE	sound detecting and ranging
	se equilibrium		sebacic acid		
GS	chemical equilibrium		valeric acid	acousti	
	. acid base equilibrium		abscisic acid	GS	ducts
RT •	∞ equilibrium		folic acid		. acoustic ducts
	homeostasis		formhydroxamic acid	RT	grazing flow
	pH		formic acid		noise reduction
	pH factor		Hexogenes (trademark)		spatial marching
	stabilization		lactic acid		
	thermodynamic equilibrium		lysine		c emission
			nicotinic acid		The stress and pressure waves gener-
acid ra			oxalic acid		ing dynamic processes in materials and
	Low pH rainfall resulting from atmo-		oxamic acids	used in	assessing structural integrity in ma-
spheric	reactions of aerosols containing chlo-		tryptophan	chined p	parts.
rides ar	nd sulfates (or other negative ions).		. chromic acid	GS	emission
GS	precipitation (meteorology)		. cyanuric acid		. acoustic emission
	. rain		. cytidylic acid	RT	acoustic measurement
	acid rain		. hydrazoic acid		crack propagation
RT	air pollution		. hydrobromic acid		failure analysis
	atmospheric chemistry		. hydrochloric acid		fatigue testing machines
	atmospheric moisture		. hydrocyanic acid		nondestructive tests
	clouds (meteorology)		. hydrofluoric acid		stress waves
	dew		. nitric acid		
	meteorology		. nucleic acids	acousti	c excitation
	pH		deoxyribonucleic acid	DEF	The process of inducing vibration in a
	rainstorms		complementary DNA	structure	by exposure to sound waves.
	snow		ribonucleic acids	GS	excitation
	sulfur oxides		. indoleacetic acids		. wave excitation
	canar omaco		. oxidase		. acoustic excitation
acidity			. perchloric acid	RT	acoustic coupling
GS	chemical properties			• • • •	acoustic resonance
ao	. acidity		. phosphoric acid		acoustics
RT	hydrogen ions		. sulfonic acid		sound amplification
	ion concentration		. sulfuric acid		surface noise interactions
	pH		. thymidine		thermoacoustic effects
	titration		. thymine		memoacoustic effects
	unanon		. uric acid	acousti	c fatigue
acidosi			. uridylic acid	UF	sonic fatigue
DEF	Reduction of alkali reserves due to an		. xanthic acids	GS	fatigue (materials)
	of acid metabolites.	RT	adrenocorticotropin (ACTH)	do	. acoustic fatigue
RT	alkalosis		anhydrides	RT	acoustics
п			hydrogen compounds	n i	acoustics
	hyperventilation		inorganic compounds	acqueti	o fraguancias
	pH	c	oxygen compounds		c frequencies
	pH factor			UF	sound frequencies
	toxicity	acousti	c attenuation	GS	frequencies
		GS	attenuation		acoustic frequencies
acids		ao	. wave attenuation		audio frequencies
GS	acids		acoustic attenuation		quefrencies
	. amino acids				screech tones
	alanine	DT	shock wave attenuation	RT	acoustic measurement
	phenylalanine	H I	acoustic coupling		acoustic properties
	aspartic acid		acoustics		acoustic resonance
	cysteine		anechoic chambers		acoustics
	dopa		atmospheric attenuation		frequency ranges
	folic acid		bioacoustics		noise spectra
	glutamic acid		grazing flow		pressure oscillations
	glutamine		noise reduction		resonant frequencies
	glycine		sound amplification		sound waves
	hippuric acid		wave propagation		subaudible frequencies
	histidine		zero sound		ultrasonic radiation
	leucine				whispering gallery modes
	norleucine	acoustic	combustion		. 55 ,
	lysine		combustion stability	acoustic	generators
	melanoidin				sound generators
	methionine				3
	thyroxine		c coupling	acousti	c imaging
	tryptophan	,	ed September 1988)		ed February 1993)
	tyrosine	GS	coupling	,	imaging techniques
	. amobarbital		. acoustic coupling	ao	. acoustic imaging
	. ascorbic acid	RT	acoustic attenuation		acoustical holography
			acoustic excitation	RT	acoustic measurement
					accusing measurement
	. boric acids		acoustics		
	. butyric acid		acoustics energy transfer	111	acoustic scattering
	. butyric acid . carbonic acid			***	acoustic scattering nondestructive tests
	. butyric acid . carbonic acid . carboxylic acids		energy transfer	***	acoustic scattering
	butyric acid     carbonic acid     carboxylic acids     acrylic acid		energy transfer sound waves		acoustic scattering nondestructive tests ultrasonic flaw detection
	<ul> <li>butyric acid</li> <li>carbonic acid</li> <li>carboxylic acids</li> <li>acrylic acid</li> <li>alanine</li> </ul>		energy transfer sound waves wave interaction	acousti	acoustic scattering nondestructive tests ultrasonic flaw detection c impedance
	butyric acid     carbonic acid     carboxylic acids     acrylic acid     alanine     phenylalanine		energy transfer sound waves wave interaction c delay lines		acoustic scattering nondestructive tests ultrasonic flaw detection  c impedance acoustic properties
	butyric acid     carbonic acid     carboxylic acids     acrylic acid     alanine     phenylalanine     aspartic acid	DEF	energy transfer sound waves wave interaction  c delay lines Devices used in a communications link	acousti	acoustic scattering nondestructive tests ultrasonic flaw detection  c impedance acoustic properties . acoustic impedance
	butyric acid     carbonic acid     carboxylic acids     acrylic acid     alanine     penylalanine     aspartic acid     citric acid	DEF or a co	energy transfer sound waves wave interaction  c delay lines  Devices used in a communications link mputer memory in which the signal is	acousti	acoustic scattering nondestructive tests ultrasonic flaw detection  c impedance acoustic properties . acoustic impedance impedance
	butyric acid     carbonic acid     carboxylic acids     acrylic acid     alanine     phenylalanine     aspartic acid	DEF or a co delayed	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.	acousti	acoustic scattering nondestructive tests ultrasonic flaw detection  c impedance acoustic properties . acoustic impedance
	butyric acid     carbonic acid     carboxylic acids     acrylic acid     alanine     penylalanine     aspartic acid     citric acid	DEF or a co delayed	energy transfer sound waves wave interaction  c delay lines  Devices used in a communications link mputer memory in which the signal is	acousti	acoustic scattering nondestructive tests ultrasonic flaw detection  c impedance acoustic properties . acoustic impedance impedance
	<ul> <li>butyric acid</li> <li>carbonic acid</li> <li>carboxylic acids</li> <li>acrylic acid</li> <li>alanine</li> <li>phenylalanine</li> <li>aspartic acid</li> <li>citric acid</li> <li>dicarboxylic acids</li> </ul>	DEF or a co delayed	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.	<b>acousti</b> GS	acoustic scattering nondestructive tests ultrasonic flaw detection  c impedance acoustic properties . acoustic impedance impedance . acoustic impedance
	butyric acid carbonic acid carboxylic acids acrylic acid alanine phenylalanine aspartic acid citric acid dicarboxylic acids fatty acids	DEF or a co delayed Used fo	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.	<b>acousti</b> GS	acoustic scattering nondestructive tests ultrasonic flaw detection  c impedance acoustic properties . acoustic impedance impedance . acoustic impedance acoustic impedance acoustics
	butyric acid carbonic acid carboxylic acids acrylic acid alanine phenylalanine aspartic acid citric acid dicarboxylic acids atty acids acids acids acids	DEF or a co delayed Used fo UF	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	<b>acousti</b> GS	acoustic scattering nondestructive tests ultrasonic flaw detection  c impedance acoustic properties . acoustic impedance impedance . acoustic impedance acoustic impedance acoustics evanescent waves
	butyric acid carbonic acid carboxylic acids . acrylic acid . alanine . phenylalanine . aspartic acid . citric acid . dicarboxylic acids . fatty acids . acetic acid ethylenediaminetetraacetic acids	DEF or a co delayed Used fo UF	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	<b>acousti</b> GS RT	acoustic scattering nondestructive tests ultrasonic flaw detection  c impedance acoustic properties . acoustic impedance impedance . acoustic impedance acoustic impedance acoustics evanescent waves
	butyric acid carbonic acid carboxylic acids acylic acid alanine phenylalanine aspartic acid citric acid dicarboxylic acids fatty acids acetic acid cethylenediaminetetraacetic acids iodoacetic acid	DEF or a co delayed Used fo UF GS	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 delay lines computer storage devices	<b>acousti</b> GS RT	acoustic scattering nondestructive tests ultrasonic flaw detection  c impedance acoustic properties . acoustic impedance impedance . acoustic impedance acoustics evanescent waves grazing flow
	butyric acid carbonic acid carboxylic acids acrylic acid alanine phenylalanine aspartic acid citric acid dicarboxylic acids acetic acid citric acid acetic acid acetic acid acetic acid acetic acid acetic acid acetylsalicylic acid	DEF or a co delayed Used fo UF GS	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 delay lines	acousti GS RT acousti	acoustic scattering nondestructive tests ultrasonic flaw detection  c impedance acoustic properties . acoustic impedance impedance . acoustic impedance acoustics evanescent waves grazing flow c instability

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 visualization 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

 ∞ propagation whispering gallery modes

#### acoustic properties

#### GS acoustic properties

elastic waves

. 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) resonance GS

. 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

 $RT \, \infty \, barriers$ 

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

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 GS

# acoustics

. aeroacoustics

. computational aeroacoustics

. bioacoustics

electroacoustics

. geometrical acoustics

. magnetoacoustics

. microsonics . psychoacoustics

underwater acoustics 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

echoes effective perceived noise levels

elastic waves harmonic excitation harmonic generations harmonic oscillation

harmonics

earphones

hum infrasonic frequencies

Lamb waves Lame wave equations

	loudness		acriflavine	nobelium
	noise (sound)	RT	antiseptics	plutonium
	noise pollution		dyes	plutonium isotopes
	noise propagation		4,00	plutonium 238
	noise reduction	acrobat	ics (aircraft)	plutonium 239
	octaves	USE	aerobatics	plutonium 240
	opacity			plutonium 241
	phonetics	acroleii		plutonium 244
	power spectra	GS	aldehydes	sergenium
۰	science		acroleins	uranium
	simple harmonic motion	RT	toxicity and safety hazard	uranium isotopes
	sonic anemometers		-	uranium isotopes
	sound amplification	acronyn USE	abbreviations	uranium 233
	sound fields	USL	abbieviations	uranium 234
	sound propagation	ACRV		uranium 235
	sound transmission sound waves	USE	Assured Crew Return Vehicle	uranium 238
	speech	002	7.000.00	metals
	stereophonics	acrylate	es	. actinide series
	thermoacoustic effects	ĞS	esters	actinium
	ultrasonic cleaning		. acrylates	radium
	ultrasonic scanners	RT	resins	radium isotopes
	ultrasonics			radium 226
	verbal communication	acrylic		thorium
	vibration	GS	acids	thorium isotopes
	vibration damping		. carboxylic acids	transuranium elements
	voice communication		. acrylic acid	americium
	zero sound		organic compounds	americium isotopes
			. carboxylic acids acrylic acid	americium 241
	o-optics		aci yiic aciu	berkelium
RT	Bragg cells	acrylic	resins	californium
	crystal optics	UF	methacrylate resins	californium isotopes curium
	electro-optics geometrical optics	0.	polyacrylates	curium isotopes
	imagery	GS	plastics	curium 242
	light modulators		. synthetic resins	curium 244
	magneto-optics		addition resins	einsteinium
	optical properties		acrylic resins	fermium
	optical switching		resins	lawrencium
۰	optics		. synthetic resins	mendelevium
	photoacoustic microscopy		addition resins	neptunium
	photoacoustic spectroscopy		acrylic resins	neptunium isotopes
	thermoacoustic effects	RT	latex	nobelium
	tunable filters		polyacrylonitrile	nlutonium
	turiable intere			plutonium
			thermoplastic resins	plutonium isotopes
	Spacelab)	oondon	thermoplastic resins	plutonium isotopes
ACPL (	Spacelab) Atmospheric Cloud Physics Lab	acrylon	thermoplastic resins	plutonium isotopes plutonium 238 plutonium 239
	Spacelab)	ÚF	thermoplastic resins  itriles  vinyl cyanide	plutonium isotopes plutonium 238 plutonium 239 plutonium 240
USE	Spacelab) Atmospheric Cloud Physics Lab (Spacelab)		thermoplastic resins  itriles  vinyl cyanide  nitrogen compounds	plutonium isotopes plutonium 238 plutonium 239 plutonium 240 plutonium 241
USE	Spacelab) Atmospheric Cloud Physics Lab (Spacelab) d immunodeficiency syndrome	ÚF	thermoplastic resins  itriles  vinyl cyanide  nitrogen compounds  nitriles	plutonium isotopes plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244
acquire	Spacelab) Atmospheric Cloud Physics Lab (Spacelab) d immunodeficiency syndrome	ÚF	thermoplastic resins  itriles vinyl cyanide nitrogen compounds nitriles acrylonitriles	plutonium isotopes plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 sergenium
acquire (add	Spacelab) Atmospheric Cloud Physics Lab (Spacelab)  d immunodeficiency syndrome ad August 1991) A condition caused by the human im-	ÚF	thermoplastic resins  itriles  vinyl cyanide  nitrogen compounds  . nitriles  . acrylonitriles  . polyacrylonitrile	plutonium isotopes plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 sergenium uranium
acquire (add DEF munode	Atmospheric Cloud Physics Lab (Spacelab)  d immunodeficiency syndrome ed August 1991)  A condition caused by the human imficiency virus (HIV) attacking the human	ÚF	thermoplastic resins  itriles vinyl cyanide nitrogen compounds nitriles acrylonitriles	plutonium isotopes plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 sergenium uranium uranium isotopes
acquire (addo DEF munode body's	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	ÚF	thermoplastic resins  itriles  vinyl cyanide  nitrogen compounds  . nitriles  acrylonitriles  polyacrylonitrile  organic compounds	plutonium isotopes plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 sergenium uranium uranium 232
acquire (add DEF munode body's individu	Atmospheric Cloud Physics Lab (Spacelab)  d immunodeficiency syndrome ed August 1991)  A condition caused by the human imficiency virus (HIV) attacking the human	ÚF	thermoplastic resins  itriles  vinyl cyanide nitrogen compounds . nitriles . acrylonitriles polyacrylonitrile organic compounds . nitriles	plutonium isotopes plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 sergenium uranium uranium isotopes uranium 232 uranium 233
acquire (add DEF munode body's individu	Atmospheric Cloud Physics Lab (Spacelab)  d immunodeficiency syndrome and August 1991)  A condition caused by the human imficiency virus (HIV) attacking the human T-cells, thereby rendering an infected al defenseless against diseases.	ÚF	thermoplastic resins  itriles vinyl cyanide nitrogen compounds . nitriles . acrylonitriles polyacrylonitrile organic compounds . nitriles acrylonitriles acrylonitriles	plutonium isotopes plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 sergenium uranium uranium 232
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. . 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, excitation active satellites particularly that of the sun. Used for actinoflotation DEF Satellites which transmit a signal, in graphs and emissographs. initiation contrast to passive satellites. 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) 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 photodetectors nuclear bombardment. active sites (chemistry) . . . . microwave radiometers activation analysis (added August 2004) . neutron activation analysis . . . . Advanced Microwave Sounding DEF 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 binding sites activation energy RT activation (biology) . . . . spectroradiometers catalytic sites .... MISR (radiometry)
.... MODIS (radiometry) reactive centers binding energy 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 Spectrometer LISTED BELOW) .... ultraviolet spectrophotometers active control activity (biology) extravehicular activity . . 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 RT aeroservoelasticity actinomycetes aircraft control activity (biology) microorganisms UF 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 cycles activity cycles (biology) active galactic nuclei RT ∞ biology activated carbon galactic nuclei 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 extremely high frequencies granular and flocculent, and has an earthy odor . . . Markarian galaxies when fresh. microwave transmission sludge radio galaxies satellite communication GS activated sludge Seyfert galaxies active galactic nuclei RT biodegradation human wastes actuation activation blazars

galactic nuclei

galactic radiation

actuators

excitation

metabolic wastes

sewage

initiation deformable mirrors object-oriented programming 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 disks (shapes) GS 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) actuators DEF Atoms adsorbed on a solid surface. Adatoms and their associated properties are 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 RT adsorption atomic clusters 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 alter something so as to make it suitable for a instruments UF adders (circuits) microoptoelectromechanical systems 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 . . model reference adaptive control DEF The keeness of ability to detect and self adaptive control systems discriminate. restoration automata theory GS acuity autonomy . visual acuity addition resins ∞ 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 USE Explorer 24 satellite polyvinyl alcohol electric filters polyvinyl chloride synthesis (chemistry) electromagnetic wave filters Ada (programming language)  $\infty$  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

spheric perturbations and other system error

anisoplanatism

atmospheric optics computer techniques

sources

RT

additives

doping (additives).

DEF Materials or substances added to something else for a specific purpose. Used for

programming languageshigh level languages

... Ada (programming language) computer programming embedded computer systems

# addressing

	1 1 1 1 1 1 1 1 1		
UF	doping (additives)	adenosine diphosphate	interfacial energy
GS	additives		internal pressure
	. 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
	solid rocket binders	adenosine monophosphate	UF adherometers
RT o	agents	. nucleotides	Fokker bond testers
111 *		adenosines	
	alloying	adenosine monophosphate	
	antimisting fuels		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		RT adhesion
	high energy fuels	adenosine triphosphate	agglutination
	inhibitors	UF ATP	00
		GS organic compounds	bonded joints
	interstitials	9 1	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	Sealing
	preservatives	adenosines	adhasissa.
	·	adenosine triphosphate	adhesives
	retardants	phosphorus compounds	UF binders (adhesives)
	solvents		GS adhesives
	stabilizers (agents)	. phosphates	. glues
	suppressors	adenosine triphosphate	. pastes
	tetrahydrofuran	RT adenosine monophosphate	. tetraethyl orthosilicate
	thickeners (materials)	amino acids	RT agglutination
	traveling solvent method	myosins	alkyd resins
	vinyl copolymers		binders (materials)
	,,	adenosines	cements
address	sina	GS organic compounds	
	coding	. cyclic compounds	epoxy resins
111	computer programming	heterocyclic compounds	fasteners
	computer programming	adenosines	furan resins
	_		joints (junctions)
adducts		adenosine diphosphate	metal-metal bonding
	Chemical compounds with weak	adenosine monophosphate	phenolic epoxy resins
	e.g., occlusive or Van der Waal bonds.	adenosine triphosphate	plastic tapes
RT ∘	o chemical compounds	cyclic AMP	sealers
		. nucleotides	seams (joints)
Aden		adenosines	∞ tapes
USE	Southern Yemen	adenosine diphosphate	∞ tapes
		adenosine monophosphate	ADI
adenine	es	adenosine triphosphate	ADI methods
GS	bases (chemical)	cyclic AMP	USE alternating direction implicit
0.0	. adenines	RT oligonucleotides	methods
	organic compounds	HT Oligoriuoleotides	
	. carbohydrates	adamaai natri nhaanhataaa	adiabatic conditions
		adenosinetriphosphatase	GS conditions
	glucosides	(added August 2004)	. adiabatic conditions
	nucleosides	RT myosins	RT Carnot cycle
	adenines		
	. cyclic compounds	adenoviruses	compressing
	heterocyclic compounds	GS microorganisms	enthalpy
	purines	. viruses	environments
	adenines	adenoviruses	expansion
	. nucleotides		isentrope
	adenines	adenylic acid	isoenergetic processes
	phosphorus compounds	(added December 2004)	isothermal processes
	. phosphates	USE adenosine monophosphate	polytropic processes
		OOL adenosine monophosphate	temperature
БТ	adenines		thermal environments
RT	ribonucleic acids	adequacy	thermodynamic cycles
		RT quality	thermodynamic cycles thermodynamic equilibrium
	ine diphosphate	validity	inermodynamic equilibrium
UF	ADP		
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.
			RT magnetic cooling
	adenosine diphosphate	stiction	TTI magnetic cooling
	. nucleotides	RT adhesion tests	
	adenosines	adhesive bonding	adiabatic equations
	adenosine diphosphate	agglutination	RT ∞ equations
	phosphorus compounds	bonding	equations of state
	. phosphates	cold welding	heat transmission
	diphosphates	fusion (melting)	nonadiabatic theory
	· hh		

shock waves RT Jupiter (planet) water treatment adrenal gland adsorptivity adiabatic flow GS anatomy GS surface properties fluid flow GS . glands (anatomy) adsorptivity . adiabatic flow . . endocrine glands adsorption RT stagnation temperature . . adrenal gland chemical properties adrenocorticotropin (ACTH) chemisorption adipose tissues epinephrine ∞ physical properties GS tissues (biology) glucocorticoids . connective tissue adults adipose tissues adrenal metabolism (added August 2004) RT metabolism DEF A person having attained full growth or GS adrenal metabolism maturity. Adiprene (trademark) aldosterone RT children GS elastomers corticosteroids demography . rubber cortisone females . . synthetic rubbers hydroxycorticosteroid males . . . Adiprene (trademark) parents adrenaline populations Adirondack Mountains (NY) epinephrine USE youth landforms . mountains adrenergics Advanced Airborne Command Post . Adirondack Mountains (NY) sympathomimetics USE E-4A aircraft New York GS drugs adrenergics Advanced Communications Technology Sat adioints antiadrenergics USE ACTS GS algebra anticoagulants . vector spaces . . matrices (mathematics) cyclic AMP **Advanced Composition Explorer** (added December 1999) DEF Explorer spacecraft (launched August . adjoints adrenocorticotropin (ACTH) data processing **ACTH** 25, 1997) carrying six high-resolution sensors numerical analysis GS secretions and three monitoring instruments for sampling . endocrine secretions low-energy particles of solar origin and highenergy galactic particles. From a vantage point adjusting . . hormones adjustment ... pituitary hormones approximately 1/100 of the distance from the readjustment ... adrenocorticotropin (ACTH) Earth to the Sun, the Advanced Composition acids Explorer (ACE) can perform measurements RT alignment adrenal gland over a wide range of energy and nuclear mass, clearances under all solar wind flow conditions and during collimation amino acids correction proteins both large and small particle events including fitting focusing solar flares. When reporting space weather ACE **Adriatic Sea** can provide an advance warning of geomagleveling GS netic storms. matching . Mediterranean Sea ACE satellite . Adriatic Sea Explorer 71 satellite optical correction procedure artificial satellites Italy positioning . scientific satellites Yugoslavia revisions . . Explorer satellites ∞ setting ... Advanced Composition adsorbed atoms smoothing (added September 2002) **Explorer** RT energetic particles adatoms adjustment galactic cosmic rays ÚSE adjusting adsorbents interplanetary medium DEF Materials which take up gases by adsolar corpuscular radiation administration sorption solar cosmic rays USE management sorbents GS solar wind adsorbents space weather admittance absorbents USE electrical impedance Advanced EVA Protection Systems adsorption USE AEPS air conditioning equipment admixtures charcoal GS additives Advanced Launch System (STS) desiccants admixtures hemoperfusion (added October 1989) mixtures ALS (launch system) admixtures adsorption transportation RT accelerating agents The adhesion of a thin film of liquid or . space transportation catalysts gas to the surface of a solid substance. The solid . . space transportation system  $\infty$  combination does not combine chemically with the adsorbed ... Advanced Launch System concretes substance. (STS) formulations GS sorption heavy lift launch vehicles ingredients adsorption launch vehicle configurations mixers . chemisorption launch vehicles mortars (material) RT ∞ absorption NASA programs surfactants adatoms NASA space programs adsorbents payload delivery (STS) adobe flats adsorptivity reusable launch vehicles flats (landforms) USE beneficiation Shuttle Derived Vehicles bioavailability space shuttles ADP chromatography spacecraft design USE adenosine diphosphate concentrating desorption **Advanced Microwave Sounding Unit** Adrastea diffusion (added July 1997) (added January 1996) electrostatic precipitators A line-scan instrument on the Ad-A natural satellite of Jupiter orbiting at vanced TIROS-N (ATN) NOAA K-N series of elution a mean distance of 129,980 kilometers. gas chromatography operational meteorological satellites. The AMSU

gas-metal interactions

hydrophobicity

∞ separation

Gibbs adsorption equation

celestial bodies

. . . Adrastea

. natural satellites . . Jupiter satellites

GS

consists of two functionally independent units, AMSU-A and AMSU-B. The AMSU-A is de-

signed to measure scene radiance in 15 channels, ranging 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

RT atmospheric moisture atmospheric sounding atmospheric temperature Earth Observing System (EOS) microwave sounding NOAA satellites remote sensors

Advanced Orbiting Solar Observatory USE AOSO

satellite sounding

Advanced Range Instrumentation Aircraft

TIROS N series satellites

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

RTairborne equipment

 $\infty$  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

payloads

. Space Shuttle payloads

Advanced Technology Laboratory

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 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

agitation RTbeneficiation blowing

bubbles

corrosion prevention degassing dissolved gases dissolving entrainment mixers

mixing oxygenation purification  $\infty$  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

GS explosions

aerial explosions

RT blast loads

chemical explosions

nuclear explosions surface noise interactions . . split flaps thermonuclear explosions . . wing flaps aeroassist . . . leading edge flaps Changing orbit size by utilizing aeroleading edge slats aerial imagery braking, aerocapture, or aeromaneuvering.
RT aerobraking . . . trailing edge flaps USE aerial photography . vortex flaps aerocapture drag devices aeromaneuvering aerial photography . aerodynamic brakes aerial imagery atmospheric entry . . ballutes GS imagery interplanetary transfer orbits . . drag chutes . photography transfer orbits . . split flaps aerial photography . . wing flaps . . . leading edge flaps
. . leading edge slats
. . trailing edge flaps
. . vortex flaps astronomical photography aerobatics acrobatics (aircraft) UF change detection aerial acrobatics stunt flying cloud photographs cloud photography RT flight control color photography RT aircraft brakes Earth observations (from space) Earth Resources Survey aircraft formation flying control surfaces maneuvers flaperons forest fire detection geographic information systems flaps (control surfaces) parachutes Aerobee rocket vehicle gray scale ground truth GS rocket vehicles parafoils . sounding rockets
. Aerobee rocket vehicle retractable equipment ice mapping spoilers image motion compensation infrared photography aerobes aerodynamic buzz RT anaerobes orthophotography photogeology USÉ flutter bacteria microorganisms aerodynamic center photogrammetry sewage treatment USE aerodynamic balance photointerpretation photomapping aerobiology aerodynamic characteristics photomaps The study of the distribution of living aerodynamic characteristics pixels organisms freely suspended in the atmosphere. . aerodynamic balance plant stress air pollution aerodynamic drag rocket-borne photography airborne infection . . supersonic drag satellite-borne photography ∞ biology aerodynamic stability sea truth environment pollution interference drag spaceborne photography pollen stereophotography . . interference lift timber inventory aerobraking . . jet lift ultraviolet photography DEF Changing orbit size by using the upper atmosphere to create drag. . . rotor lift . . zero lift RT aeroassist aerial reconnaissance static aerodynamic characteristics aerocapture GS reconnaissance aerodynamic noise aeromaneuvering . aerial reconnaissance angle of attack interplanetary transfer orbits . . Airborne Integrated aspect ratio transfer orbits Reconnaissance System ∞ characteristics RT aeromagnetism cross flow aerocapture change detection dynamic characteristics DEF Making use of the atmosphere of a planet or planetary satellite by capturing the Earth Resources Survey aircraft engine airframe integration ground truth flight envelopes object and reducing the orbit size so that it induced drag HS-801 aircraft remains in orbit or lands on the body. rotor body interactions under surface blowing infrared radiometers RT aeroassist meteorological flight aerobraking unsteady aerodynamics upper surface blowing photoreconnaissance aeromaneuvering reconnaissance aircraft atmospheric entry reconnaissance spacecraft wind tunnel tests interplanetary transfer orbits thermal mapping transfer orbits unmanned aircraft systems aerodynamic chords USÉ airfoil profiles aerodontalgia chords (geometry) aerial rudders USE tooth diseases airfoils GS aerodynamic coefficients aerodynamic axis . aerial rudders Any nondimensional coefficients relat-USE aerodynamic balance control surfaces ing to aerodynamic forces or moments, such as . rudders a coefficient of drag, a coefficient of lift, etc. aerodynamic balance . . aerial rudders Used for lift coefficients. aerodynamic axis fins lift coefficients aerodynamic center horizontal tail surfaces coefficients GS drag balance marine rudders . aerodynamic coefficients trim (balance) stabilizers (fluid dynamics) RT ∞ drag coefficients aerodynamic characteristics GS tabs (control surfaces) flow coefficients aerodynamic balance tail assemblies flow distortion balance force distribution . aerodynamic balance aircraft stability aeroacoustics lift drag ratio pitching moments pressure distribution acoustics dynamic characteristics . aeroacoustics horizontal flight lift drag ratio mass distribution . computational aeroacoustics rolling moments aerodynamics yawing moments ∞ aeronautics spacecraft motion spacecraft stability aircraft noise aerodynamic configurations Ffowcs Williams-Hawkings equation static aerodynamic characteristics namic configurations
(LIMITED TO AERODYNAMIC VEHICLE
SHAPES--FOR LIFTING OR THRUSTING
SURFACES USE AIRFOILS)
aerodynamic configurations
body-wing and tail configurations
body-wing configurations
belonded-wing-body configurations flow noise turning flight grazing flow noise prediction (aircraft) propeller noise aerodynamic brakes

brakes (for arresting motion)
. aerodynamic brakes

. . ballutes

. . drag chutes

science

screech tones

space-time CE/SE method

aeroshells

# aerodynamic drag

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

	yaw	flutter analysis	transfer orbits
aerodyi	namic stalling	structural design	
RT	aircraft performance	wing oscillations	Aeromaneuvering Orbit to Orbit Shuttle
ΠI	aircraft spin		DEF Proposed reusable upper stage for the
	•	aeroelasticity	Space Shuttle superseded by the orbit transfer
	airspeed	DEF The study of the response of structur-	vehicle. Used for AMOOS.
	angle of attack boundary layer separation	ally elastic bodies to aerodynamic loads.	UF AMOOS
	lift drag ratio	GS mechanical properties	GS orbit transfer vehicles
	0	. elastic properties	
	low speed stability	aeroelasticity	. Aeromaneuvering Orbit to Orbit
	rotating stalls	aeroservoelasticity	Shuttle
0	stalling	aerothermoelasticity	RT Orbit Maneuvering Engine (Space
	sweep angle	RT aerodynamic noise	Shuttle)
	zero lift	aerodynamic stability	orbital mechanics
oorodur	amia vahialaa	aerodynamics	reusable launch vehicles
	amic vehicles aircraft	aerothermodynamics	space shuttles
USE	aliciali	aircraft structures	
aerodyi	namice	airfoil oscillations	aeronautical engineering
	The science that deals with the motion	DAST program	GS aerospace engineering
	nd other gaseous fluids, and the forces	flutter	. aeronautical engineering
	n bodies when the bodies move through	influence coefficient	RT aerodynamics
	ds, or when such fluids move against or	panel flutter	∞ aeronautics
	the bodies. Used for hydroaeromechan-	rigid wings	∞ aircraft
ics.	ile bodies. Osed for flydroaeromechan-	thermoelasticity	aircraft design
UF	hydroaeromechanics	unsteady aerodynamics	aircraft industry
GS	mechanics (physics)	wing loading	auxiliary propulsion
do	. fluid mechanics	0 0	compound helicopters
	fluid dynamics	aeroembolism	∞ engineering
		DEF The formation or liberation of gases in	functional design specifications
	gas dynamics	3 · · · · · · · · · · · · · · · · · · ·	
	aerodynamics	the blood vessels of the body, as brought on by	mechanical engineering propulsion
	aerothermodynamics	a too-rapid change from a high, or relatively	
	hypersonics	high, atmospheric pressure to a lower one.	structural engineering
	rotor aerodynamics	GS embolisms	
	supersonics	aeroembolism	aeronautical satellites
	unsteady aerodynamics	RT altitude sickness	
RT	aeroacoustics	decompression sickness	GS artificial satellites
	aerodynamic heating	fat embolisms	. communication satellites
	aerodynamic interference	stress (physiology)	. aeronautical satellites
	aeroelasticity		Aerosat satellites
	aeronautical engineering	aerogels	RT ∞ aeronautics
0	aeronautics	(added June 1990)	air traffic control
0	aerospace sciences	RT foams	aircraft approach spacing
~	aircraft	gels	aircraft communication
		90.0	
	airfoils	norous materials	ground-air-ground communication
_	airfoils blunt bodies	porous materials	ground-air-ground communication rescue operations
		silica gel	
	blunt bodies bodies of revolution	•	rescue operations
	blunt bodies bodies of revolution boundary layer control	silica gel xerogels	rescue operations
	blunt bodies bodies of revolution boundary layer control compressible flow	silica gel xerogels aerogyro helicopters	rescue operations
	blunt bodies bodies of revolution boundary layer control compressible flow control surfaces	silica gel xerogels	rescue operations satellite networks
	blunt bodies bodies of revolution boundary layer control compressible flow control surfaces drag	silica gel xerogels aerogyro helicopters	rescue operations satellite networks
۰	blunt bodies bodies of revolution boundary layer control compressible flow control surfaces drag dynamics	silica gel xerogels aerogyro helicopters USE XH-51 helicopter	rescue operations satellite networks
۰	blunt bodies bodies of revolution boundary layer control compressible flow control surfaces drag dynamics flight	silica gel xerogels  aerogyro helicopters USE XH-51 helicopter  aerology	rescue operations satellite networks   ∞ aeronautics  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  UF aviation
۰	blunt bodies bodies of revolution boundary layer control compressible flow control surfaces drag dynamics flight flight characteristics	silica gel xerogels  aerogyro helicopters USE XH-51 helicopter  aerology DEF The study of the free atmosphere	rescue operations satellite networks
0	blunt bodies bodies of revolution boundary layer control compressible flow control surfaces drag dynamics flight flight characteristics flight mechanics	silica gel xerogels  aerogyro helicopters USE XH-51 helicopter  aerology DEF The study of the free atmosphere throughout its vertical extent, as distinguished	rescue operations satellite networks   ∞ aeronautics  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  UF aviation  RT aeroacoustics aerodynamics
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aeroela DEF normal flutter. GS	blunt bodies bodies of revolution boundary layer control compressible flow control surfaces drag dynamics flight flight characteristics flight mechanics flow flow theory free wing aircraft ground effect (aerodynamics) hypersonic flight hypersonic flow incompressible flow inviscid flow laminar flow lift Mach number Mach-Zehnder interferometers reentry science slender bodies subsonic flow supersonic flow thermodynamics transonic flow uniform flow uniform flow unisteady flow viscous flow wind measurement wind tunnels  stic research wings Wings that are designed with less than stiffness to test devices that suppress airfoils . wings . aeroelastic research wings	aerogyro helicopters  USE XH-51 helicopter  aerology  DEF The study of the free atmosphere throughout its vertical extent, as distinguished from studies confined to the layer of the atmosphere adjacent to the Earth's surface.  GS meteorology . aerology RT Atmospheric & Oceanographic Inform Sys Global Atmospheric Research Program meteorological parameters polar meteorology sea breeze wind (meteorology)  aeromagnetism RT aerial reconnaissance geomagnetism magnetic surveys magnetic variations remote sensing  aeromagneto flutter USE flutter  aeromaneuvering DEF Changing orbit size or plane or both by entering the upper atmosphere to create drag or lift or both. RT aeroassist aerobraking aerocapture aeroshells	rescue operations satellite networks  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  UF aviation  RT aeroacoustics aerodynamics aeronautical engineering aeronautical satellites aerospace engineering aerospace sciences air law aircraft airports avionics civil aviation  of light general aviation aircraft human factors engineering military aviation science TACT program   aeronomy  DEF The study of the upper regions of the atmosphere where ionization, dissociation, and chemical reactions take place.  RT airglow Alpine meteorology atmospheric composition atmospheric physics auroras DIAL satellite field aligned currents flux transfer events geophysics magnetosphere-ionosphere coupling mesometeorology meteorology
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upper atmosphere RT air pollution vacuum Aitken nuclei Venus atmosphere aerophysics atmospheric effects atomizing aerospace industry USE atmospheric physics CALIPSO (Pathfinder satellite) GS industries . aerospace industry aeroquatic vehicles CloudSat aircraft design condensation nuclei . aircraft industry attack aircraft crop dusting RT ∞ aircraft commercial spacecraft ∞ military vehicles dust underwater propulsion space commercialization entrainment underwater vehicles environment pollution aerospace medicine environmental surveys DEF That branch of medicine dealing with the effects of flight through the atmosphere or in space upon the human body and with the prevention or cure of physiological or psychological multipations or size from these effects. AEROS satellite exhaust clouds GS artificial satellites fog dispersal . meteorological satellites . . AEROS satellite fumes gas atomization . synchronous satellites malfunctions arising from these effects. Glory Mission satellite AEROS satellite UF space medicine MISR (radiometry) medical science mist Aerosat satellites . aerospace medicine mixers GS artificial satellites . . aviation psychology particulates . communication satellites . space psychology photophoresis pollution transport . . aeronautical satellites acceleration stresses (physiology) Aerosat satellites aerosinusitis SAGE satellite . ESA satellites ∞ aerospace sciences smoke . Aerosat satellites altitude sickness smoke abatement . navigation satellites bioastronautics spraying . Aerosat satellites biofeedback thermophoresis . synchronous satellites ∞ biology Aerosat satellites biomedical data aerospace engineering ESA spacecraft Chlorella space systems engineering . ESA satellites closed ecological systems GS aerospace engineering . Aerosat satellites electrolyte metabolism aeronautical engineering European space programs fasting RT ∞ aeronautics satellite networks flight fatigue ∞ aerospace sciences fluid shifts (biology) gravitational physiology ∞ aircraft aeroservoelasticity ∞ engineering (added September 1993) gravity perception mechanical engineering UF ASE (aerodynamics) head down tilt missile design mechanical properties head movement structural engineering . elastic properties head up tilt . . aeroelasticity hindlimb suspension aerospace environments . . aeroservoelasticity ∞ medicine (EXCLUDES SPACECRAFT INTRAVEHICULAR ENVIRONMENTS) mobile quarantine facility motion sickness active control actuators UF space environment airfoil oscillations environments radiology . aerospace environments dynamic control ∞ science . . cislunar space space adaptation syndrome spacecraft environments dynamic response dynamic structural analysis . . deep space . . . interplanetary space flutter sports medicine servocontrol . . . interstellar space telemedicine . Earth orbital environments unsteady aerodynamics tilt-table test RT ∞ aerospace sciences weightlessness argon-oxygen atmospheres ∞ astronautics aeroshells (added May 1999) aerospace planes Aerodynamic structural shells that atbioastronautics GS aerospace vehicles aerospace veincies
. aerospace planes
. HOPE aerospace plane
. HOTOL launch vehicle
. VentureStar launch vehicle
. X-30 vehicle tach to, or comprise a portion of, the exterior of bioprocessing an aerospace vehicle or space probe; especially biosatellites such structures that support atmospheric entry, aerobraking, aeroassist, or hypersonic flight. cosmic rays Earth atmosphere aerodynamic configurations electromagnetic radiation aeroshells exobiology extraterrestrial environments X-37 vehicle aeromaneuvering . X-40A vehicle nose cones extraterrestrial life maneuverable spacecraft reentry vehicles extraterrestrial radiation . aerospace planes spacecraft design extravehicular activity . HOPE aerospace plane geophysical fluid flow cells HOTOL launch vehicle spacecraft shielding spacecraft structures hazardous material disposal (in VentureStar launch vehicle space) X-30 vehicle aerosinusitis helium-oxygen atmospheres X-37 vehicle diseases Jupiter atmosphere . X-40A vehicle GS . respiratory diseases life support systems reentry vehicles aerosinusitis lunar environment . recoverable spacecraft aerospace medicine manned space flight . . reusable spacecraft altitude sickness Mars atmosphere . . . aerospace planes Neptune atmosphere . . . . HOPE aerospace plane panspermia HOTOL launch vehicle DEF Dispersions of solid or liquid particles planetary environments .... VentureStar launch vehicle in gaseous media. radiation belts X-30 vehicle solar radiation . . . . X-37 vehicle GS mixtures . dispersions space exploration X-40A vehicle . . colloids space flight soft landing spacecraft ... aerosols space habitats aerospace planes space manufacturing . . HOPE aerospace plane . . . . fog . . liquid-gas mixtures space weather HOTOL launch vehicle . . . aerosols space weathering VentureStar launch vehicle spaceborne experiments X-30 vehicle . . foa particles spacecraft cabin simulators . . X-37 vehicle

thermal environments

Uranus atmosphere

X-40A vehicle

RT ∞ aircraft

. aerosols

. . fog

Astro vehicle . . aeroelasticity transatmospheric vehicles boostglide vehicles ... aerothermoelasticity . . thermoelasticity Buran space shuttle aerospike engines Delta Clipper (added July 1997) aerothermoelasticity Rocket engines incorporating a radial gliders hypersonic aircraft in-flow (aerospike) nozzle for altitude compenhypersonic gliders sation. Since the nozzle is open to the ambient DEF A rocket fuel consisting of a mixture of launch vehicles atmosphere, the plume compensates for dehydrazine and unsymmetrical dimethylhydrazine (UDMH). lifting reentry vehicles creasing atmospheric pressure as the vehicle liquid air cycle engines ascends. propellants military spacecraft GS . rocket propellants National Aerospace Plane Program . rocket engines . . liquid rocket propellants research aircraft . . aerospike engines . . aerozine nozzle design dimethylhydrazines rocket planes Saenger space transportation system plug nozzles hydrazines transatmospheric vehicles propulsion system configurations X-20 aircraft rocket engine design AFC (control) rocket exhaust USE automatic frequency control rocket nozzles aerospace safety DEF The engineering assessment and analysis of systems, subsystems, and functions AFCS (control system) spike nozzles VentureStar launch vehicle USE automatic flight control of spacecraft, missiles, advanced aircraft and ground support in order to identify hazards asaffects aerostatics USE effects sociated with such systems and to design procedures that eliminate those hazards or deter-GS statics aerostatics afferent nervous systems buoyancy mine tolerable safety levels. ∞ dynamics GS anatomy safetv ∞ equilibrium . nervous system aerospace safety afferent nervous systems fluid mechanics accident prevention hydrostatics sensorimotor performance aircraft safety ∞ systems flight safety aerostats range safety affinity USE airships runway incursions affinity GS safety factors . electron affinity aerothermochemistry safety management environmental chemistry negative electron affinity space weather aerothermochemistry attraction chemical compatibility thermochemistry ∞ aerospace sciences . aerothermochemistry compatibility (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) space sciences ablation aerodynamic heating Afghanistan aerothermodynamics GS nations aerodynamics ∞ aeronautics atmospheric chemistry chemical engineering ∞ chemistry Afghanistan RT Asia aerospace engineering aerospace environments AFM (microscopy) nozzle flow physical chemistry pyrometallurgy aerospace medicine USE atomic force microscopy aerospace systems astronomy reentry physics Africa Committee on Space Research GS continents reentry shielding environmental engineering extraterrestrial radiation Africa reentry vehicles African rift system International Space Year aerothermodynamics Algeria DEF The study of aerodynamic phenomena at sufficiently high gas velocities that thermodynamic properties of the gas are important.

GS mechanics (physics) space laboratories Angola Arcomsat aerospace systems Benin RT ∞ aerospace sciences Botswana control systems design Burkina . fluid mechanics missile systems . . fluid dynamics Burundi ∞ systems . . . gas dynamics Cameroon Cape Verde systems engineering . . . . aerodynamics Central African Republic ... aerothermodynamics aerospace technology transfer thermodynamics Chad DEF Technology transfer germane to aircraft and space vehicles, their propulsion, guid-Congo (Brazzaville) Cote d'Ivoire aerothermodynamics aerodynamic heat transfer ance, etc. aerodynamic heating Democratic Republic of Congo aeroelasticity Djibouti aerothermochemistry Egypt ASSET project Ethiopia boundary layer plasmas Gabon reports chemistry Gambia technological forecasting combustion physics Ghana technology utilization Guinea dynamics hypersonic heat transfer Kalahari Basin (Africa) aerospace vehicles hypersonic reentry Kenya DEF Vehicles capable of flight within and hypersonics Lesotho outside the sensible atmosphere. Rankine-Hugoniot relation Liberia GS aerospace vehicles reentry Libya . aerospace planes reentry physics Libyan desert . . HOPE aerospace plane Madagascar ∞ science . . HOTOL launch vehicle skin temperature (non-biological) Malawi VentureStar launch vehicle supersonics Mali X-30 vehicle thermoelasticity Mauritania . . X-37 vehicle Mauritius . X-40A vehicle aerothermoelasticity Middle East DEF The study of the response of elastic structures to the combined effects of aerody-. flexible spacecraft Morocco . X-43 vehicle Mozambique namic heating and loading.

GS mechanical properties Namibia RT ∞ aircraft commercial spacecraft nations

. elastic properties

GS

RT

SN

RT

∞ spacecraft

Niger

Nigeria . afterimages Thor Agena launch vehicle Red Sea critical flicker fusion Republic of South Africa ∞ agents illusions (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS Rwanda psychological effects SN Sahara Desert (Africa) sensory perception LISTED BELOW) Senegal visual perception accelerating agents Seychelles additives Sierra Leone AGB stars anticoagulants Somalia USE asymptotic giant branch stars antifouling Spanish Sahara antioxidants Sudan AGC (control) diluents Swaziland USE automatic gain control neutralizers Tanzania opacifiers Togo age determination oxidizers Tunisia penetrants USE chronology Uganda preservatives Zambia stabilizers (agents) age factor Zimbabwe surfactants RT aging (biology) gerontology African rift system agglomeration life span geological faults GS RT accumulations African rift system atomic clusters age hardening Africa cementation USE precipitation hardening ∞ systems clumps coagulation Agena A rocket vehicle afterbodies DEF Companion bodies that trail satellites. GS rocket vehicles compacting Sections or pieces of rockets or spacecraft that . single stage rocket vehicles concentrating . . Agena rocket vehicles enter the atmosphere unprotected behind nose crystallization cones or other bodies that are protected for . Agena A rocket vehicle densification entry. Afterparts of vehicles. Used for cylindrical Discoverer satellites flocculating afterbodies and sterns. Thor Agena launch vehicle galactic clusters cylindrical afterbodies lumping sterns aircraft structures Agena B Ranger Program metal clusters programs
. NASA programs micelles base heating boattails molecular clusters ... NASA space programs plugging ... Ranger project ∞ bodies precipitation (chemistry) centerbodies . . Agena B Ranger Program  $\infty$  separation conical bodies . projects settling cylindrical bodies . . Ranger project sintering . Agena B Ranger Program flared bodies Virgo galactic cluster forebodies . space programs skirts . . NASA space programs agglutination swing tail assemblies Ranger project bonding GS tail assemblies . Agena B Ranger Program . agglutination RT Thor Agena launch vehicle RT adhesion afterburners adhesive bonding USE afterburning Agena B rocket vehicle adhesives rocket vehicles cementation afterburning . single stage rocket vehicles chemical bonds Irregular burning of fuel left in the firing . . Agena rocket vehicles cohesion chamber of a rocket after cutoff. The function of Agena B rocket vehicle an afterburner, a device for augmenting the Discoverer satellites aggregates thrust of a jet engine by burning additional fuel in Echo satellites RT concrete structures the uncombined oxygen in the gases from the **EGO** concretes turbine. Used for afterburners. Gemini project ∞ construction materials afterburners Mariner program dolomite (mineral) GS combustion OAO gravels afterburning **POGO** lava RT burners Ranger project limestone exhaust systems micelles infrared suppression Agena C rocket vehicle rocks internal combustion engines GS rocket vehicles sands J-57 engine . single stage rocket vehicles slags jet engines . . Agena rocket vehicles thrust augmentation ... Agena C rocket vehicle ∞ aging (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) Agena D rocket vehicle Broad, high arches of radiance or glow rocket vehicles seen occasionally in the western sky above the aging (biology) . single stage rocket vehicles highest clouds in deepening twilight, caused by aging (materials) . . Agena rocket vehicles the scattering effect of very fine particles of dust aging (metallurgy) ... Agena D rocket vehicle suspended in the upper atmosphere. Also, the radioactive age determination transient decay of a plasma after the power has been turned off. Agena rocket vehicles aging (biology) GS afterglows rocket vehicles RT age factor . helium afterglow . single stage rocket vehicles ∞ aging oxygen afterglow . . Agena rocket vehicles ∞ biology atmospheric ionization geriatrics . . . Agena A rocket vehicle . . . Agena B rocket vehicle gerontology gas discharges ... Agena C rocket vehicle life sciences gas ionization Agena D rocket vehicle light scattering life span Atlas Agena B launch vehicle luminescence mortality Atlas Agena launch vehicles physiology phosphorescence Discoverer satellites plasma decay Echo satellites aging (materials) Swift observatory Gemini project aging (materials) GS

Mariner program

Ranger project

. aging (metallurgy)

 $RT \, \infty \, aging$ 

afterimages

images

GS

	hardening (materials)		halophiles	GS	attack aircraft
۰	o materials		hay		. AH-1G helicopter
	mechanical properties		hydrocarbon fuel production		V/STOL aircraft
	microstructure		hydroponics		. rotary wing aircraft
	strain hardening		irrigation		helicopters
	g		Large Area Crop Inventory		military helicopters
aging (	metallurgy)		Experiment		AH-1G helicopter
	aging (materials)		leguminous plants	RT «	∞ military aircraft
	. aging (metallurgy)		oats		minuty anoran
RT o	∘ aging		orchards		
	hardening (materials)		plant diseases	AH-1S	helicopter
	heat treatment		plant diseases	(ada	led April 1997)
	microstructure		planting	ĞS	attack aircraft
	solid solutions				. AH-1S helicopter
	strain hardening		plants (botany)		Bell aircraft
	supercooling		plowing		. AH-1S helicopter
	time temperature parameter		plows		V/STOL aircraft
	time temperature parameter		rural areas		. rotary wing aircraft
			rural land use		helicopters
agitatio			soil science		military helicopters
GS	agitation		sorghum		AH-1S helicopter
БТ	. ultrasonic agitation		sugar beets	RT /	∞ aircraft
RT	aeration		sugar cane		
	blowing		sunflowers	•	∞ military aircraft
	chemical reaction control		tomatoes		
	coalescing		tractors	AH-1W	helicopter
	colloiding		vegetation growth		led April 1997)
	dispersing		vineyards	UF	• •
	disposal			GS	
	homogenizing	AaRIS'	TARS project	do	
	mixers		A multiagency program utilizing Land-		. AH-1W helicopter
	mixing		note sensing data to predict crop yields,		Bell aircraft
	separation				. AH-1W helicopter
	settling		se, and detect pollution. Used for Crop		V/STOL aircraft
			ries by Remote Sensing.		. rotary wing aircraft
	shaking		Crop Inventories by Remote Sensing		helicopters
	sizing screens	GS	programs		military helicopters
	splashing		. projects		AH-1W helicopter
	suspending (mixing)		AgRISTARS project	RT «	∞ aircraft
	swirling	RT	agriculture		∞ military aircraft
	turbulent mixing		agrophysical units		,
	vortices		crop inventories		
	water treatment		farm crops	AH-63	helicopter
			fresh water	GS	attack aircraft
agreem	ents		land use		. AH-63 helicopter
RT	contracts		Landsat satellites		Bell aircraft
	conventions		meteorological satellites		. AH-63 helicopter
	insurance (contracts)		NASA programs		V/STOL aircraft
	subcontracts				. rotary wing aircraft
	Subcontracts		remote sensors		helicopters
anricult	tural aircraft		vegetative index		military helicopters
	Light aircraft specially equipped for ag-	!!			
	I applications such as crop dusting.	-	matology	DT	AH-63 helicopter
		GS	climatology	HI 4	∞ military aircraft
UF	Snow aerial applicator aircraft S-2B		agroclimatology		
	Snow S-2 aircraft	RT	agriculture	VH-64	helicopter
GS	general aviation aircraft		agrometeorology		attack aircraft
	agricultural aircraft		hydroclimatology	ao	. AH-64 helicopter
RT	agriculture		meteorological parameters		and the second second
۰	∘ aircraft		meteorology		Hughes aircraft
	AN-2 aircraft		microclimatology		. AH-64 helicopter
	crop dusting		•		V/STOL aircraft
	light aircraft	agrome	eteorology		. rotary wing aircraft
	swath width	GS	meteorology		helicopters
			. agrometeorology		military helicopters
agricult	ture	RT	agriculture		AH-64 helicopter
GS	agriculture	• • • • • • • • • • • • • • • • • • • •	agroclimatology	RT «	∞ military aircraft
	. aquiculture		hydrometeorology		
	. silviculture		micrometeorology	ماماء	
RT	agricultural aircraft		thermal resources	∞ aids	# 105 05 4 MODE OBSOISIO TERM 10
	AgRISTARS project		tropical meteorology	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS
	agroclimatology		tropical meteorology		LISTED BELOW)
	agrometeorology			RT	
	agrophysical units		ysical units		navigation aids
			Geographic areas defined for statisti-		visual aids
	alfalfa		poses by AgRISTARS personnel whose		vioual alab
	barley		ries are based on natural rather than		
۰	o biology		lines for the purpose of comparing simi-	AIDS (d	disease)
	botany	lar agri	cultural regions.		acquired immunodeficiency
	citrus trees	RT	agriculture		syndrome
	conservation		AgRISTARS project		· • · · · · · · · · · · · · · · · · · ·
	corn		farmlands		
	crop dusting		Large Area Crop Inventory	aileron	s
	crop growth		Experiment	GS	airfoils
	crop identification		Exponition	2.3	. ailerons
	crop inventories	AGT			flaperons
	•		automated quidoway transit		spoiler slot ailerons
	crop vigor	USE	automated guideway transit		
٥	o crops		vehicles		control surfaces
	farm crops		L. P L		. ailerons
	farmlands		helicopter		flaperons
	fruits		US Army designation for the Bell		spoiler slot ailerons
	genetically modified plants		209 Hueycobra attack helicopter pow-	RT	elevators (control surfaces)
	grasslands		a single Avco Lycoming T53-L-13 tur-		elevons
	Great Plains Corridor (North America)	boshaft	engine.		lateral control

	tabs (control surfaces)		turbojet engines	thermal insulation
			Bristol-Siddeley Olympus 593	∞ treatment
AIMP-1			engine	ventilation
USE	Explorer 33 satellite		Bristol-Siddeley Viper engine	
	•		ducted fan engines	air conditioning equipment
AIMP-2			J-33 engine	air conditioning equipment
USE	Explorer 35 satellite		J-34 engine	RT absorbents
OOL	Explorer 60 Satellite		9	absorbers (equipment)
4 IA 4 D. D			J-47 engine	adsorbents
AIMP-D			J-52 engine	blowers
USE	Explorer 33 satellite		J-57 engine	compressors
			J-58 engine	
AIMP-E			•	condensers (liquefiers)
			J-65 engine	coolers
USE	Explorer 35 satellite		J-69-T-25 engine	cooling systems
			J-71 engine	∞ diffusers
air			J-73 engine	
DEF	The mixture of gases comprising the		J-75 engine	∞ equipment
Farth's	atmosphere.			evaporators
GS	gases		J-79 engine	∞ fans
ao	•		J-85 engine	heat pumps
	. gas mixtures		J-93 engine	heating equipment
	air		RA-28 engine	
	alveolar air		turbofan engines	oxygen supply equipment
	compressed air			refrigerating machinery
	expired air		Bristol-Siddeley BS 53 engine	
	•		CF-700 engine	air conductivity
	high temperature air		convertible fan-shaft engines	
	liquid air		J-97 engine	RT atmospheric conductivity
	mixtures		TF-30 engine	electrical resistivity
	. solutions			thermal conductivity
			TF-34 engine	, , , , , , , , , , , , , , , , , , , ,
	gas mixtures		TF-41 engine	
	air		turboprop engines	air cooling
	alveolar air		T-34 engine	SN (COOLING WITH AIR)
	compressed air		T-38 engine	GS cooling
	expired air			. air cooling
	•		T-53 engine	RT coolants
	high temperature air		T-55 engine	
	liquid air		T-56 engine	coolers
RT	air data systems		T-63 engine	cooling systems
0	atmospheres			liquid cooling
	atmospheric composition		T-64 engine	refrigerating
			T-74 engine	
	Earth atmosphere		T-76 engine	ventilation
	environments		T-78 engine	
	middle atmosphere		turboramjet engines	air currents
	·	рт		GS fluid flow
air han	restraint devices	H I	air breathing boosters	
			pulse detonation engines	. gas flow
GS	bags		rocket-based combined-cycle engines	air flow
	. air bag restraint devices		, ,	air currents
	expandable structures			jet streams (meteorology)
	. inflatable structures	air car	jo	
	. inflatable structures			meridional flow
	air bag restraint devices	UF	air freight	
	air bag restraint devices safety devices		air freight cargo	meridional flow
	air bag restraint devices	UF	air freight cargo . air cargo	meridional flow vertical air currents RT atmospheric circulation
RT	air bag restraint devices safety devices . air bag restraint devices	UF GS	air freight cargo . air cargo . air mail	meridional flow vertical air currents RT atmospheric circulation barotropic flow
RT	air bag restraint devices safety devices . air bag restraint devices accident prevention	UF	air freight cargo . air cargo	meridional flow vertical air currents RT atmospheric circulation barotropic flow boundary layer flow
RT	air bag restraint devices safety devices . air bag restraint devices accident prevention accidents	UF GS	air freight cargo . air cargo . air mail	meridional flow vertical air currents RT atmospheric circulation barotropic flow boundary layer flow boundary layer transition
RT	air bag restraint devices safety devices . air bag restraint devices accident prevention accidents automobiles	UF GS	air freight cargo . air cargo . air mail airdrops airfield surface movements	meridional flow vertical air currents RT atmospheric circulation barotropic flow boundary layer flow boundary layer transition Brunt-Vaisala frequency
RT	air bag restraint devices safety devices . air bag restraint devices accident prevention accidents automobiles collisions	UF GS	air freight cargo . air cargo . air mail airdrops airfield surface movements airline operations	meridional flow vertical air currents RT atmospheric circulation barotropic flow boundary layer flow boundary layer transition
RT	air bag restraint devices safety devices . air bag restraint devices accident prevention accidents automobiles	UF GS	air freight cargo . air cargo . air mail airdrops airfield surface movements airline operations baggage	meridional flow vertical air currents RT atmospheric circulation barotropic flow boundary layer flow boundary layer transition Brunt-Vaisala frequency
	air bag restraint devices safety devices . air bag restraint devices accident prevention accidents automobiles collisions crashes	UF GS	air freight cargo . air cargo air mail airdrops airfield surface movements airline operations baggage cargo aircraft	meridional flow vertical air currents  RT atmospheric circulation barotropic flow boundary layer flow boundary layer transition Brunt-Vaisala frequency convection clouds convection currents
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wind tunnel tests	. air intakes	∞ locks
	engine inlets	pressure chambers
air defense	hypersonic inlets	seals (stoppers)
GS air defense . antimissile defense	inlet airframe configurations supersonic inlets	ala sa di
. SAGE air defense system	RT bypass ratio	<b>air mail</b> GS cargo
RT antiradiation missiles	conical inlets	. air cargo
Ballistic Missile Early Warning Sys	stem cowlings	air mail
camouflage	inlet nozzles	
civil defense deception	inlet temperature	air masses
∞ defense	internal compression inlets manifolds	DEF Large widespread volumes of air hav-
defense program	nacelles	ing particular characteristics of temperature and moisture content that were acquired at its
DMSP satellites	nose inlets	source region and are modified as they move
early warning systems	plenum chambers	away from their source.
electronic warfare jammers	scoops side inlets	RT anticyclones
optical countermeasures	superchargers	atmospheric circulation Brunt-Vaisala frequency
sabotage	supersonic diffusers	cold fronts
space surveillance (ground based		fronts (meteorology)
space surveillance (spaceborne) weapons delivery	ventilators ∞ water intakes	meteorology
weapons delivery	∞ water intakes	synoptic meteorology warm fronts
Air Density Explorer A	air jets	weather forecasting
USE Explorer 19 satellite	GS fluid flow	windpower utilization
Air Doneity/Injun Evalorer B	. jet flow	·
Air Density/Injun Explorer B USE Explorer 25 satellite	<b>air jets</b> fluid jets	air navigation
ase Express to entermit	. air jets	DEF The art, science, or action of plotting
air drop operations	RT gas flow	and directing the course of an aircraft through the air from one place to another.
RT bailout ballutes	gas jets	GS navigation
cargo	jet streams (meteorology)	. air navigation
delivery	∞ jets vapor jets	all-weather air navigation
free fall	vapor joto	area navigation
∞ operations	air land interactions	nap-of-the-earth navigation terrain following
parachutes	RT atmospheric boundary layer	RT astronavigation
parawings	atmospheric circulation Earth cryosphere	boresight error
air ducts	gas-solid interactions	celestial navigation
GS ducts	∞ interactions	celestial reference systems collision avoidance
. air ducts	land surface temperature	∞ control
RT annular ducts blowers	meteorology	dead reckoning
exhaust nozzles	air launching	digital navigation
∞ fans	GS launching	Doppler navigation
gas flow	air launching	flight instruments flight management systems
ventilators	RT multistage rocket vehicles	flight paths
air filters	Pegasus air-launched booster piggyback systems	flight plans
GS cleaners	X-34 reusable launch vehicle	flight rules
. air filters		formation flying
separators	air law	guidance (motion) hyperbolic navigation
. fluid filters <b>air filters</b>	DEF The body of domestic and/or interna- tional laws dealing with regulations and liabilities	inertial navigation
RT cooling systems	in civil or military aviation.	instrument flight rules
dust collectors	GS law (jurisprudence)	loran
∞ filters	international law	loran C Ioran D
precipitators	air law	National Airspace Utilization System
ventilation	RT ∞ aeronautics airspace	navigation aids
air flow	civil aviation	Omega Navigation System
GS fluid flow	conventions	polar navigation
. gas flow	insurance (contracts)	radar navigation radio navigation
<b>air flow</b> air currents	legal liability liabilities	Shoran
jet streams (meteorology)	∞ military aviation	solar compasses
meridional flow	National Airspace Utilization System	space navigation
vertical air currents	penalties	Tacan
RT aerodynamic interference	politics	VHF omnirange navigation visual flight
atmospheric boundary layer barotropic flow	public law regulations	vioudi ingri
Brunt-Vaisala frequency	space law	air piracy
compressible flow	·	UF hijacking
∞ currents	air locks	GS crime
duct geometry ducted flow	DEF A stoppage or diminution of flow in a fuel system, hydraulic system, or the like,	. <b>air piracy</b> RT aircraft safety
streamlining	caused by pockets of air or vapor. Also cham-	airport security
streams	bers capable of being hermetically sealed that	flight hazards
ventilation	provide for passage between two places of	flight safety
air freight	different pressure as between an altitude cham- ber and the outside atmosphere.	operational hazards terrorism
air freight USE air cargo	GS compartments	torronam
	. air locks	air pollution
air inlets	airlock modules	DEF The presence of unwanted material in
USE air intakes	RT doors	the air. The term "unwanted material" here
air intakes	egress enclosures	refers to material in sufficient concentrations, present for a sufficient time, and under circum-
UF air inlets	hatches	stances to interfere significantly with comfort,
GS intake systems	ingress (spacecraft passageway)	health, or welfare of persons, or with the full use
•		

# air purification

and eni	joyment of property. Used for atmo-	particulates	surface to air missiles
	impurities.	pollution control	surface to surface missiles
UF	atmospheric impurities	pollution monitoring	∞ surfaces
GS	pollution	volatile organic compounds	weapon systems
ao	. environment pollution	volatile organic compounds	weapon systems
	air pollution	air sampling	
	global air pollution	GS sampling	air traffic
	indoor air pollution	. air sampling	GS traffic
RT	acid rain	RT electrostatic precipitators	air traffic
111	aerobiology	environment pollution	RT aircraft hazards
	aerosols	gas analysis	airline operations
	ashes	Global Air Sampling Program	airspace
		indoor air pollution	collision avoidance
	atmospheric chemistry atmospheric composition	ozonesondes	flight hazards
		particulates	flight paths
	atmospheric density	smog	flight plans
	atmospheric effects	Sillog	National Airspace Utilization System
	biomass burning	air sea ice interactions	National Aviation System
	chlorofluorocarbons	GS gas-liquid interactions	
	chlorofluoromethane	. air water interactions	air traffic control
	clean energy		DEF A service operated by approriate au-
	climate change	air sea ice interactions	thority to promote the safe, orderly and expe-
	combustion products	RT ∞ interactions	dious flow of air traffic.
	contamination	polynyas	GS ground based control
	diffusion	sea ice	. air traffic control
	drops (liquids)	air ann interactions	
	dust	air sea interactions	automated en route ATC
	Earth atmosphere	USE air water interactions	radar approach control
	Earth environment	air ahawara	traffic control
	effluents	air showers	. air traffic control
	environment effects	(added August 1997)	automated en route ATC
	environment protection	USE cosmic ray showers	radar approach control
	environmental chemistry		RT aeronautical satellites
	environmental quality	air sickness	airborne radar approach
	environmental surveys	USE motion sickness	aircraft approach spacing
	environments		aircraft communication
		air slew missiles	aircraft guidance
	exhaust gases	DEF Solid propellant rockets utilizing thrust	aircraft safety
	exhaust systems	vector control.	airport surface detection equipment
	fallout	GS missiles	airport towers
	flue gases	. air slew missiles	airports
	fly ash	RT maneuverability	airspace
	forest fires	∞ rockets	·
	Global Air Sampling Program	solid propellant rocket engines	approach
	haze	thrust vector control	approach control
	human wastes		approach indicators
	metabolic wastes	air start	attitude control
	middle atmosphere	UF engine relight (in-flight)	automated pilot advisory system
	mixing height	in-flight starting	automated radar terminal system
	mutagens	GS starting	Beacon Collision Avoidance System
	nitrous acid	. air start	collision avoidance
	odors		collisions
	organic peroxides	RT aircraft control	∞ control
		aircraft engines	discrete address beacon system
	oxidizers	engine control	flight altitude
	ozone depletion	flight tests	flight control
	particles		flight management systems
	particulates	air to air missiles	flight paths
	photochemical oxidants	UF air to air rockets	flight plans
	pollen	GS missiles	flight rules
	pollution monitoring	. air to air missiles	flight safety
	pollution transport	Falcon missile	3
	polynuclear organic compounds	Matra missile	flight time
	smog	Sidewinder missiles	ground support equipment
	smoke	Sparrow missiles	ground-air-ground communication
	smoke abatement	Sparrow 2 missile	heliports
	soot	Sparrow 3 missile	instrument flight rules
	temperature inversions	RT antiaircraft missiles	instrument landing systems
	volatile organic compounds	ramiet missiles	landing
	waste disposal	SIAM missiles	landing aids
	wastes	space weapons	landing instruments
	wind (meteorology)	surface to air missiles	landing radar
	wind (meteorology)	Surface to all missiles	LOCATES system
		air to air refueling	microwave landing systems
	fication	GS refueling	midair collisions
GS	purification	. air to air refueling	military air facilities
	air purification	RT tanker aircraft	National Airspace System
RT	carbon dioxide concentration	iii tainoi allolait	National Airspace Utilization System
	carbon dioxide removal	air to air rockets	National Aviation System
	decontamination	USE air to air missiles	navigation aids
	electrostatic precipitators	OOL an to an inissues	∞ operations
	Hopcalite (trademark)	air to surface missiles	∞ operations radar navigation
	rebreathing		
	sterilization	GS missiles	radio navigation
	ventilation	. air to surface missiles	routes
	· · · · · · · · · · · · · · · · · · ·	Bullpup missiles	situational awareness
		Condor missile	solar compasses
air qual		Harpoon missile	surveillance radar
GS	quality	Hound Dog missile	takeoff
	environmental quality	Maverick missiles	taxiing
	air quality	quail missile	towers
RT	Earth atmosphere	Shrike missile	tracking (position)
	environments	RT miss distance	transponders
	indoor air pollution	ordnance	vortex advisory system
			<b>,</b> - <b>,</b> - <b>,</b>

vortex avoidance GS reconnaissance RT data processing . aerial reconnaissance flight management systems air traffic controllers (personnel) . . Airborne Integrated highly maneuverable aircraft personnel Reconnaissance System minicomputers air traffic controllers (personnel) ground truth onboard data processing airport towers photoreconnaissance spacecraft components ground based control spacecraft electronic equipment svstems landing aids targets systems integration traffic control airborne lasers Airbus air transportation GS onboard equipment USE **European Airbus** The conveyance of cargo and passenairborne lasers gers by means of airplanes, helicopters, and stimulated emission devices ∞ aircraft other airborne vehicles . lasers (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS GS transportation . airborne lasers LISTED BELOW)
aerodynamic vehicles air transportation laser applications airline operations laser ranger/tracker A-1 aircraft commercial aircraft remote sensors A-2 aircraft commuter aircraft spaceborne lasers A-3 aircraft compound helicopters A-4 aircraft general aviation aircraft airborne radar A-5 aircraft (added August 1992) marine transportation A-6 aircraft National Aviation System radar A-7 aircraft passenger aircraft . airborne radar A-9 aircraft rapid transit systems . airborne surveillance radar A-10 aircraft short haul aircraft airborne equipment A-37 aircraft transport aircraft clutter A-300 aircraft digital radar systems Doppler radar A-330 aircraft air water interactions A-340 aircraft air sea interactions radar echoes Advanced Range Instrumentation gas-liquid interactions radar equipment radar imagery Aircraft air water interactions radar maps aerodynamics . air sea ice interactions aeronautical engineering Atmospheric & Oceanographic Inform radar receivers Sys ∞ aeronautics radar targets Earth cryosphere remote sensing aerospace engineering el Nino aerospace industry remote sensors aerospace planes side-looking radar avres aerospace vehicles hydrological cycle space based radar agricultural aircraft space-time adaptive processing AH-1S helicopter synthetic aperture radar AH-1W helicopter liquid-vapor interfaces air data systems Madden-Julian Oscillation airborne radar approach aircraft accident investigation DEF The use of airborne radar for helicopter approach control -- the radar cursor technique. ocean dynamics aircraft accidents ocean models aircraft antennas sea surface temperature GS approach aircraft approach spacing airborne radar approach water tunnel tests aircraft brakes air traffic control aircraft carriers airborne equipment aircraft approach spacing aircraft communication onboard equipment helicopter control aircraft compartments airborne equipment helicopters aircraft configurations . . airborne/spaceborne computers landing aids aircraft construction materials . Light Airborne Multipurpose radar approach control aircraft control System aircraft design . . TERCOM
Advanced Range Instrumentation airborne range and orbit determination aircraft detection AROD (range-orbit determination) aircraft engines Aircraft GS orbit determination aircraft equipment aircraft fuel systems airborne radar . airborne range and orbit aircraft communication determination aircraft fuels aircraft guidance aircraft hazards aircraft equipment rangefinding Astroplane . airborne range and orbit automatic landing control determination aircraft hydraulic systems RT ∞ measurement aircraft industry aircraft instruments balloon-borne instruments orbits cockpit weather information systems aircraft lights ∞ electric equipment airborne surveillance radar aircraft maintenance ∞ equipment radar flight instruments . airborne radar aircraft maneuvers hydraulic equipment . . airborne surveillance radar aircraft noise Kuiper Airborne Observatory aircraft parts . surveillance radar . airborne surveillance radar aircraft performance map matching guidance MATTS (systems) aircraft pilots aircraft instruments aircraft production radar equipment display devices onboard equipment aircraft production costs radio equipment aircraft reliability SOFIA (airborne observatory) Airborne Warning and Control System aircraft runup vacuum arc switches USE AWACS aircraft aircraft safety aircraft specifications airborne infection diseases airborne/spaceborne computers aircraft spin GS aircraft stability . infectious diseases flight computers onboard computers aircraft structures . airborne infection aerobiology spacecraft computers aircraft survivability parasitic diseases GS data processing equipment aircraft tires aircraft wakes . computers Airborne Integrated Reconnaissance . . embedded computer systems airships System ... airborne/spaceborne Aladin 2 aircraft Alouette helicopters computers Aerial reconnaissance system incorporating various modes of detection. Used for AIRS (reconnaissance sys). onboard equipment Alpha jet aircraft amphibious aircraft

. airborne equipment

. . airborne/spaceborne computers

AIRS (reconnaissance sys)

AN-2 aircraft

AN-22 aircraft CL-84 aircraft GETOL aircraft AN-24 aircraft CL-600 challenger aircraft gliders antisubmarine warfare aircraft CL-823 aircraft ground effect machines COIN aircraft Antonov aircraft Grumman aircraft Comet 4 aircraft Gyrodyne aircraft Argosy MK-1 aircraft ASSET gliders commercial aircraft H-17 helicopter ATLIT project H-19 helicopter commuter aircraft ATR-72 aircraft compound helicopters H-43 helicopter attack aircraft Concorde aircraft H-53 helicopter AVRO 707 aircraft Curtiss-Wright aircraft H-54 helicopter AWACS aircraft CV-340 aircraft H-56 helicopter B-1 aircraft CV-440 aircraft H-60 Helicopter B-2 aircraft CV-880 aircraft H-126 aircraft B-26 aircraft CV-990 aircraft Hamburger aircraft B-47 aircraft D-558 aircraft Handley Page aircraft B-50 aircraft Dassault aircraft hang gliders DC 3 aircraft DC 7 aircraft Harrier aircraft B-52 aircraft B-57 aircraft Hawker Siddeley aircraft heavy lift helicopters B-58 aircraft DC 8 aircraft B-66 aircraft DC 9 aircraft Heinkel aircraft helicopters Helio aircraft HFB-320 aircraft DC 10 aircraft B-70 aircraft BAC 111 aircraft de Havilland aircraft BAC aircraft DH 112 aircraft HH-65 helicopter highly maneuverable aircraft balloons DH 115 aircraft Beagle aircraft Beech 99 aircraft DH 121 aircraft DH 125 aircraft Hiller aircraft DHC 2 aircraft Beechcraft 18 aircraft hovercraft ground effect machines Beechcraft aircraft
Bell 214A helicopter DHC 4 aircraft DHC 5 aircraft DO-27 aircraft HP-115 aircraft HS-748 aircraft Bell aircraft HS-801 aircraft DO-28 aircraft biplanes Hughes aircraft bird-aircraft collisions DO-31 aircraft hypersonic aircraft Boeing 707 aircraft Boeing 717 aircraft DO-328 aircraft hypersonic gliders 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 E-4A aircraft Ilyushin aircraft Boeing 757 aircraft Earth Resources Survey aircraft inflatable gliders Boeing 767 aircraft EH-101 helicopter Jaguar aircraft Boeing 777 aircraft Electra aircraft JAS-39 aircraft Boeing 2707 aircraft electronic aircraft jet aircraft Boeing aircraft European Airbus jet 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 F-8 aircraft Kaman aircraft Breguet 941 aircraft Kawasaki aircraft F-9 aircraft Brequet 1150 aircraft F-14 aircraft L-1011 aircraft Breguet aircraft L-2000 aircraft F-15 aircraft Lear jet aircraft Buccaneer aircraft F-16 aircraft lifting reentry vehicles light aircraft C-1A aircraft F-17 aircraft C-2 aircraft F-18 aircraft light helicopters C-5 aircraft F-22 aircraft light intratheater transport C-8A augmentor wing aircraft F-27 aircraft light transport aircraft
Ling-Temco-Vought aircraft
Lockheed aircraft
Lockheed model 18 aircraft F-28 transport aircraft C-9 aircraft C-15 aircraft C-17 aircraft F-84 aircraft F-86 aircraft C-33 aircraft F-89 aircraft C-35 aircraft F-94 aircraft F-100 aircraft ∞ low wing aircraft man powered aircraft C-46 aircraft C-47 aircraft C-54 aircraft F-101 aircraft F-102 aircraft Martin aircraft Mcdonnell aircraft F-104 aircraft F-105 aircraft C-118 aircraft McDonnell Douglas aircraft MD 11 aircraft C-119 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 C-133 aircraft fan in wing aircraft Mil aircraft C-135 aircraft FD 2 aircraft military air facilities C-140 aircraft Fiat aircraft ∞ military aircraft C-141 aircraft fighter aircraft military helicopters C-160 aircraft Firebee 2 target drone aircraft monoplanes Canadair aircraft flight test vehicles MRCA aircraft Canberra aircraft flying platforms multiengine vehicles Mystere 50 aircraft cargo aircraft Fokker aircraft ceiling (aircraft capability) Folding Fin aircraft rocket vehicle Navion aircraft Cessna 172 aircraft free wing aircraft night flights (aircraft) Cessna 205 aircraft FV-12A aircraft Nihon aircraft noise prediction (aircraft) Cessna 402B aircraft G-1 aircraft Cessna aircraft G-91 aircraft Nord 1500 aircraft Cessna L-19 aircraft G-95/4 aircraft Nord aircraft Chance-Vought aircraft G-222 aircraft North American aircraft Chinese aircraft GA-5 aircraft Northrop aircraft general aviation aircraft CL-41 aircraft nuclear propelled aircraft observation aircraft CL-44 aircraft General Dynamics aircraft

onboard equipment turbofan aircraft weather OV-1 aircraft turboprop aircraft aircraft antennas U-2 aircraft OV-10 aircraft U-10 aircraft GS antennas P-3 aircraft ultralight aircraft . aircraft antennas P-51 aircraft unidentified flying objects RT ∞ aircraft P-160 aircraft utility aircraft loop antennas P-166 aircraft V-22 aircraft microwave antennas P-308 aircraft V/STOL aircraft missile antennas P-1127 aircraft Valiant aircraft protuberances P-1154 aircraft Vampire MK 35 aircraft radar antennas PA-34 Seneca aircraft VATOL aircraft radio antennas passenger aircraft VC-10 aircraft PD-808 aircraft vertical takeoff aircraft aircraft approach spacing Piaggio aircraft Victor MK-1 aircraft spacing Piasecki aircraft Viscount aircraft . aircraft approach spacing pilotless aircraft VJ-101 aircraft aeronautical satellites Piper aircraft Vulcan aircraft air traffic control planetary aerial vehicles VZ-2 aircraft airborne radar approach Potez aircraft aircraft VZ-8 aircraft powered lift aircraft water takeoff and landing aircraft aircraft safety propulsion weapons delivery weather reconnaissance aircraft Weser aircraft airspace Questol aircraft approach reconnaissance aircraft remotely piloted vehicles Republic aircraft approach control Westland aircraft collision avoidance Westland ground effect machines Westland Whirlwind helicopter flight safety research aircraft glide paths rigid rotor helicopters ground based control wing nacelle configurations rocket planes instrument approach ∞ winged vehicles rotary wing aircraft rotor systems research aircraft National Airspace Utilization System National Aviation System X-1 aircraft X-2 aircraft Ryan aircraft vortex advisory system X-3 aircraft S-2 aircraft vortex avoidance X-5 aircraft S-3 aircraft X-13 aircraft S-61 helicopter S-67 helicopter aircraft bases X-14 aircraft USE military air facilities X-15 aircraft SA-321 helicopter SA-330 helicopter X-19 aircraft aircraft brakes X-20 aircraft Saab 37 aircraft GS brakes (for arresting motion)
. aircraft brakes X-21 aircraft Saab 105 aircraft X-21A aircraft . . split flaps Saab aircraft X-22 aircraft . . wing flaps
. . leading edge flaps
. . leading edge slats
. trailing edge flaps SC-1 aircraft X-22A aircraft SC-5 aircraft X-24 aircraft SC-7 aircraft X-29 aircraft Schleicher aircraft X-31 aircraft ... vortex flaps
RT aerodynamic brakes Scimitar aircraft X-36 aircraft SE-210 aircraft XC-142 aircraft short haul aircraft ∞ aircraft XV-3 aircraft antiskid devices ballutes drag chutes drag devices short takeoff aircraft XV-4 aircraft Siebel aircraft XV-5 aircraft Sikorsky aircraft XV-8A aircraft Sikorsky Whirlwind helicopter XV-9A aircraft single engine aircraft XV-11A aircraft thrust reversal solar powered aircraft spanloader aircraft XV-15 aircraft towed bodies wheel brakes Yak 40 aircraft SR-71 aircraft Yakovlev aircraft submersible aircraft aircraft cabins YC-14 aircraft ∞ subsonic aircraft USE aircraft compartments YF-12 aircraft Sud Aviation aircraft Sukhoi aircraft aircraft carriers supersonic aircraft GS surface vehicles aircraft accident investigation supersonic cruise aircraft research GS investigation aircraft carriers T-2 aircraft water vehicles . accident investigation T-28 aircraft T-33 aircraft . aircraft accident investigation . ships . . aircraft carriers RT ∞ aircraft  $RT \, \infty \, aircraft$ T-37 aircraft aviation meteorology T-38 aircraft insurance (contracts) arresting gear T-39 aircraft ∞ carriers TACT program military air facilities tailless aircraft aircraft accidents ∞ military aircraft tandem rotor helicopters GS accidents ∞ military vehicles tandem wing aircraft aircraft accidents tanker aircraft . bird-aircraft collisions nuclear powered ships target drone aircraft  $RT \, \infty \, aircraft$ test vehicles aircraft safety aircraft communication tilt rotor aircraft aviation meteorology DEF The conveyance of information to or Tilt Rotor Research Aircraft Program collisions from aircraft by radio or other signals. tilt wing aircraft crash landing GS communicating training aircraft crashes . aircraft communication transatmospheric vehicles crashworthiness telecommunication transport aircraft ditching (landing) . aircraft communication TS-11 aircraft emergency landing aeronautical satellites TSR-2 aircraft flight hazards air traffic control flight safety human factors engineering TU-104 aircraft airborne equipment TU-124 aircraft ∞ aircraft TU-134 aircraft insurance (contracts) approach control TU-144 aircraft malfunctions avionics TU-154 aircraft midair collisions ground-air-ground communication TU-204 aircraft pilot error radar beacons runway incursions Tupolev aircraft radio communication

wireless communication	ground based control	TF-41 engine
	in-flight simulation	variable cycle engines
aircraft compartments	lateral control	variable stream control engines
UF aircraft cabins aircraft interiors	longitudinal control	RT ACEE program
GS compartments	maneuverability manual control	air start ∞ aircraft
. aircraft compartments	minor circle turning flight	engine airframe integration
RT ∞ aircraft	pilot induced oscillation	gas turbine engines
bays (structural units)	radio control	hydrogen engines
cabin atmospheres	remote control	infrared suppression
∞ cabins	stability augmentation	internal combustion engines
cockpits gondolas	turbojet engine control visual control	jet engines jet propulsion
pressurized cabins	Visual Control	laser propulsion
windshields	aircraft design	nuclear propulsion
	DEF The act of conceiving and planning the	piston engines
aircraft configurations	structure, systems, and performance character-	∞ power supplies
UF fixed-wing aircraft GS aircraft configurations	istics of an aircraft vehicle or any other appara- tus, machine or contrivance intended to be	quiet engine program
. drooped airfoils	borne up either by dynamic action of the air upon	rocket engines rotary engines
RT aerodynamic configurations	the object's surfaces, or by the object's own	T-58 engine
aerodynamic interference	buoyancy.	topping cycle engines
∞ aircraft	GS aircraft design	turbine engines
blended-wing-body configurations	. helicopter design	Wankel engines
compound helicopters	RT acoustic retrofitting	alvareft agrifument
∞ configurations             control configured vehicles	aerodynamic configurations	aircraft equipment GS onboard equipment
flared bodies	aeroelastic research wings aeronautical engineering	. aircraft equipment
∞ flight vehicles	aeroquatic vehicles	bombing equipment
joined wings	∞ aircraft	ejection seats
	airfoils	flying ejection seats
missile configurations	blended-wing-body configurations	TERCOM
propulsion system configurations spacecraft configurations	channel wings	RT airborne equipment
under surface blowing	compound helicopters computer aided design	∞ aircraft aircraft hydraulic systems
upper surface blowing	control configured vehicles	aircraft lights
wing roots	DAST program	aircraft power supplies
•	∞ design	aircraft tires
aircraft construction	design optimization	automatic landing control
USE aircraft structures	engine airframe integration	automatic pilots
aircraft construction materials	engine design	avionics
DEF A general term designating the materi-	flight tests free wing aircraft	commonality display devices
als used in manufacturing an aircraft.	induced drag	∞ equipment
GS aircraft construction materials	lofting	flight instruments
. airframe materials	missile design	landing aids
RT ∞ aircraft	multidisciplinary design optimization	landing instruments
airframes	product development	Light Airborne Multipurpose System
aluminum-lithium alloys ceramic matrix composites	rotor systems research aircraft	navigation aids
composite materials	shape optimization short haul aircraft	navigation instruments radio direction finders
∞ construction materials	streamlining	radio direction finders
functionally gradient materials	structural design	aircraft fuel systems
fuselages	systems engineering	GS fuel systems
lithium alloys	Terminal Configured Vehicle Program	. aircraft fuel systems
∞ materials materials selection	transatmospheric vehicles	RT ∞ aircraft
plastic aircraft structures	vortex sheets weight reduction	fuel pumps fuel tank pressurization
skin (structural member)	YF-12 aircraft	fuel tanks
structural members	11-12 diloidit	fuel valves
wings	aircraft detection	∞ systems
	GS detection	
aircraft control  DEF To direct the movements of an aircraft	. aircraft detection	aircraft fuels GS fuels
with particular reference to changes in attitude	RT ∞ aircraft ∞ detectors	aircraft fuels
and speed.	F-117A aircraft	RT ∞ aircraft
UF flap control	IFF systems (identification)	antimisting fuels
GS aircraft control	infrared suppression	automobile fuels
. helicopter control	tracking (position)	hydrocarbon fuels
RT active control	A: (1.5 E(f. )	jet engine fuels
air start ∞ aircraft	Aircraft Energy Efficiency program	liquid fuels
attitude control	USE ACEE program	liquid rocket propellants monopropellants
automatic control	aircraft engines	slurry propellants
automatic flight control	UF aircraft power sources	solid propellants
∞ control	GS engines	tanker aircraft
control equipment	. aircraft engines	airereft guidenes
control simulation control stability	convertible fan-shaft engines helicopter engines	aircraft guidance GS guidance (motion)
control stability	J-52 engine	. aircraft guidance
controllability	J-58 engine	RT air traffic control
DAST program	J-97 engine	∞ aircraft
directional control	T-34 engine	approach control
engine control	T-38 engine	automated en route ATC
flight control	T-55 engine	collision avoidance
flight envelopes flight instruments	T-63 engine T-76 engine	∞ indicators instrument landing systems
fly by light control	T-76 engine	radar approach control
fly by tube control	TF-30 engine	radar approach control
fly by wire control	TF-34 engine	radarscopes

radio navigation	flight control	obstacle avoidance
airereft hangers	flight instruments	trajectory optimization
aircraft hangars USE hangars	flight paths flight test instruments	transition flight turning flight
oce nangaro	I2S cameras	X-31 aircraft
aircraft hazards	indicating instruments	
GS hazards	instrument approach	aircraft models
. aircraft hazards runway incursions	instrument landing systems	GS models
RT air traffic	∞ instruments landing aids	. <b>aircraft models</b> RT dynamic models
∞ aircraft	landing instruments	mathematical models
aircraft icing	laser altimeters	powered models
aviation meteorology	light emitting diodes	scale models
bird-aircraft collisions	∞ measurement	semispan models
birds collisions	measuring instruments	spacecraft models wind tunnel models
crash landing	monitors navigation aids	willa tariller models
crashes	navigation instruments	aircraft noise
flight hazards	position indicators	GS elastic waves
flight safety	radar	. sound waves
foreign bodies human factors engineering	radio altimeters	noise (sound) aircraft noise
malfunctions	recording instruments speed indicators	blade slap noise
midair collisions	tachometers	jet aircraft noise
noise (sound)		propeller noise
operational hazards	aircraft interiors	sonic booms
refueling threat evaluation	USE aircraft compartments	RT acoustic retrofitting
toxic hazards	aircraft landing	aeroacoustics aerodynamic noise
weather	GS landing	∞ aircraft
	. aircraft landing	coaxial nozzles
aircraft hydraulic systems	RT air cushion landing systems	engine noise
GS hydraulic equipment	all-weather landing systems	Ffowcs Williams-Hawkings equation
. aircraft hydraulic systems RT actuators	blind landing ceilings (meteorology)	footprints jet 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
aircraft icing	instrument landing systems landing aids	synchrophasing
(added August 1991)	landing mats	aircraft noise prediction
DEF Accumulation of ice on aircraft external	landing radar	USE noise prediction (aircraft)
surfaces, propellers and engine inlets from	low visibility	
freezing rain or flight through inclement weather.  UF wing icing	microwave landing systems	<b>aircraft parts</b> RT ∞ aircraft
UF wing icing GS ice formation	runway alignment soft landing	airfoils
. aircraft icing	spacecraft landing	airframes
RT aircraft hazards	touchdown	channel wings
aircraft safety	vertical landing	control surfaces
aviation meteorology	vortex avoidance	fuselages
deicers deicing	water landing	landing gear oblique wings
flight conditions	aircraft launching devices	protuberances
flight hazards	UF takeoff systems	swing tail assemblies
flight safety	GS launchers	swing wings
ice prevention	. aircraft launching devices	tail assemblies
aircraft industry	JATO engines RT catapults	wings
GS industries	RT catapults	aircraft performance
. aerospace industry		
aircraft industry	aircraft lights	DEF The manner or effectiveness with
RT aeronautical engineering	GS lighting equipment	which an aircraft vehicle or any airborne struc-
5 5	GS lighting equipment . luminaires	which an aircraft vehicle or any airborne struc- ture, machine, or contrivance functions while in
∞ aircraft	GS lighting equipment . luminaires aircraft lights	which an aircraft vehicle or any airborne struc- ture, machine, or contrivance functions while in operation.
5 5	GS lighting equipment . luminaires <b>aircraft lights</b> RT ∞ aircraft	which an aircraft vehicle or any airborne structure, machine, or contrivance functions while in operation.  GS aircraft performance
∞ aircraft aircraft production costs  aircraft instruments	GS lighting equipment . luminaires aircraft lights	which an aircraft vehicle or any airborne struc- ture, machine, or contrivance functions while in operation.
∞ aircraft aircraft production costs  aircraft instruments DEF Any electronic or mechanically-based	GS lighting equipment . luminaires aircraft lights RT ∞ aircraft aircraft equipment beacons	which an aircraft vehicle or any airborne structure, machine, or contrivance functions while in operation.  GS aircraft performance
∞ aircraft aircraft production costs  aircraft instruments DEF Any electronic or mechanically-based instrument or instrument system designed for	GS lighting equipment . luminaires aircraft lights RT ∞ aircraft aircraft equipment beacons  aircraft maintenance	which an aircraft vehicle or any airborne structure, machine, or contrivance functions while in operation.  GS aircraft performance
∞ aircraft aircraft production costs  aircraft instruments  DEF Any electronic or mechanically-based instrument or instrument system designed for detecting, measuring, displaying, recording,	GS lighting equipment . luminaires aircraft lights  RT ∞ aircraft aircraft equipment beacons  aircraft maintenance GS maintenance	which an aircraft vehicle or any airborne structure, machine, or contrivance functions while in operation.  GS aircraft performance
∞ aircraft aircraft production costs  aircraft instruments DEF Any electronic or mechanically-based instrument or instrument system designed for detecting, measuring, displaying, recording, telemetering, processing, or analyzing different	GS lighting equipment . luminaires aircraft lights  RT ∞ aircraft aircraft equipment beacons  aircraft maintenance GS maintenance . aircraft maintenance . aircraft maintenance	which an aircraft vehicle or any airborne structure, machine, or contrivance functions while in operation.  GS aircraft performance . helicopter performance  RT aerodynamic stalling  ∞ aircraft aircraft spin airspeed controllability
∞ aircraft aircraft production costs  aircraft instruments  DEF Any electronic or mechanically-based instrument or instrument system designed for detecting, measuring, displaying, recording,	GS lighting equipment . luminaires aircraft lights  RT ∞ aircraft aircraft equipment beacons  aircraft maintenance GS maintenance	which an aircraft vehicle or any airborne structure, machine, or contrivance functions while in operation.  GS aircraft performance
∞ aircraft aircraft production costs  aircraft instruments  DEF Any electronic or mechanically-based instrument or instrument system designed for detecting, measuring, displaying, recording, telemetering, processing, or analyzing different values or quantities encountered in the flight of an aircraft, often supporting the general control of the aircraft.	GS lighting equipment . luminaires aircraft lights  RT ∞ aircraft aircraft equipment beacons  aircraft maintenance GS maintenance . aircraft maintenance RT ∞ aircraft  RI ∞ aircraft	which an aircraft vehicle or any airborne structure, machine, or contrivance functions while in operation.  GS aircraft performance . helicopter performance  RT aerodynamic stalling  ∞ aircraft aircraft spin airspeed controllability Cooper-Harper ratings
∞ aircraft aircraft production costs  aircraft instruments  DEF Any electronic or mechanically-based instrument or instrument system designed for detecting, measuring, displaying, recording, telemetering, processing, or analyzing different values or quantities encountered in the flight of an aircraft; often supporting the general control of the aircraft.  GS aircraft instruments	GS lighting equipment . luminaires aircraft lights  RT ∞ aircraft aircraft equipment beacons  aircraft maintenance GS maintenance . aircraft maintenance RT ∞ aircraft checkout flight operations ground support equipment	which an aircraft vehicle or any airborne structure, machine, or contrivance functions while in operation.  GS aircraft performance . helicopter performance aerodynamic stalling aircraft aircraft spin airspeed controllability Cooper-Harper ratings distance flight characteristics flight envelopes
∞ aircraft     aircraft production costs  aircraft instruments     DEF Any electronic or mechanically-based instrument or instrument system designed for detecting, measuring, displaying, recording, telemetering, processing, or analyzing different values or quantities encountered in the flight of an aircraft; often supporting the general control of the aircraft.  GS aircraft instruments     . approach indicators	GS lighting equipment . luminaires aircraft lights  RT ∞ aircraft aircraft equipment beacons  aircraft maintenance  GS maintenance . aircraft maintenance  RT ∞ aircraft checkout flight operations ground support equipment logistics	which an aircraft vehicle or any airborne structure, machine, or contrivance functions while in operation.  GS aircraft performance . helicopter performance  RT aerodynamic stalling  ∞ aircraft aircraft spin airspeed controllability Cooper-Harper ratings distance flight characteristics flight envelopes maneuverability
∞ aircraft aircraft production costs  aircraft instruments  DEF Any electronic or mechanically-based instrument or instrument system designed for detecting, measuring, displaying, recording, telemetering, processing, or analyzing different values or quantities encountered in the flight of an aircraft; often supporting the general control of the aircraft.  GS aircraft instruments  . approach indicators  . automatic pilots	GS lighting equipment . luminaires aircraft lights  RT ∞ aircraft aircraft equipment beacons  aircraft maintenance GS maintenance . aircraft maintenance RT ∞ aircraft checkout flight operations ground support equipment	which an aircraft vehicle or any airborne structure, machine, or contrivance functions while in operation.  GS aircraft performance . helicopter performance  RT aerodynamic stalling  ∞ aircraft aircraft spin airspeed controllability Cooper-Harper ratings distance flight characteristics flight envelopes maneuverability minimum drag
∞ aircraft aircraft production costs  aircraft instruments  DEF Any electronic or mechanically-based instrument or instrument system designed for detecting, measuring, displaying, recording, telemetering, processing, or analyzing different values or quantities encountered in the flight of an aircraft; often supporting the general control of the aircraft.  GS aircraft instruments  . approach indicators  . automatic pilots  . flight recorders	GS lighting equipment . luminaires aircraft lights  RT ∞ aircraft aircraft equipment beacons  aircraft maintenance GS maintenance . aircraft maintenance  RT ∞ aircraft checkout flight operations ground support equipment logistics preventive maintenance	which an aircraft vehicle or any airborne structure, machine, or contrivance functions while in operation.  GS aircraft performance . helicopter performance aerodynamic stalling  ∞ aircraft aircraft spin airspeed controllability Cooper-Harper ratings distance flight characteristics flight envelopes maneuverability minimum drag payloads
∞ aircraft aircraft production costs  aircraft instruments DEF Any electronic or mechanically-based instrument or instrument system designed for detecting, measuring, displaying, recording, telemetering, processing, or analyzing different values or quantities encountered in the flight of an aircraft; often supporting the general control of the aircraft.  GS aircraft instruments . approach indicators . automatic pilots . flight recorders . flight load recorders . rate of climb indicators	GS lighting equipment . luminaires aircraft lights  RT ∞ aircraft aircraft equipment beacons  aircraft maintenance  GS maintenance . aircraft maintenance  RT ∞ aircraft checkout flight operations ground support equipment logistics	which an aircraft vehicle or any airborne structure, machine, or contrivance functions while in operation.  GS aircraft performance . helicopter performance  RT aerodynamic stalling  ∞ aircraft aircraft spin airspeed controllability Cooper-Harper ratings distance flight characteristics flight envelopes maneuverability minimum drag
∞ aircraft aircraft production costs  aircraft instruments  DEF Any electronic or mechanically-based instrument or instrument system designed for detecting, measuring, displaying, recording, telemetering, processing, or analyzing different values or quantities encountered in the flight of an aircraft; often supporting the general control of the aircraft.  GS aircraft instruments  . approach indicators  . automatic pilots  . flight recorders  . rate of climb indicators  RT airborne surveillance radar	GS lighting equipment . luminaires aircraft lights  RT ⇒ aircraft equipment beacons  aircraft maintenance  GS maintenance . aircraft maintenance  RT ⇒ aircraft checkout flight operations ground support equipment logistics preventive maintenance  aircraft maneuvers  GS maneuvers . aircraft maneuvers	which an aircraft vehicle or any airborne structure, machine, or contrivance functions while in operation.  GS aircraft performance . helicopter performance  RT aerodynamic stalling  ∞ aircraft aircraft spin airspeed controllability Cooper-Harper ratings distance flight characteristics flight envelopes maneuverability minimum drag payloads ∞ performance pilot performance pilot ratings
∞ aircraft aircraft production costs  aircraft instruments  DEF Any electronic or mechanically-based instrument or instrument system designed for detecting, measuring, displaying, recording, telemetering, processing, or analyzing different values or quantities encountered in the flight of an aircraft; often supporting the general control of the aircraft.  GS aircraft instruments  . approach indicators  . automatic pilots  . flight recorders  . flight load recorders  . rate of climb indicators  RT airborne surveillance radar  ∞ aircraft	GS lighting equipment . luminaires aircraft lights  RT ⇒ aircraft equipment beacons  aircraft maintenance GS maintenance . aircraft maintenance RT ⇒ aircraft checkout flight operations ground support equipment logistics preventive maintenance  aircraft maneuvers GS maneuvers . aircraft maneuvers RT ⇒ aircraft  Aircraft maneuvers  GS maneuvers . aircraft maneuvers  RT ⇒ aircraft	which an aircraft vehicle or any airborne structure, machine, or contrivance functions while in operation.  GS aircraft performance . helicopter performance aerodynamic stalling  ∞ aircraft aircraft spin airspeed controllability Cooper-Harper ratings distance flight characteristics flight envelopes maneuverability minimum drag payloads ∞ performance pilot performance pilot ratings specifications
∞ aircraft aircraft production costs  aircraft instruments  DEF Any electronic or mechanically-based instrument or instrument system designed for detecting, measuring, displaying, recording, telemetering, processing, or analyzing different values or quantities encountered in the flight of an aircraft; often supporting the general control of the aircraft.  GS aircraft instruments  . approach indicators  . automatic pilots  . flight recorders  . rate of climb indicators  RT airborne surveillance radar  ∞ aircraft altimeters	GS lighting equipment . luminaires aircraft lights  RT ∞ aircraft aircraft equipment beacons  aircraft maintenance GS maintenance . aircraft maintenance RT ∞ aircraft checkout flight operations ground support equipment logistics preventive maintenance  aircraft maneuvers GS maneuvers . aircraft maneuvers  RT ∞ aircraft approach control	which an aircraft vehicle or any airborne structure, machine, or contrivance functions while in operation.  GS aircraft performance . helicopter performance  RT aerodynamic stalling  ∞ aircraft aircraft spin airspeed controllability Cooper-Harper ratings distance flight characteristics flight envelopes maneuverability minimum drag payloads ∞ performance pilot performance pilot ratings
∞ aircraft aircraft production costs  aircraft instruments  DEF Any electronic or mechanically-based instrument or instrument system designed for detecting, measuring, displaying, recording, telemetering, processing, or analyzing different values or quantities encountered in the flight of an aircraft; often supporting the general control of the aircraft.  GS aircraft instruments  . approach indicators  . automatic pilots  . flight recorders  . rate of climb indicators  RT airborne surveillance radar  ∞ aircraft altimeters anemometers	GS lighting equipment . luminaires aircraft lights  RT ∞ aircraft aircraft equipment beacons  aircraft maintenance GS maintenance . aircraft maintenance RT ∞ aircraft checkout flight operations ground support equipment logistics preventive maintenance  aircraft maneuvers GS maneuvers . aircraft maneuvers  RT ∞ aircraft approach control flight characteristics	which an aircraft vehicle or any airborne structure, machine, or contrivance functions while in operation.  GS aircraft performance . helicopter performance RT aerodynamic stalling  ∞ aircraft aircraft spin airspeed controllability Cooper-Harper ratings distance flight characteristics flight envelopes maneuverability minimum drag payloads  ∞ performance pilot performance pilot ratings specifications takeoff runs
∞ aircraft aircraft production costs  aircraft instruments  DEF Any electronic or mechanically-based instrument or instrument system designed for detecting, measuring, displaying, recording, telemetering, processing, or analyzing different values or quantities encountered in the flight of an aircraft; often supporting the general control of the aircraft.  GS aircraft instruments  . approach indicators  . automatic pilots  . flight recorders  . rate of climb indicators  RT airborne surveillance radar  ∞ aircraft altimeters	GS lighting equipment . luminaires aircraft lights  RT ∞ aircraft aircraft equipment beacons  aircraft maintenance GS maintenance . aircraft maintenance RT ∞ aircraft checkout flight operations ground support equipment logistics preventive maintenance  aircraft maneuvers GS maneuvers . aircraft maneuvers  RT ∞ aircraft approach control	which an aircraft vehicle or any airborne structure, machine, or contrivance functions while in operation.  GS aircraft performance . helicopter performance aerodynamic stalling  ∞ aircraft aircraft spin airspeed controllability Cooper-Harper ratings distance flight characteristics flight envelopes maneuverability minimum drag payloads ∞ performance pilot performance pilot ratings specifications
ox aircraft aircraft production costs  aircraft instruments  DEF Any electronic or mechanically-based instrument or instrument system designed for detecting, measuring, displaying, recording, telemetering, processing, or analyzing different values or quantities encountered in the flight of an aircraft; often supporting the general control of the aircraft.  GS aircraft instruments  approach indicators  automatic pilots  flight recorders  flight load recorders  rate of climb indicators  airborne surveillance radar  aircraft altimeters anemometers attitude indicators automatic flight control avionics	GS lighting equipment . luminaires aircraft lights  RT ∞ aircraft aircraft equipment beacons  aircraft maintenance GS maintenance . aircraft maintenance RT ∞ aircraft checkout flight operations ground support equipment logistics preventive maintenance  aircraft maneuvers GS maneuvers . aircraft maneuvers  RT ∞ aircraft approach control flight characteristics flight paths formation flying	which an aircraft vehicle or any airborne structure, machine, or contrivance functions while in operation.  GS aircraft performance . helicopter performance aerodynamic stalling  o aircraft aircraft spin airspeed controllability Cooper-Harper ratings distance fliight characteristics flight envelopes maneuverability minimum drag payloads  operformance pilot performance pilot performance pilot ratings specifications takeoff runs  aircraft pilots  UF aviators copilots
∞ aircraft aircraft production costs  aircraft instruments  DEF Any electronic or mechanically-based instrument or instrument system designed for detecting, measuring, displaying, recording, telemetering, processing, or analyzing different values or quantities encountered in the flight of an aircraft; often supporting the general control of the aircraft.  GS aircraft instruments  . approach indicators  . automatic pilots  . flight recorders  . flight load recorders  . rate of climb indicators  RT airborne surveillance radar  ∞ aircraft altimeters  anemometers  attitude indicators  automatic flight control	GS lighting equipment . luminaires aircraft lights  RT ⇒ aircraft equipment beacons  aircraft maintenance  GS maintenance . aircraft maintenance  RT ⇒ aircraft checkout flight operations ground support equipment logistics preventive maintenance  aircraft maneuvers  GS maneuvers . aircraft maneuvers  RT ⇒ aircraft approach control flight oharacteristics flight envelopes flight paths	which an aircraft vehicle or any airborne structure, machine, or contrivance functions while in operation.  GS aircraft performance . helicopter performance RT aerodynamic stalling  ∞ aircraft aircraft spin airspeed controllability Cooper-Harper ratings distance flight characteristics flight envelopes maneuverability minimum drag payloads ∞ performance pilot performance pilot ratings specifications takeoff runs  aircraft pilots UF aviators

# aircraft power supplies

. flying personnel	aircraft icing	turning flight
pilots (personnel)	aircraft spin	upper surface blown flaps
aircraft pilots	all-weather landing systems	wind tunnel stability tests
test pilots	arresting gear	wing rock
. operators (personnel)	Beacon Collision Avoidance System	3
pilots (personnel)	collision avoidance	
aircraft pilots	collisions	aircraft structures
test pilots	crash landing	UF aircraft construction GS aircraft structures
RT ∞ aircraft	crashes	. airframes
aviation psychology	crashworthiness	. fuselages
flight crews	ejection seats	
∞ pilots	emergency landing	. plastic aircraft structures RT aerodynamic interference
	flight hazards	aeroelasticity
aircraft power sources	flight safety	afterbodies
USE aircraft engines	flying ejection seats	∞ aircraft
	landing aids	airfoils
aircraft power supplies	landing radar	boron-epoxy composites
DEF Electric power sources for the normal	microwave landing systems	canard configurations
operation of aircraft.	midair collisions	canopies
GS electric power supplies	National Airspace System	centerbodies
aircraft power supplies	navigation aids	channel wings
RT aircraft equipment	runway incursions	control surfaces
auxiliary power sources	safety devices	fairings
electric generators	solar compasses	forebodies
∞ power supplies	terrorism	hulls (structures)
aluanati ana dirattan	threat evaluation	interference fit
aircraft production	weather	leading edge flaps
UF <i>fuselage mounting</i> RT ∞ aircraft	wheel brakes	noses (forebodies)
		oblique wings
costs	aircraft specifications	pylon mounting
equipment specifications product development	GS specifications	shells (structural forms)
	. aircraft specifications	spacecraft structures
	RT ∞ aircraft	streamlining
production engineering	airspeed	∞ structures
aircraft production costs	ceiling (aircraft capability) controllability	swing tail assemblies
GS costs	distance	swing wings
. production costs		tail assemblies
aircraft production costs	flight characteristics payloads	wings
RT ∞ aircraft	payloads	
aircraft industry	aircraft spin	aircraft survivability
cost estimates	DEF A prolonged stall in fixed-wing aircraft	RT ∞ aircraft
efficiency	characterized by a sustained spiral descent,	combat
∞ engineering	usually with the nose down.	∞ construction materials
financial management	RT aerodynamic stalling	durability
industries	∞ aircraft	flight control
manufacturing	aircraft performance	helicopters
production engineering	aircraft safety	life (durability)
production management	control stability	∞ military aircraft
productivity	controllability	plastic aircraft structures
, ,	crash landing	reinforced plastics
aircraft reliability	flight hazards	reliability
UF airworthiness	flight safety	spacecraft survivability
airworthiness requirements	hazards	survival
GS reliability	maneuvers	survival equipment
. aircraft reliability	spin dynamics	vulnerability
RT ∞ aircraft		•
certification	aircraft stability	aircraft tires
circuit reliability	DEF The property of an aircraft to maintain	GS tires
component reliability	its attitude or to resist displacement, and if	. aircraft tires
helicopter performance	displaced, to develop forces and moments tend-	RT ∞ aircraft
quality control	ing to restore the original condition.	aircraft equipment
structural reliability	GS dynamic characteristics	landing gear
total quality management	. dynamic stability	vehicle wheels
vulnerability	motion stability	vernois witesis
aivavaft www.m	aircraft stability	
aircraft runup  DEF Final engine check prior to takeoff.	hovering stability	aircraft wakes
0 1	stability	GS wakes
- 9	. dynamic stability	aircraft wakes
. <b>aircraft runup</b> RT ∞ aircraft	motion stability aircraft stability	helicopter wakes
engine noise	•	slipstreams
engine noise engine tests	hovering stability RT aerodynamic balance	propeller slipstreams
ground tests	aerodynamic stability	RT ∞ aircraft
jet aircraft noise	∞ aircraft	hypersonic wakes
jet ailcraft floise	attitude stability	laminar wakes
aircraft safety	buffeting	supersonic wakes turbulent wakes
DEF Techniques used to prevent aircraft	control stability	
failures or accidents; the degree to which an	controllability	vortex advisory system vortex alleviation
aircraft is free of the risk of malfunction or	counterbalances	VUITEX AIIEVIALIUII
accidents.	directional stability	
GS safety	flight envelopes	aircrews
. aircraft safety	horizontal flight	USE flight crews
RT abort apparatus	lateral stability	
aerospace safety	liquid sloshing	airdrops
air piracy	longitudinal stability	RT air cargo
air traffic control	low speed stability	cargo
∞ aircraft	pilot induced oscillation	delivery
aircraft accidents	static stability	drag chutes
aircraft approach spacing	structural stability	parachutes
		r

	parafoils		. ailerons		body-wing configurations
			flaperons		camber
	surface movements		spoiler slot ailerons		control surfaces
RT	air cargo		. airfoil fences		deicers
	airports		. circulation control airfoils		deicing
	hangars materials handling		circulation control rotors		fins foils
	mobile lounges		. drooped airfoils	~	foils (materials)
	runway incursions		. elevators (control surfaces)		guide vanes
	runways		. elevons		hydrofoils
0	surfaces		. flaps (control surfaces)		interactional aerodynamics
	taxiing		externally blown flaps		jet vanes
			upper surface blown flaps		leading edge thrust
airfields			flaperons		leading edges
USE	airports		jet flaps split flaps		lift
airfail al	a a ra ata riatia a		wing flaps		lifting bodies
	naracteristics airfoils		leading edge flaps		Lighthill method
USL	allions		leading edge slats		monoplanes
airfoil f	ences		trailing edge flaps		rotor blades (turbomachinery)
GS	airfoils		vortex flaps		rotors
	. airfoil fences		horizontal tail surfaces		sharp leading edges
RT	boundary layer control		. laminar flow airfoils		stabilizers (fluid dynamics)
0	fences		. propeller blades		streamlined bodies
	vortex generators		. spoilers		streamlining
	wings		. supercritical airfoils		tail assemblies
			supercritical wings		thickness ratio
	scillations		. supersonic airfoils		trailing edges
DEF	Periodic motions experienced by air-		. tabs (control surfaces)		turbomachine blades
GS GS	aerodynamic conditions. oscillations		. thin airfoils thin wings		vanes
GS	. airfoil oscillations		infinite span wings		waveriders
	wing oscillations		. wings		wedges
	wing rock		aeroelastic research wings	a lufu a un a	- materials
RT	aerodynamic stability		cambered wings		e materials aircraft construction materials
	aeroelasticity		caret wings	ao	. airframe materials
	aeroservoelasticity		channel wings	RT	airframes
	flapping		cruciform wings		aluminum-lithium alloys
	flutter		fixed wings		composite materials
	flutter analysis		flexible wings	~	construction materials
	rotary stability		parawings		functionally gradient materials
	structural vibration		GAW-1 airfoil		glass fiber reinforced plastics
	undamped oscillations		GAW-2 airfoil	~	materials
	vibration		joined wings		materials selection
	vibration mode		low aspect ratio wings		structural design
oirfoil n	rofilos		delta wings		structural members
airfoil p	aerodynamic chords		trapezoidal wings mission adaptive wings	a i ufu a un a	
Oi	airfoil sections		oblique wings	airframe DEF	
	airfoil thickness		rigid wings		The assembled structural and aerody omponents 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		aircraft structures
	wing span		bearingless rotors		. airframes
RT	aerodynamic interference		rigid rotors		frames
	airfoils		tilting rotors		airframes
	blade tips		tip driven rotors	RT	aircraft construction materials
0	cross sections		x wing rotors		aircraft parts
	Joukowski transformation		slender wings		airframe materials
	Kutta-Joukowski condition		infinite span wings		bays (structural units)
	Lighthill method		supercritical wings		canopies
	nose tips		swept wings swept forward wings		control surfaces
	profiles shape optimization		trapezoidal wings		engine airframe integration
	streamlining		sweptback wings		fins fusciones
	supercritical airfoils		arrow wings		fuselages landing gear
	Theodorsen transformation		delta wings		missile bodies
	thickness		trapezoidal wings		missile structures
	thickness ratio		swing wings		nacelles
	thin airfoils		thin wings		protuberances
	thin wings		infinite span wings		tail assemblies
	tips		twisted wings		wing nacelle configurations
	wedges		uncambered wings		wings
	wing tips		ring wings		
			unswept wings	Airgeep	
airfoil se			infinite span wings	USE	VZ-8 aircraft
USE	airfoil profiles		rectangular wings		
-1.4-11 41-	later and		ring wings	airglow	The
airfoil th		ОТ	variable sweep wings		The quasi-steady radiant emission
USE	airfoil profiles	RT	aerodynamics		e upper atmosphere as distinguished sporadic emission of the auroras. Used
airfoils			aerodynamics aircraft design		sporadic emission of the auroras. Used spheric emission.
DEF	Structures, pieces, or bodies, originally		aircraft design	UF	atmospheric emission
	to foils or leaves in being wide and thin,		aircraft structures	GS	atmospheric radiation
	d to obtain a useful reaction on them-		airfoil profiles	<b>40</b>	. sky radiation
	n their motion through the air. Used for		aspect ratio		airglow
	naracteristics.		∘ blades		geocoronal emissions
UF	airfoil characteristics		blade-vortex interaction		nightglow
GS	airfoils		blunt leading edges		twilight glow
	. aerial rudders		blunt trailing edges		electromagnetic radiation

# airline operations

. light (visible radiation) ees, and visitors from injury, air piracy, and other flight paths . . sky radiation unauthorized acts. National Airspace System ... airglow National Airspace Utilization System security . . . . geocoronal emissions airport security . . . . nightglow RT air piracy airspeed . . . twilight glow airports GS rates (per time) aeronomy explosives detection airspeed atmospheric ionization ion mobility spectroscopy velocity auroras protection . airspeed chemiluminescence aerodynamic stalling aircraft performance Earth atmosphere vulnerability aircraft specifications emission Fabry-Perot spectrometers airport surface detection equipment boundary layer separation light emission ASDE flight characteristics night sky air traffic control ground speed oxygen spectra ∞ equipment high speed radiative recombination ground based control low speed Rayleigh scattering radar equipment Mach number runway incursions wind velocity sky brightness search radar ∞ surfaces airline operations airworthiness USE aircraft reliability air cargo surveillance radar RT air traffic airworthiness requirements air transportation airport towers USE aircraft reliability civil aviation GS towers commercial aircraft airport towers operating costs operational problems air traffic control Airy function air traffic controllers (personnel) GS analysis (mathematics) ∞ operations . complex variables airports ground based control Airy function passengers functions (mathematics) heliports short haul aircraft . Airy function landing aids cylindrical bodies airlock modules traffic control DEF Modular chambers capable of being hermetically sealed that provide for passage between two places of different pressure as between an altitude chamber and the outside differential equations elastic properties An area of land or water that is used, or harmonic functions intended to be used, for the landing and takoff of Poisson ratio aircraft, including buildings and facilities, if any.

UF airfields stress analysis atmosphere. compartments GS airports
. heliports . air locks GS DEF Microscopic particles in the atmo-. . airlock modules sphere which serve as condensation nuclei for RT ∞ aeronautics modules droplet growth during the rapid adiabatic expanairlock modules air traffic control sion produced by an Aitken dust counter. airfield surface movements Apollo applications program condensation nuclei multiple docking adapters airport security . Aitken nuclei Saturn 1 workshop airport towers aerosols Saturn 5 workshop ∞ facilities atmospheric chemistry Saturn workshops hangars atmospheric composition Skylab 1 instrument landing systems cloud physics Skylab 2 landing aids coagulation Skylab 3 landing mats military air facilities condensates Skylab 4 crystal growth Skylab program mobile lounges dust space station modules mooring ice nuclei National Airspace System spacecraft docking modules nucleation navigation aids airport beacons ∞ ports ∞ nuclei GS landing aids runways supercooling . airport beacons site selection . . discrete address beacon system AJ-10 engine ∞ strip navigation aids GS engines . beacons AIRS (reconnaissance sys) . rocket engines . . booster rocket engines . . airport beacons USE Airborne Integrated Reconnaissance System ... AJ-10 engine . . discrete address beacon system . . liquid propellant rocket engines radio beacons airships . AJ-10 engine solar compasses DEF Propelled and steerable dirigibles de-RT tartar missile pendent on gases for flotation. Used for aeroairport lights stats and dirigibles. AJ-1000 engine GS landing aids . airport lights UF aerostats USE M-1 engine dirigibles . runway lights lighting equipment . luminaires airships Akebono satellite heavy lift airships USE EXOS-D satellite . airport lights RT ∞ aircraft . . . runway lights searchlights balloons akermanite gondolas A mineral of the melilite group. It is inflatable structures isomorphous with gehlenite. GS calcium compounds airport planning ∞ military aircraft planning . calcium carbonates GS . airport planning . . akermanite The atmosphere above a particular . calcium oxides ground support equipment portion of the earth, usually defined by the . . akermanite heliports boundaries of an area on the surface projected land use carbon compounds perpendicularly upward. . carbonates sites air law . . calcium carbonates air traffic . . akermanite airport security Organization of trained security perair traffic control chalcogenides sonnel, surveillance and screening devices, and aircraft approach spacing . oxides

boundaries

collision avoidance

. . metal oxides

. . . alkaline earth oxides

procedures used for the protection of airport and

airline property, aircraft, passengers, employ-

	calcium oxides		optical properties		electrolyte metabolism
	akermanite		planetary radiation		•
	magnesium oxides		reflectance	alertnes	ss
	akermanite		solar radiation	RT	arousal
				nı	
	magnesium compounds		surface properties		attention
	. magnesium oxides				situational awareness
	akermanite	Alberta			wakefulness
	minerals	GS	nations		
		ao		Aloution	n Jolanda (UC)
	. akermanite		. Canada		n Islands (US)
RT	silicates		Alberta	GS	landforms
	silicon compounds				. islands
	silicon oxides	albinisr	n		Aleutian Islands (US)
	SIIICOTT OXIGES	GS		DT	
		us	diseases	וח	Alaska
Alabam	ia .		. albinism		archipelagoes
GS	nations	RT	pigments		island arcs
	. United States		skin (anatomy)		United States
			Skir (dridtorriy)		Office Otates
	Alabama				
RT	Gulf of Mexico	albumii	ns .	alexand	Irite
	Tennessee Valley (AL-KY-TN)	GS	biopolymers	(adde	ed November 1992)
	( =		. proteins		A transparent variety of chrysoberl that
A I = -1!	0 -:		albumins		
	2 aircraft				grass-green or emerald green color in
GS	transport aircraft		organic compounds	daylight	and wine-red to brownish-red color by
	. Aladin 2 aircraft		. proteins	transmit	ted or incandescent artificial light.
	V/STOL aircraft		albumins		aluminum compounds
		DT		ao	•
	. short takeoff aircraft	RT	elastin		. aluminum oxides
	Aladin 2 aircraft				alexandrite
RT ~	∘ aircraft	alcohola	ates		. beryl
111 0	with white	USE	alkoxides		
		USE	airONI459		alexandrite
Alais m	eteorite				beryllium compounds
GS	celestial bodies	alcohol	s		. beryl
	. meteorites	GS	hydroxyl compounds		alexandrite
		ao			
	stony meteorites		alcohols		. beryllium oxides
	carbonaceous meteorites		ethyl alcohol		alexandrite
	carbonaceous chondrites		glycols		chalcogenides
	Alais meteorite		isopropyl alcohol		•
					. oxides
	chondrites		methyl alcohol		metal oxides
	carbonaceous chondrites		phenols		alkaline earth oxides
	Alais meteorite		bisphenols		beryllium oxides
	Alais meleonie				•
			cresols		alexandrite
alanine			phloroglucinol		aluminum oxides
GS	acids		thymol		alexandrite
ao			polyvinyl alcohol		
	. amino acids				minerals
	alanine		triols		. beryl
	phenylalanine		cyanuric acid		. alexandrite
	. carboxylic acids	RT	alkoxides		silicon compounds
	alanine	• • • •	carbohydrates		
					. silicates
	phenylalanine		gasohol (fuel)		beryl
	organic compounds		glycerols		alexandrite
	. amino acids		hydroxyl radicals	DT	
				RT	laser materials
	alanine		methoxy systems		
	phenylalanine		organic compounds	alfalfa	
	. carboxylic acids		thiols	GS	farm crops
			unois	do	
	alanine				. alfalfa
	phenylalanine	aldehyd	des		plants (botany)
RT	proteins	DFF	Carbonyl groups to which a hydrogen		. alfalfa
n.	proteins		,	БТ	
			attached; the first stage of an alcohol; -	RT	
alarms		CHO.			blight
USE	warning systems	GS	aldehydes		botany
	J - y - · · · · · · ·		. acetaldehyde		
Aleelee			,		crop growth
Alaska			. acroleins		crop vigor
GS	nations		. chloral	cx	o crops
	. United States		. formaldehyde		
	Alaska	RT	•		curing
		H I	acetyl compounds		Earth resources
RT	Aleutian Islands (US)		furfuryl alcohol	~	o food
	Beaufort Sea (North America)		organic compounds		grasses
	Chena River Basin (AK)		retinene		irrigation
	` ,		Tetillelle		•
	Cook Inlet (AK)				seeds
	Gulf of Alaska	aldolas	e		
	Prince William Sound (AK)	GS	biopolymers	Alfven v	vavac
	, ,	ao			
	Wrangell Mountains (AK)		. proteins	USE	magnetohydrodynamic waves
			enzymes		
Albania	ì		aldolase	AlGaAs	
					aluminum mallium araamidaa
GS	nations		organic compounds	USE	aluminum gallium arsenides
	. Albania		. proteins		
RT	Europe		enzymes	algae	
	· *r =				Any plants of a group of unicellular and
			aldolase	DEF	Any plants of a group of unicellular and
albedo		RT	muscles		lular primitive organisms that include the
DEF	The ratio of the amount of electromag-				a, Scenedesmus, and other genera.
	diation reflected by a body to the amount	aldoste	rone		r algal bloom.
incident	upon it. It is often expressed as a	GS	organic compounds	UF	
	age, as, the albedo of the Earth is 34		. lipids		diatoms (unicellular plants)
			steroids	CO	
percent				GS	plants (botany)
GS	albedo		corticosteroids		. algae
	. cosmic ray albedo		aldosterone		blue green algae
	. Earth albedo		secretions		anabaena
	. lunar albedo		. endocrine secretions		Microcystis
RT	absorptance		hormones		Nostoc
					Chlorella
	cosmic rays		corticosteroids		
	Earth radiation budget experiment		aldosterone		Dunaliella
	MISR (radiometry)	RT	adrenal metabolism		porphyra

ОТ	scenedesmus		. programming languages		octanes
RT	biochemical oxygen demand bioconversion	RT	ALGOL computer programming		paraffins
	chlorophylls		machine oriented languages		pentanes
	Euglena		machine offerfice languages		neopentane
	lichens	Algol e	engine		propane
	marine biology	GS	engines		alkenes
	microorganisms		. rocket engines		butenes
	photosynthesis		booster rocket engines		ethylene
	phytoplankton		Algol engine		vinylidene
	plankton		. solid propellant rocket engines		hexenes
	plastids	DT	Algol engine		propylene
	thermophiles	RT	Blue Scout rocket vehicle		trienes
	thermophilic plants		Little Joe 2 launch vehicle Scout launch vehicle		alkynes
	water pollution		Scout laurion verilcie		acetylene
algal blo	nom	algorith	nmic oriented language		oxyacetylene
USE	algae		ALGOL		dienes butadiene
002	aiguo				heptadiene
algebra		algorit	hms		hexadiene
GS	algebra	DEF	Special mathematical procedures for		polybutadiene
	. binomial theorem		a particular type of problem.		carotenoids
	. current algebra	GS	mathematical logic	RT •	aliphatic compounds
	. determinants		algorithms		terpenes
	. group theory		. backpropagation (artificial		•
	homomorphisms		intelligence)	alkali h	alides
	automorphisms		genetic algorithms	GS	halogen compounds
	monoids		greedy algorithms		halides
	subgroups		parsing algorithms		metal halides
	. lie groups		simplex method		alkali halides
	spinor groups	ОТ	sorting algorithms		cesium halides
	. linear equations	RT	computer programming		cesium bromides
	Ffowcs Williams-Hawkings		computer programs computer systems programs		cesium fluorides
	equation		computerized simulation		cesium iodides
	linear evolution equations Riccati equation		conjugate gradient method		potassium iodides
	. Incan equation		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		netal compounds
	quadratic equations		mean square values	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS
	quartic equations		numerical analysis		LISTED BELOW)
	. polynomials		numerical differentiation	UF	Group 1A compounds
	binomials		parameterization	RT	cesium compounds
	dyadics		robustness (mathematics)	0	o chemical compounds
	Hermitian polynomial		state estimation		fullerides
	. tensors		systolic arrays		lithium compounds
	stress tensors			•	∘ metal compounds
	. vector spaces	alignm			potassium compounds
	Banach space	GS	alignment		rubidium compounds
	Hilbert space		. self alignment		sodium compounds
	Sobolev space	RT	adjusting		
	matrices (mathematics)		bearing (direction)	alkali m	
	adjoints		clearances		Metals in group IA of the periodic sys
	canonical forms		collimation		amely, lithium, sodium, potassium, ru
	eigenvalues		correction		cesium, and francium.
	eigenvectors		directivity fitting	GS	chemical elements
	Hessian matrices		horizontal orientation		. alkali metals
	Jordan form		instrument orientation		cesium
	stiffness matrix		look angles (electronics)		cesium isotopes cesium 133
	Stokes theorem (vector calculus)		∞ orientation		cesium 134
	U spin space vectors (mathematics)		ply orientation		cesium 137
	eigenvectors		polarization (spin alignment)		cesium 144
	state vectors		positioning		cesium vapor
	vorticity		vertical orientation		francium
RT	analysis (mathematics)				lithium
	o analyzing	∞ alipha	tic compounds		liquid lithium
	Boolean algebra	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		lithium isotopes
	coordinates		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		potassium
	functions (mathematics)	RT	aliphatic hydrocarbons		liquid potassium
	homotropy		amines		potassium isotopes
00	o mathematics		fatty acids		potassium 38
	Schwartz inequality		molecular chains		potassium 39
~	∘ science		organic compounds		potassium 40
	semiempirical equations	_			rubidium
~	∘ space		tic hydrocarbons		rubidium isotopes
	sums	GS	organic compounds		rubidium 86
	uniqueness theorem		. hydrocarbons		sodium
			aliphatic hydrocarbons		liquid sodium
Algeria			alkanes		sodium isotopes
GS	nations		butanes		sodium 22
	Algeria		cetane		sodium 24
RT	Africa		ethane		sodium vapor
A1 001			heptanes		metals
ALGOL			methane		. alkali metals
UF GS	algorithmic oriented language		nitropropane		cesium
us	languages		nonanes		cesium isotopes

	cesium 133		alkaline earth oxides		aliphatic hydrocarbons
	cesium 134		barium oxides		alkanes
	cesium 137		beryllium oxides		butanes
	cesium 144		alexandrite		cetane
	cesium vapor francium		calcium oxides akermanite		ethane heptanes
	lithium		magnesium oxides		methane
	liquid lithium		akermanite		nitropropane
	lithium isotopes		periclase		nonanes
	potassium	RT ∘	alkaline earth compounds		octanes
	liquid potassium		•		paraffins
	potassium isotopes	alkalini	•		ceresin
	potassium 38	DEF	The state of being alkaline.		pentanes
	potassium 39	RT	alkalies		neopentane
	potassium 40		bases (chemical) chemical analysis	DT	propane
	rubidium rubidium isotopes		chemical composition	RT	hydrocarbon fuels waxes
	rubidium 86		pH		waxes
	sodium		salinity	alkenes	•
	liquid sodium		soil sampling	UF	olefins
	sodium isotopes		water pollution	GS	organic compounds
	sodium 22		water quality		. hydrocarbons
	sodium 24		1.		aliphatic hydrocarbons
	sodium vapor	alkaloid			alkenes
RT	cesium alloys	GS	bases (chemical) . alkaloids		butenes
	metal vapors		. atropine		ethylene
alkali v	apor lamps		betaines		vinylidene
	Lamps in which light is produced by an		caffeine		hexenes
	discharge between electrodes in an al-		colchicine		propylene trienes
	or at low or high pressures.		ergotamine	RT	alkynes
GS	lighting equipment		hyoscine	111	oxetane polymers
	. luminaires		lysergine		terpenes
	flash lamps		morphine		The second secon
	alkali vapor lamps		nicotinamide	alkoxid	es
RT	lasers		nicotine	(add	ed January 1995)
	luminescence		pilocarpine	UF	alcoholates
	metal vapors		reserpine strychnine	GS	chalcogenides
	rare earth elements		tropyl compounds		. oxides
alkalies	3		nitrogen compounds	DT	alkoxides
UF	caustics		. alkaloids	RT	alcohols organometallic compounds
GS	bases (chemical)		atropine		sol-gel processes
	alkalies		. betaines		301 get processes
	lithium hydroxides		caffeine	alkyd re	esins
	potassium hydroxides		. colchicine	GS	resins
БТ	sodium hydroxides		ergotamine		. alkyd resins
RT	alkalinity		hyoscine	RT	adhesives
	carbonates		lysergine		protective coatings
	hydroxides		morphine nicotinamide		
alkaline	e batteries		nicotine	•	ompounds
GS	electric generators		pilocarpine	GS	alkyl compounds
	. direct power generators		reserpine		. alkylidene
	primary batteries		strychnine		. cetyl compounds
	alkaline batteries		tropyl compounds		. dibutyl compounds . hexyl compounds
	electrochemical cells		organic compounds		. isopropyl nitrate
	. electric batteries		. cyclic compounds		. methyl nitrate
	primary batteries alkaline batteries		heterocyclic compounds		. propyl nitrate
RT	storage batteries		alkaloids atropine		. tetrabutyls
	thermal batteries		betaines		. triethyl compounds
			caffeine		. trimethyl compounds
∞ alkalin	e earth compounds		colchicine	RT •	ochemical compounds
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		ergotamine		organic compounds
	LISTED BELOW)		hyoscine	alkylate	20
UF	Group 2A compounds		lysergine	GS	esters
RT	alkaline earth metals		morphine	do	. alkylates
	alkaline earth oxides		nicotinamide	RT	alkylation
	barium compounds		nicotine		anylanon
	beryllium compounds		pilocarpine	alkylati	on
	calcium compounds		reserpine strychnine	ÚF	oxyalkylation
0	∞ chemical compounds magnesium compounds		tropyl compounds	GS	chemical reactions
	strontium compounds	RT	curare		. alkylation
	strontium oxides		drugs	RT	alkylates
			marijuana		Friedel-Craft reaction
	e earth metals		quinoline		methylation
GS	chemical elements				refining
	alkaline earth metals	alkalos		alladfor	rocene
	barium isotopes	RT	acidosis	<b>alkylfer</b> GS	iron compounds
	metals		hyperventilation pH	43	. ferrocenes
	. alkaline earth metals barium isotopes		pH factor		alkylferrocene
RT ~	∴ barium isotopes ∞ alkaline earth compounds		toxicity		organometallic compounds
111 9	aa.iiio oarai oonipoundo				. ferrocenes
alkaline	e earth oxides	alkanes	•		alkylferrocene
GS	chalcogenides	UF	saturated hydrocarbons		
	. oxides	GS	organic compounds	alkylide	
	metal oxides		. hydrocarbons	GS	alkyl compounds

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

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

alpha decay

The radioactive transformation of a nu-

transmission . signal transmission

. . data transmission

alphabets

abbreviations

# alphanumeric characters

alphanumeric characters . . landing modules above the horizon. Also height, especially radial . . . lunar landing modules distance as measured above a given datum, as . . Altair Lunar Lander average sea level. languages symbols Ares 5 cargo launch vehicle GS altitude Constellation program . flight altitude alphanumeric characters lunar bases . high altitude DEF Characters in a set that contain both lunar exploration . low altitude . midaltitude letters and digits, but they usually also contain lunar landing other characters such as punctuation symbols. lunar logistics . sea level symbols RT altimeters . alphanumeric characters alteration altimetry USE revisions . . digits apexes . . binary digits . azimuth alphabets alternating current distance instruction sets (computers) AC (current) elevation light emitting diodes GS electric current elevation angle ∞ numbers alternating current height electricity position (location) . alternating current alphatrons GS measuring instruments current converters (AC to DC) altitude acclimatization
DEF A physiological adaptation to reduced . pressure gages direct current . . vacuum gages induction motors atmospheric and oxygen pressure. . . . ionization gages inverted converters (DC to AC) adaptation ... alphatrons voltage converters (AC to AC) . acclimatization vacuum apparatus . altitude acclimatization . vacuum gages
. . ionization gages alternating current generators RT mountain inhabitants USE AC generators . alphatrons altitude control alternating direction implicit methods alpha particles RT ∞ control ADI methods laser altimeters problem solving Alpine meteorology lateral control alternating direction implicit Wind, precipitation, atmospheric physlongitudinal control ics, and other climatological phenomena pecumethods spacing liar to the Alps and/or other similar mountainous differential equations numerical analysis areas altitude sickness
DEF In general, any sickness brought on by exposure to reduced oxygen tension and baro-GS meteorology
. Alpine meteorology partial differential equations RT alternations aeronomy metric pressure. GS variations clouds (meteorology) GS sicknesses . periodic variations nephanalysis altitude sickness . . alternations precipitation (meteorology) RT aeroembolism cycles storms (meteorology) aerosinusitis intervals weather aerospace medicine wind (meteorology) rhythm (biology) decompression sickness alternatives Alps Mountains (Europe) altitude simulation options landforms GS UF simulated altitude substitutes . mountains simulation GS variations . Alps Mountains (Europe) . environment simulation RT Austria . altitude simulation alternators (generators) Europe computerized simulation USE AC generators Italy flight simulation Switzerland high altitude environments altimeters West Germany hypobaric atmospheres DEF Instruments for measuring height landing simulation above a reference datum. ALS (launch system) space environment simulation GS measuring instruments USE Advanced Launch System (STS) thermal simulation . distance measuring equipment training devices altimeters AI SEE vacuum chambers . . . laser altimeters USE **Apollo Lunar Surface Experiments** . . . radio altimeters aircraft instruments Package altitude tests RT GS altitude tests Altair engine altimetry . high altitude tests USE X-248 engine altitude RT engine tests approach indicators flight tests Altair Lunar Lander astrolabes full scale tests (added November 2008) barometers high altitude environments DEF The lunar landing module of the Conflight instruments test vehicles stellation program. The lander is capable of hypsometers ∞ tests landing four astronauts on the moon, providing landing instruments life support and a base for weeklong initial navigation aids altitude tolerance surface exploration missions, and returning the navigation instruments GS tolerances (physiology) crew to the Orion spacecraft that will return them position indicators altitude tolerance range finders high altitude breathing lunar spacecraft rate of climb indicators high altitude environments . lunar landing modules satellite altimetry high altitude pressure . Altair Lunar Lander hypobaric atmospheres manned spacecraft altimetry low pressure . Altair Lunar Lander GS altimetry satellite altimetry modules . spacecraft modules altimeters ALU (computer components) USE arithmetic and logic units . . landing modules altitude ... lunar landing modules elevation . Altair Lunar Lander aeodesv alum soft landing spacecraft aluminum compounds aeoids GS

radar measurement

DEF In astronomy, angular displacement

topography

altitude

. alum

. alum

. sulfates

potassium compounds

sulfur compounds

. landing modules

. . lunar landing modules . . . Altair Lunar Lander

spacecraft components

. spacecraft modules

# aluminum gallium arsenides

. . alum

alumina

USE aluminum oxides

### aluminates

GS aluminum compounds

aluminates

RT aluminum oxides

oxygen compounds

spinel

### aluminides

Intermetallic compounds of aluminum and a transition metal.

GS aluminum compounds

. aluminides

. . iron aluminides

. . nickel aluminides

. titanium aluminides

aluminum alloys aluminum coatings

heat resistant alloys intermetallics

nickel alloys protective coatings

titanium alloys

aluminizing

USE aluminum coatings

### aluminum

chemical elements

. aluminum

. . aluminum isotopes

... aluminum 26 . . . aluminum 27

metals

. aluminum

. . aluminum isotopes

. . . aluminum 26

. aluminum 27

aluminum alloys

Boral

Borsic (tradename)

cryolite dawsonite

powdered aluminum

reaction bonding

sialon

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

alloys GS

. light alloys

. . aluminum alloys

. . aluminum-lithium alloys

aluminides aluminum

bearing alloys friction stir welding gallium allovs

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

RT 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 (filaments).

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

GS 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

RT

aluminum coatings 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

 $RT \infty$  chemical 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 injection lasers waveguide lasers

# aluminum gallium arsenides

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

AlGaAs

aluminum compounds GS

. aluminum arsenides

. . aluminum gallium arsenides . . . aluminum perchlorates solar system arsenic compounds Amazon region (South America) . arsenides aluminum silicates . . aluminum arsenides GS regions GS aluminum compounds . tropical regions ... aluminum gallium arsenides aluminum silicates . Amazon region (South America) . . gallium arsenides . . andesite . . . aluminum gallium arsenides Brazil . . feldspars gallium compounds forests . . gehlenite river basins . gallium arsenides . . kaolinite aluminum gallium arsenides rivers . . montmorillonite MODFETS . . pyrophyllite Amberlite (trademark) negative resistance devices . . plagioclase RT asbestos silicon compounds thermal insulation aluminum graphite composites . silicates Structural materials composed of alu-. . aluminum silicates ambience minum alloys reinforced with graphite. . . . andesite acoustic measurement composite materials feldspars environmental monitoring . . . gehlenite . metal matrix composites environments kaolinite aluminum graphite composites noise (sound) fiber composites . . . montmorillonite pollution monitoring graphite pyrophyllite .... plagioclase minerals ambient temperature RT aluminum hydrides DEF Temperature of surrounding medium. aluminum compounds mullites Used for environmental temperature. aluminum hydrides environmental temperature . aluminum borohydrides temperature aluminum-lithium alloys hydrogen compounds ambient temperature (added August 1991) DEF Light alloys consisting primarily of aluminum and lithium. . hydrides atmospheric temperature . . metal hydrides operating temperature ... aluminum hydrides room temperature GS alloys . . . aluminum borohydrides satellite temperature . light alloys . . aluminum alloys ambiguity . aluminum-lithium alloys aluminum isotopes RT intelligibility GS chemical elements lithium alloys positioning . aluminum-lithium alloys . aluminum . . aluminum isotopes aircraft construction materials ambipolar diffusion . . . aluminum 26 airframe materials GS diffusion . . . aluminum 27 alloying . ambipolar diffusion copper alloys . nuclides electron diffusion high strength alloys . . isotopes electron mobility ... aluminum isotopes magnesium alloys ionic diffusion . . . aluminum 26 . . . . aluminum 27 metals ionic mobility alveolar air plasma diffusion DEF The respiratory air in the alveoli (air . aluminum sacs) deep within the lungs. ambit . . aluminum isotopes gases field theory (physics) USE . . . aluminum 26 . gas mixtures . . . aluminum 27 . . air ambulances . . . alveolar air RT medical services mixtures ∞ military vehicles safety devices aluminum nitrides GS aluminum compounds . solutions . . gas mixtures aluminum nitrides **American Indians** nitrogen compounds . . . air RT anthropology . nitrides . . alveolar air culture (social sciences) . . metal nitrides exhalation expired air ethnic factors . . . aluminum nitrides minorities lungs races (anthropology) aluminum oxides alveoli UF alumina americium corundum DEF The terminal air sacs deep within the GS chemical elements aluminum compounds lungs. GS . actinide series anatomy . aluminum oxides . . transuranium elements . respiratory system . . alexandrite ... americium . sapphire . . lungs ... americium isotopes chalcogenides . . alveoli . americium 241 lung morphology . oxides . nuclides pulmonary circulation pulmonary functions .. metal oxides . . isotopes . . . aluminum oxides . . . radioactive isotopes . . . . alexandrite respiration . . . . transuranium elements . . . sapphire . . . . . americium RT abrasives AM (modulation) . . . . . americium isotopes aluminates USE amplitude modulation . . . . . . . americium 241 bauxite metals energy absorption films . actinide series AM-1 (EOS) spacecraft gehlenite . . transuranium elements (added June 1999) kaolinite . . . americium USE Terra spacecraft nanocomposites ... americium isotopes plagioclase . . . . . americium 241 pyrophyllite amalgams USĔ mercury amalgams rubv americium 241 thermites GS chemical elements . actinide series Amalthea . . transuranium elements aluminum perchlorates Innermost satellite of Jupiter. GS aluminum compounds celestial bodies . . . americium . . . . americium isotopes aluminum perchlorates . natural satellites . . Jupiter satellites halogen compounds . . . . . americium 241

Amalthea

RT Jupiter (planet)

. nuclides

. . isotopes

. chlorine compounds

. . perchlorates

	radioactive isotopes	hexamethylenetetramine	nitrogen hydrides
	transuranium elements	histidine	amino radical
	americium	hydroxylamine sulfate	nitrogen compounds
	americium isotopes	hyoscine	. nitrogen hydrides
	americium 241	mecamylamine	amino radical
	metals	melamine	radicals
	. actinide series	methylene diamine	. amino radical
	transuranium elements	monoethanolamine (MEA)	RT ammonia
	americium americium isotopes	nitroamines nitrosamine	anions free radicals
	americium 1sotopes	promethazine	molecular ions
	unionolum 241	tetrafluorohydrazine	reaction kinetics
americi	um isotopes	tetryl	reaction kinetics
GS	chemical elements	thiuronium	aminophylline
	. actinide series	trinitramine	GS diuretics
	transuranium elements	tryptamines	. aminophylline
	americium	melatonin	drugs
	americium isotopes	serotonin	. aminophylline
	americium 241	acetylcholine	organic compounds
	. nuclides	RT ∞ aliphatic compounds	. amines
	isotopes	histamines	aminophylline
	radioactive isotopes transuranium elements	hydrazines	RT stimulants
	americium	hydrocarbon fuels imines	ammeters
	americium isotopes	Lewis base	DEF An instrument for measuring the mag
	americium 241	nitrosyls	nitude of an electric current.
	metals	phenolic epoxy resins	GS measuring instruments
	. actinide series	rhodamine	. ammeters
	transuranium elements	modamino	micromilliammeters
	americium	amino acids	thermoelement ammeters
	americium isotopes	GS acids	RT coulometers
	americium 241	. amino acids	electric current
		alanine	electrical measurement
amidas		phenylalanine	galvanometers
GS	biopolymers	aspartic acid	voltmeters
	. proteins	cysteine	
	enzymes amidase	dopa	ammines
	organic compounds	folic acid	RT ammonia
	. proteins	glutamic acid	∞ chemical compounds copper
	enzymes	glutamine	intermetallics
	amidase	glycine	∞ metal compounds
RT	amino acids	hippuric acid	
		histidine	ammonia
amides		leucine	GS gases
GS	nitrogen compounds	norleucine	. ammonia
	. amides	lysine melanoidin	liquid ammonia
	acetanilide	methionine	inorganic compounds
	acetazolamide	thyroxine	. ammonia
	carbamides	tryptophan	liquid ammonia
	cyanamides	tyrosine	nitrogen compounds
	formhydroxamic acid nicotinamide	organic compounds	. ammonia
	oxamic acids	. amino acids	liquid ammonia
	polyimides	alanine	RT absorption cooling amino radical
	bismaleimide	phenylalanine	ammines
	Kapton (trademark)	aspartic acid	ammonium compounds
	succinimides	cysteine	ammonolysis
	ureas	dopa	atmospheric energy sources
	difluorourea	. folic acid	cultivation
	thioureas	glutamic acid	fertilizers
	thiuronium	glutamine	Kjeldahl method
RT	imides	glycine	nitrogen hydrides
	phthalimides	hippuric acid histidine	refrigerants
		leucine	
amines		norleucine	ammonium bromides
GS	organic compounds	lysine	GS ammonium compounds
	. amines aminophylline	melanoidin	. ammonium bromides
	amphetamines	methionine	halogen compounds
	methamphetamine	thyroxine	. bromine compounds bromides
	aniline	tryptophan	ammonium bromides
	catecholamine	tyrosine	. halides
	epinephrine	RT adenosine triphosphate	bromides
	norepinephrine	adrenocorticotropin (ACTH)	ammonium bromides
	cysteamine	amidase	
	diamines	aspartates	ammonium chlorides
	ethylenediamine	cyclic AMP	GS ammonium compounds
	guanidines	cysteamine	ammonium chlorides
	guanethidine	lipids	halogen compounds
	triaminoguanidinium azide	peptides polypeptides	. chlorine compounds
	difluorourea	protoproteins	chlorides
	dimenhydrinate	synthetic food	ammonium chlorides
	dimethylhydrazines	uridylic acid	. halides
	diphenyl hydantoin	zwitterions	chlorides
	ergotamine fluoroamines		ammonium chlorides
	nitrofluoramines	amino radical	ammonium compounds
	trifluoroamine oxide	GS hydrogen compounds	GS ammonium compounds
	gallamine triethiodide	. hydrides	. ammonium bromides
	J	,	Droillidoo

	. ammonium chlorides		weapons	RT	central nervous system stimulants
	. ammonium nitrates				
	. ammonium perchlorates	amobai		amphib	
	. ammonium phosphates	GS	acids . amobarbital	GS	animals . vertebrates
	. ammonium picrates . ammonium sulfates	RT	central nervous system depressants		amphibia
	. hydroxylammonium perchlorates				frogs
RT	ammonia	amoeba		RT	poikilothermia
~	chemical compounds	GS	animals	a mana hi i	ious sivereft
	hexamethonium		. protozoa amoeba	GS	oious aircraft amphibious vehicles
			pelomyxa	ao	. amphibious aircraft
	ium nitrates ammonium compounds		microorganisms	RT «	∞ aircraft
GS	. ammonium nitrates		. protozoa		seaplanes
	nitrogen compounds		amoeba		water takeoff and landing aircraft
	. nitrates	RT	pelomyxa parasitic diseases	amphih	oious vehicles
	inorganic nitrates			GS	amphibious vehicles
RT	ammonium nitrates cultivation	AMOOS			amphibious aircraft
nı	fertilizers	USE	Aeromaneuvering Orbit to Orbit Shuttle	RT	boats
			Shuttle	c	∞ military vehicles
ammon	ium perchlorates	Amor a	steroid		seaplanes ships
	ammonium compounds	DEF	One group of Earth-approaching aster-		surface vehicles
	ammonium perchlorates		h orbits between the planets Mars and	c	∞ vehicles
	halogen compounds		Used for Minor Planet 1221.  Minor Planet 1221		water vehicles
	. chlorine compounds	GS	celestial bodies	omnhih	volos
	perchlorates ammonium perchlorates		. asteroids	amphik DFF	A group of dark, rock-forming, ferro-
RT	solid rocket propellants		Amor asteroid		sian silicate minerals closely related in
		RT	asteroid belts		form and composition.
ammon	ium phosphates		astronomy	GS	minerals
GS	ammonium compounds		Jupiter (planet) Mars (planet)	рт	. amphiboles
	ammonium phosphates		planetary orbits	RT	calcium silicates silicates
	phosphorus compounds		solar system		Silicates
	. phosphates ammonium phosphates			Amphit	rite asteroid
	animonium phosphates	amorpr GS	nous materials amorphous materials	GS	celestial bodies
ammon	ium picrates	as	. amorphous silicon		. asteroids
GS	ammonium compounds	RT	asphalt	RT	Amphitrite asteroid asteroid belts
	ammonium picrates		carbon nitrides		Galileo project
	nitrogen compounds		crystallinity		
	. nitro compounds		glass graphoepitaxy	amplid	
	picrates ammonium picrates		grout	GS	electric generators
RT	explosives	۰	o materials		. rotating generators amplidynes
			spin glass	RT	amplifiers
ammon	ium sulfates				electric motors
GS	ammonium compounds	GS	nous semiconductors semiconductors (materials)		power amplifiers
	. ammonium sulfates	ao	. amorphous semiconductors		servomotors
	sulfur compounds		amorphous silicon	amplifi	cation
	. sulfates ammonium sulfates	RT	semiconducting films	UF	amplification factor
	animonium sunates	amornh	nous silicon		gain (amplification)
ammon	olyeje		amorphous materials		intensification
GS	chemical reactions	0.0	. amorphous silicon	GS	amplification
	. ammonolysis		chemical elements		. antenna gain . high gain
	decomposition		. metalloids		power gain
БТ	ammonolysis		silicon		. sound amplification
RT	ammonia cracking (chemical engineering)		amorphous silicon semiconductors (materials)		wave amplification
	hydrolysis		. amorphous semiconductors	RT	amplifiers
	, ,		amorphous silicon		amplitudes dynamic characteristics
ammun	ition	RT	diamond films		dynamic range
GS	ammunition		photovoltaic cells semiconducting films		dynamic response
	. incendiary ammunition		silicon films		fluid amplifiers
RT	blanks		silicon junctions		fluidics
	bombs (ordnance) case bonded propellants		solar cells		magnification positive feedback
	explosive devices		thin films		sensitivity
	explosives	amouni			stability
	fuses (ordnance)	UF	quantity		transfer functions
	grenades	RT	addition		transient response
	guns (ordnance)		sums	amplifi:	eation factor
	igniters magazines (supply chambers)		value		eation factor amplification
	mines (ordnance)	AMP /h	iochemistry)	302	.
	missiles		ed December 2004)		er design
	ordnance		adenosine monophosphate	RT	amplifiers
	projectiles		go.		computer aided design
	propellants pyrotechnics	ampera USE	ge electric current	c	∞ design logic design
~	o rockets	USE	GIGGUIG GUITGIIL		operational amplifiers
	shaped charges	amphet	amines		product development
~	o shot	GS	organic compounds		traveling wave amplifiers
	torpedoes ∘ tracers		. amines amphetamines	amplifi	ore
~	• tracers warheads		methamphetamine	DEF	Devices which enable an input signal
			p ===========		

to control a source of power whose output is an enlarged reproduction of the essential characteristics of the signal. Used for electronic ampli-

electronic amplifiers

## amplifiers

- . beam plasma amplifiers
- . broadband amplifiers
- . carcinotrons
- . current amplifiers
- . . photomultiplier tubes
- . . . frequency modulation photomultipliers
- . differential amplifiers
- . distributed amplifiers
- feedback amplifiers
- . fluid amplifiers
- . jet amplifiers
- intermediate frequency amplifiers
- light amplifiers
- . limiter amplifiers

- . Ilmier amplifiers
  . Innear amplifiers
  . magnetic amplifiers
  . magnetostatic amplifiers
  . microwave amplifiers
  . crossed field amplifiers
- cyclotron resonance devices
- . planotrons
  . cascode devices
- . operational amplifiers
- . parametric amplifiers
- . postamplifiers
- . power amplifiers
- . preamplifiers
- push-pull amplifiers
- . quantum amplifiers
- servoamplifiers
- . transistor amplifiers
- . traveling wave amplifiers
- . voltage amplifiers

# amplidynes

- amplification
- amplifier design

# ∞ boosters

- capacitors
- circuits
- dynamic range electric cells
- electric choppers
- image intensifiers intensifiers
- klystrons
- laser cavities
- lasers
- linear circuits
- masers modulators multivibrators
- oscillators receivers
- repeaters
- solid state devices
- stimulated emission devices
- transformers
- traveling wave masers

amplitrons (trademark)

USE planotrons

# amplitude distribution analysis

- amplitude probability analysis
- statistical analysis GS
  - . amplitude distribution analysis

photopeak

pulse amplitude

signal to noise ratios

signatures

## amplitude modulation

DEF In general, modulation in which the amplitude of a wave is the characteristic subject to variation.

UF AM (modulation)

- GS coding
  - . signal encoding
  - . . amplitude modulation
  - . . quadrature amplitude modulation modulation

  - . amplitude modulation
  - . . quadrature amplitude modulation

Bragg cells demodulation demodulators

frequency modulation

light modulation modulators

P.A.C.M. telemetry phase modulation pulse modulation

single sideband transmission

# amplitude probability analysis

# USE amplitude distribution analysis

### amplitudes

DEF The maximum value of the displacement of a wave or other periodic phenomenon from a reference position. Also, angular distance north or south of the prime vertical; the arc of the horizon, or the angle at the zenith between the prime vertical and a vertical circle, measured north or south from the prime vertical to the vertical circle.

### amplitudes GS

- pulse amplitude
- scattering amplitude

amplification cycles

dimensions displacement

frequencies

intensity level (quantity)

magnitude

oscillations

phase deviation picosecond pulses

pulses

standing wave ratios

vibration

## ampoules

Glass containers designed to be filled and sealed by fusion of the glass neck.

RT ∞ containers

laboratory equipment vacuum systems

# AMPS (satellite payload)

Atmospheric and Magnetospheric Payload

plasmas-in-space payload GS

measuring instruments . satellite-borne instruments

. AMPS (satellite payload) payloads

Spacelab payloads

. AMPS (satellite payload)

instrument packages

# **AMPTE** (satellites)

(ACTIVE MAGNETOSPHERIC PARTICLE TRACER EXPLORERS) Active Magneto Particle Tracer SN UF

Explorers artificial satellites GS

# scientific satellites . AMPTE (satellites)

Earth magnetosphere European space programs

satellite-borne instruments solar wind space plasmas

spaceborne experiments

# AMS (spectrometer)

(added June 1998)

USE Alpha Magnetic Spectrometer

# AMSU (radiometer)

(added July 1997)

Advanced Microwave Sounding Unit

automated mixed traffic vehicles

### **AMTV** USF

# AN-2 aircraft

Antonov aircraft GS AN-2 aircraft biplanes

. AN-2 aircraft transport aircraft . AN-2 aircraft RT agricultural aircraft ∞ aircraft

# AN-22 aircraft

UF Antheus aircraft Antonov AN-22 aircraft

Cock aircraft Antonov aircraft

. AN-22 aircraft jet aircraft

. turboprop aircraft

... AN-22 aircraft monoplanes

. AN-22 aircraft

transport aircraft
. AN-22 aircraft

RT ∞ aircraft

passenger aircraft

# AN-24 aircraft

Antonov AN-24 aircraft Coke aircraft

Antonov aircraft

. AN-24 aircraft jet aircraft

. turboprop aircraft monoplanes

. AN-24 aircraft

transport aircraft . AN-24 aircraft

RT ∞ aircraft passenger aircraft

anabaena plants (botany) GS

. algae

. . blue green algae

. . anabaena . thermophilic plants

.. blue green algae . . . anabaena

anaerobes RT aerobes bacteria microorganisms sewage treatment

analgesia anesthesia drugs pain

analog circuits

circuits GS analog circuits

data converters operational amplifiers rheoelectrical simulation

analog computers Computers that work on the principle of measuring, as distinguished from counting, in which the input data is analogous to a measurement continuum such as linear lengths, voltages, or resistances which can be manipulated

by the computer. 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

differential amplifiers differential analyzers digital computers discriminators

functional integration hybrid computers missile control

# analog data

operational amplifiers . . . coplanarity ... discretization (mathematics) resolvers numerical differentiation ... curl (vectors) signal analyzers Oseen approximation . . . . vorticity spectral resolution . combinatorial analysis Pade approximation . . binomial coefficients particle in cell technique analog data . . combinations (mathematics) Pohlhausen method binary data . . factorials predictor-corrector methods ∞ data Rayleigh-Ritz method . . partitions (mathematics) data converters relaxation method (mathematics) . . permutations data processing . complex variables Reynolds averaging digital data . . Airy function Ritz averaging method ∞ measurement . . analytic functions Schwartz method video compression . entire functions Sommerfeld approximation video data Bessel functions TVD schemes . Hankel functions upwind schemes (mathematics) analog simulation vortex in cell technique Cauchy integral formula GS models conformal mapping . Trefftz method . mathematical models conjugates computational mechanics . analog simulation . conjugate points exponential functions meshfree methods simulation . . boundary integral method . computerized simulation . . computational astrophysics . . . logarithms analog simulation gamma function harmonic functions computational chemistry computer systems simulation . . computational electromagnetics digital simulation hyperbolic functions
hypergeometric functions computational fluid dynamics flight simulation . difference equations . error analysis . finite volume method rheoelectrical simulation Laguerre functions Legendre functions systems simulation . Godunov method flux difference splitting analog to digital converters Liouville theorem DEF Devices for converting non-digital information into digits. Used for digitizers. Mathieu function meromorphic functions flux vector splitting elliptic functions Glimm method digitizers rational functions Graeff calculus GS data converters analog to digital converters nonholonomic equations . . interpolation orthogonal functions . . iteration coders coding Walsh function conjugate gradient method Schwarz-Christoffel transformation iterative solution ∞ converters data acquisition singularity (mathematics) Newton methods digital computers digital electronics . . naked singularities .... Newton-Raphson method spherical harmonics predictor-corrector methods digital systems dependent variables Monte Carlo method . Fourier analysis nomographs digital to analog converters . Fourier series . . numerical integration Illiac 3 computer . function space . Runge-Kutta method Illiac 4 computer peripheral equipment (computers) . . Banach space . . computational aeroacoustics Hilbert space direct numerical simulation plotting . Sobolev space space-time CE/SE method . functional analysis truncation errors analogies . . Banach space Pfaff equation similarities UF . . . Hilbert space . phase-space integral GS analogies . . Sobolev space . real variables . Earth analogs convolution integrals . . Abel function hydraulic analogies . . harmonic analysis . . asymptotes RT comparison tesseral harmonics . . Bessel functions homology zonal harmonics . Hankel functions simulation integral equations . . Bethe-Salpeter equation Fredholm equations ... calculus of variations analogs . . composite functions J integral RT models . delta function
. differential equations singular integral equations simulators Volterra equations Wiener Hopf equations analvsis Blasius equation USE analyzing integral transformations Chandrasekhar equation Fourier transformation cosine series analysis (mathematics)
DEF That part of the field of mathematics Duffing differential equation fast Fourier transformations Falkner-Skan equation Fourier-Bessel transformations which arises from the calculus and which deals hyperbolic differential equations Hilbert transformation primarily with functions Laplace transformation Lame wave equations GS analysis (mathematics) half planes partial differential equations . aperiodic functions half spaces biharmonic equations . calculus . Hill determinant Burger equation continuity (mathematics) . numerical analysis Cauchy-Riemann equations elliptic differential equations differential calculus . . approximation Fourier-Bessel transformations Born approximation . Monge-Ampere equation Graeff calculus Born-Oppenheimer approximation Euler-Cauchy equations integral calculus Chebyshev approximation Ffowcs Williams-Hawkings . . limits (mathematics) . . . Eddington approximation equation series (mathematics) ... essentially non-oscillatory Fokker-Planck equation . . . asymptotic series schemes .... Gauss equation Campbell-Hausdorff series . . . finite difference theory Helmholtz vorticity equation . . cosine series . . . . finite difference time domain . Liouville equations Fourier series method parabolic differential equations Pade approximation . . . finite element method Poisson equation power series Hartree approximation vlasov equations Riccati equation . Taylor series least squares method . MacLaurin series mean square values vorticity equations . . progressions Milne method . Helmholtz vorticity equation ... Prony series multigrid methods . . Einstein equations . . existence theorems Newton methods . . vector analysis . . extremum values Newton-Raphson method . . . limits (mathematics) . . . collinearity ... boundary element method

maxima	RT ∞ variance	examination
minima	TT Vallation	failure analysis
Cramer-Rao bounds	analytic functions	figure of merit
Fourier-Bessel transformations	UF holomorphism	forecasting
Green's functions	GS analysis (mathematics)	management analysis
hyperbolic functions	. complex variables	multivariate statistical analysis
hyperplanes	analytic functions	network analysis
Jacobi integral	entire functions	numerical analysis
Jacobi matrix method	functions (mathematics)	photointerpretation
kernel functions	. analytic functions	postflight analysis
Liapunov functions	entire functions	prediction analysis techniques
linear equations	RT Cauchy-Riemann equations	preflight analysis
Ffowcs Williams-Hawkings	isoperimetric problem	reliability analysis
equation	nonholonomic equations	sensitivity analysis
linear evolution equations	power series	signal analysis
Riccati equation		signature analysis
Lipschitz condition	analytic geometry	spectrum analysis
measure and integration	GS geometry	statistical analysis
binary integration	. Euclidean geometry	stress analysis
Borel sets	analytic geometry	structural analysis
functional integration	catenaries	systems analysis
integral calculus	circumferences	terrain analysis
J integral	conics	thermal analysis
Lebesgue theorem	ellipses	training analysis
numerical integration	hyperbolas	trajectory analysis
Runge-Kutta method	parabolas	trend analysis
Stieltjes integral	cycloids	weight analysis
weighting functions	epicycloids	x ray analysis
Neumann problem	loci	
. nonlinear equations	Mercator projection	anaphylaxis
cubic equations	quadrants	GS sensitivity
Duffing differential equation	S curves	. anaphylaxis
Monge-Ampere equation	Gompertz curves	RT allergic diseases
nonlinear evolution equations	spheroids	antigens
quadratic equations	oblate spheroids	immunology
quartic equations	prolate spheroids	sensitizing
numerical differentiation	tangents	
periodic functions	toruses	anastigmatism
trigonometric functions	trigonometry	RT optometry
cosine series	RT annuli	vision
sine series	asymptotes	
tangents	calculus	anatase
series (mathematics)	coordinates	UF octahedrite
asymptotic series	curves (geometry)	GS chalcogenides
Campbell-Hausdorff series	∞ cylinders	. oxides
cosine series	descriptive geometry	metal oxides
Fourier series	differential geometry	titanium oxides
Pade approximation	polytopes	anatase
power series	projective geometry	minerals
Taylor series		. anatase
MacLaurin series	analytical chemistry	titanium compounds
progressions	RT chemical analysis	. titanium oxides
Prony series	∞ chemistry	anatase
sine series	inorganic chemistry	RT pigments
Sturm-Liouville theory	qualitative analysis	rutile
vector analysis	quantitative analysis	1
collinearity	volumetric analysis	anatomy
coplanarity		SN (LIMITED TO ANIMAL ANATOMY) GS anatomy
curl (vectors)	analyzers	
vorticity	SN (EXCLUDES DEVICES FOR	. abdomen . chest
Weierstrass functions	PERFORMING MATHEMATICAL ANALYSIS)	. cnest
Whittaker functions	GS measuring instruments	
frequency domain analysis	. analyzers	mammary glands . circulatory system
. time domain analysis	engine analyzers	cardiovascular system
finite difference time domain	signal analyzers	blood vessels
method	RT controllers	arteries
RT algebra	∞ detectors	aorta
∞ analyzing	monitors	arterioles
∞ applications of mathematics	selectors	capillaries (anatomy)
discontinuity	∞ test equipment	glomerulus
equilibrium equations		veins
geometry	∞ analyzing	heart
∞ mathematics	SN (USE OF A MORE SPECIFIC TERM IS	cardiac auricles
monotone functions	RECOMMENDEDCONSULT THE TERMS	cardiac ventricles
∞ space	LISTED BELOW) UF <i>analysis</i>	epicardium
trees (mathematics)	instrumental analysis	heart conduction system
vector spaces	RT activation analysis	myocardium
Venn diagrams	algebra	. digestive system
	analysis (mathematics)	esophagus
analysis of variance	chemical analysis	gastrointestinal system
DEF A systematic statistical procedure for	combinatorial analysis	appendix (anatomy)
determining the sources and the magnitudes of	cost analysis	intestines
the errors present in a measurement process,	creep analysis	rectum
and for assessing the significance of differences	design analysis	stomach
between materials, processes, or test methods	diagnosis	mouth
under study.	differential geometry	lips (anatomy)
GS statistical analysis	duality principle	pancreas
. variance (statistics)	error analysis	salivary glands
analysis of variance	evaluation	teeth

		•
tongue	central nervous system	viscera
. face (anatomy)	brain	
chin	brain stem	anchors (fasteners)
forehead	cerebellum	,
		GS fasteners
mouth	cerebral ventricles	. anchors (fasteners)
lips (anatomy)	cerebrum	RT ∞ bands
		bolts
nose (anatomy)	cerebral cortex	
. genitourinary system	occipital lobes	brackets
bladder	·	clips
	diencephalon	
kidneys	hypothalamus	couplings
· · · · · · · · · · · · · · · · · · ·		guy wires
glomerulus	pineal gland	holders
reproductive systems	thalamus	
sex glands		mooring
	hippocampus	nuts (fasteners)
gonads	spinal cord	screws
ovaries	efferent nervous systems	
testes	•	straps
	nerves	studs (structural members)
prostate gland	ganglia	
uterus		tetherlines
	myelin sheath	
. glands (anatomy)	nerve fibers	
endocrine glands		Andes Mountains (South America)
adrenal gland	oculomotor nerves	GS landforms
. •	peripheral nervous system	
gonads		. mountains
ovaries	. peritoneum	Andes Mountains (South
testes	. pleurae	America)
	·	
hypothalamus	. respiratory system	RT South America
pancreas	bronchi	
	diaphragm (anatomy)	
parathyroid gland	diaprilagili (aliatolliy)	andesite
pineal gland	larynx	DEF Volcanic rock composed essentially of
pituitary gland	glottis	andesine and one or more mafic constituents.
	•	
thymus gland	vocal cords	GS aluminum compounds
thyroid gland	lungs	. aluminum silicates
, 0	S .	
mammary glands	alveoli	andesite
salivary glands	nose (anatomy)	rocks
sebaceous glands	• • • • • • • • • • • • • • • • • • • •	
	paranasal sinuses	. andesite
sex glands	pharynx	silicon compounds
gonads	. ,	. silicates
	trachea	
ovaries	sciatic region	aluminum silicates
testes	9	andesite
prostate gland	. sense organs	RT feldspars
	chemoreceptors	•
. head (anatomy)	•	igneous rocks
skull	ear	minerals
cranium	eardrums	
		soils
intracranial cavity	eustachian tubes	
mastoids	labyrinth	Andausa
	•	Andorra
. human body	cochlea	GS nations
. limbs (anatomy)	Corti organ	. Andorra
arm (anatomy)	otolith organs	
		RT Europe
elbow (anatomy)	semicircular canals	France
forearm	vestibules	
hand (anatomy)	middle ear	Pyrenees Mountains (Europe)
		Spain
fingers	eye (anatomy)	
leg (anatomy)	choroid membranes	
feet (anatomy)	conjunctiva	SN (USE OF A MORE SPECIFIC TERM IS
knee (anatomy)	cornea	RECOMMENDEDCONSULT THE TERMS
thigh	oculomotor nerves	LISTED BELOW)
•		LISTED BELOW)
. liver	pupils	RT Andromeda Constellation
. lumbar region	retina	Andromeda Galaxy
. musculoskeletal system	fovea	,
bones	gravireceptors	Andromeda Constellation
femur	otolith organs	
pelvis	baroreceptors	GS constellations
· · · · · · · · · · · · · · · · · · ·		. Andromeda Constellation
scapula	mechanoreceptors	RT ∞ Andromeda
skull	photoreceptors	
cranium	proprioceptors	Andromeda Galaxy
	· · · · · ·	
intracranial cavity	thermoreceptors	
mastoids	. skin (anatomy)	Andromeda Galaxy
	( ),	GS celestial bodies
spine	epidermis	
vertebrae	. immune systems	. galaxies
		spiral galaxies
sternum	. thorax	
tibia	. torso	Andromeda Galaxy
ulna	lymphatic system	RT ∞ Andromeda
		Andromeda Constellation
joints (anatomy)	spleen	
elbow (anatomy)	thymus gland	local group (astronomy)
knee (anatomy)		and the standard of the standa
wrist	bifurcation (biology)	anechoic chambers
muscles	biodynamics	DEF Enclosures especially designed with
constrictors	∞ biology	boundaries that absorb sufficiently well the
diaphragm (anatomy)	cells (biology)	sound incident thereon to create an essentially
flexors	∞ differentiation	field-free condition in the frequency ranges of
myocardium	differentiation (biology)	interest.
skeletal muscle	dorsal sections	GS compartments
		•
smooth muscle	epithelium	. test chambers
tendons	exoskeletons	anechoic chambers
cartilage	hepatitis	test facilities
. neck (anatomy)	morphology	. anechoic chambers
. nervous system	organs	RT acoustic attenuation
afferent nervous systems	posterior sections	acoustic measurement
autonomic nervous system	tissues (biology)	acoustics
sympathetic nervous system	, 3,,	
	vestibular nystagmus	∞ chambers

angular resolution zero sound RT angular resolution anoxia arteriosclerosis apsides anelasticity coronary artery disease azimuth GS mechanical properties emotional factors complements (mathematics) elastic properties heart function corners . anelasticity heart rate elongation creep properties myocardium goniometers internal friction physical exercise ∞ grade modulus of elasticity stress (physiology) gradients stress relaxation grazing incidence incidence angiogenesis anemias (added June 2004) obliqueness diseases The development of new blood vesphase shift GS anemias photogoniometers RT blood neovascularization pitch (inclination) blood cell count RT blood vessels ∞ profiles blood cells cardiovascular system protractors hematocrit ratio ∞ development reciprocal theorems hemoglobin growth slopes ischemia triangulation trigonometry hematopoietic system occupational diseases angiography anemometers imagery Angola Instruments used to measure the . radiography ĞS nations speed of air currents, usually measured from the angiography . Angola rotation of wind drivin cups or from wind presbrain RT Africa sure through a tube pointed into the wind. cardiology GS measuring instruments cardiovascular system angular acceleration . anemometers DEF The rate of change of angular velocity. rates (per time) . . drag force anemometers angiosperms . . hot-film anemometers . acceleration (physics)
. . angular acceleration
RT ∞ acceleration grains (food) . . hot-wire anemometers nuts (fruits) . . laser anemometers plants (botany) acceleration measurement centrifugal force centripetal force deceleration . sonic anemometers vegetables aircraft instruments flow measurement angiotensins meteorological instruments speed indicators (added August 2004) Oligopeptides ranging in size from anrotation velocity measurement wind (meteorology) giotensin precursors with 14 amino acids to the spin reduction active vasoconstrictor angiotensin II with 8 transverse acceleration wind measurement amino acids, or their analogs or derivatives. The yo-yo devices amino acid content varies with the species and wind vanes changes in that content produce antagonistic or angular correlation wind velocity inactive compounds. wind velocity measurement GS correlation GS organic compounds angular correlation . peptides anemometry data correlation USE velocity measurement . . polypeptides MATTS (systems) angiotensins view effects anesthesia RT neurotransmitters anesthesia GS renin angular distribution electroanesthesia vasoconstriction distribution (property) RT analgesia vasoconstrictor drugs angular distribution hypnosis electron density profiles sensory perception angle of attack
DEF The angle between a reference line elementary particle interactions unconsciousness flux density fixed with respect to an airframe and a line in the force distribution anesthesiology
GS medical science
. anesthesiology direction of movement of the body. mass distribution GS geometry Euclidean geometry moment distribution nuclear scattering chloroform . . angles (geometry) star distribution clinical medicine ... angle of attack depressants ... zero angle of attack angular momentum diagnosis aerodynamic characteristics GS momentum drugs aerodynamic stalling angular momentum pharmacology ∞ attack classical mechanics boundary layer separation Clebsch-Gordan coefficients anesthetics electron spin GS drugs sweep angle kinetics . anesthetics moments of inertia wing rock . . chloroform particle spin . . cyclopropane angles (geometry) quantum numbers .. methyl chloride DEF The inclination to each other of two quantum theory . novocain intersecting lines, measured by the arc of a quenching (atomic physics) RT ethers circle intercepted between the two lines forming Racah coefficient the angle, the center of the circle being the point Regge poles angels (radar) of intersection. spin Echos of false radar targets caused by geometry spin tests atmospheric inhomogeneity, atmospheric refrac-. Euclidean geometry stellar rotation tion, insects, birds, or unknown phenomena. . . angles (geometry) transverse momentum . . . angle of attack GS echoes Wigner coefficient . radar echoes . zero angle of attack . angels (radar) Bragg angle angular motion Brewster angle RT alint USE angular velocity

. . . dihedral angle

. . . sweep angle

... sweepback

elevation angle

. . . . leading edge sweep

look angles (electronics) look angles (tracking)

radar cross sections

. . angina pectoris

radio echoes

diseases . heart diseases

angina pectoris

angular resolution

measurement of angles.

GS resolution

DEF Specifically, the ability of a radar to distinguish between two targets solely by the

. angular resolution

# angular velocity

RT	accuracy		international cooperation		worms
	angles (geometry)		•		flatworms
	high resolution	<i>Anik A</i> USE	Anik 1		. livestock . poikilothermia
0	∘ optics radar resolution	OSL	Allik I		. protozoa
	Tadal Tesolution	Anik B			amoeba
		USE	Anik 2		pelomyxa
angular	velocity	Anik C			Flagellata
	The change of angle per unit time;	USE	Anik 3		Euglena
	ally, in celestial mechanics, the change	002	7 •		trypanosome paramecia
	of the radius vector per unit time. Used	Anik sa			. vertebrates
	ılar motion.		A series of geostationary communica-		amphibia
UF	angular motion		ellites operated by Telesat which is partly by the Canadian government and partly		frogs
GS	rates (per time)		by private enterprise. The name "Anik" is		birds chickens
	. angular velocity velocity		from an Eskimo word meaning "brother.		pigeons
	. angular velocity		so designated because of its partial use		turkeys
RT	gyration		ar North.		waterfowl
	orbital velocity	GS	artificial satellites . synchronous satellites		fishes
	proper motion		Anik satellites		schools (fish) sharks
	revolving rotation		Anik 1		mammals
	rotor speed		Anik 2		bats
	Sagnac effect		Anik 3		bears
	tachometers		Canadian spacecraft  Anik satellites		cats
	tip speed		Anik 1		cattle calves
			Anik 2		deer
onbudri	idoo		Anik 3		caribous
anhydri GS	chalcogenides	RT	Canadian space program		goats
ao	. oxides		Delta launch vehicle international cooperation		horses
	anhydrides		international cooperation		marine mammals dolphins
	peroxides	aniline			manatees
	inorganic peroxides hydrogen peroxide	GS	organic compounds		porpoises
	organic peroxides		. amines		seals (animals)
	potassium peroxides	RT	dyes		whales
	sodium peroxides		-,		moles primates
RT	acids	animal			apes
	bases (chemical)		ed July 2008)		chimpanzees
			Non-human animals, selected be- if specific characteristics, for use in ex-		baboons
Anik 1			ital research, teaching, or testing.		human beings
UF	Anik A	GS	models		monkeys rodents
-	Telesat Canada A		. animal models		guinea pigs
GS	artificial satellites	DT	knockout mice		hamsters
	. synchronous satellites	RT	animals bioassay		mice
	Anik satellites Anik 1		bioastronautics		jerboas
	Canadian spacecraft		cytology		knockout mice
	. Anik satellites		diseases		rabbits
	Anik 1		in vivo methods and tests mice		rats
RT	Canada		pathology		squirrels
	Canadian space program  Delta launch vehicle		rats		ground squirrels
	international cooperation				dogs sheep
	•	animals			swine
		UF	fauna metazoa		wolves
Anik 2		GS	animals		reptiles
UF	Anik B		. homeotherms		lizards snakes
GS	Telesat Canada B artificial satellites		. invertebrates		turtles
ao	. synchronous satellites		arthropods		. wildlife
	Anik satellites		artemia crabs		. zooplankton
	Anik 2		insects	RT	animal models ∞ biology
	Canadian spacecraft . Anik satellites		bees	C	<sup>∞</sup> biology biomass
	. Anik 2		bollworms		carbon cycle
RT	Canada		chironomus flies cockroaches		census
	Canadian space program		Coleoptera		endangered species
	Delta launch vehicle		beetles		food chain grazing
	international cooperation		tribolia		habitats
			boll weevils		heterotrophs
Anik 3			crickets Drosophila		larvae
UF	Anik C		fireflies		microorganisms
	Telesat Canada 3		grasshoppers		organisms parasites
00	Telesat Canada C		locusts		plankton
GS	artificial satellites . synchronous satellites		moths silkworms		plants (botany)
	. Anik satellites		slikworms spiders		predators
	Anik 3		mollusks		viability wildlife radiolocation
	Canadian spacecraft		cephalopods	c	∞ zoology
	. Anik satellites		octopuses		<b>.</b> ,
RT	Canada		snails Rotifera	animati	ion
	Canadian space program		sea urchins	GS	arts

. graphic arts . . animation

. . computer animation RT cinematography motion pictures

anions

GS

. negative ions

. anions

RT amino radical anodes cations

cell anodes electrode materials electron affinity ionic mobility

### anisole

GS ethers

### . anisole

. . . anisole

organic compounds . cyclic compounds . . heterocyclic compounds

# anisoplanatism

(added May 1999)

DEF In adaptive optics (AO) systems, a performance-degrading effect that arises whenever light from the wave-front sensor beacon and light from the target object sample different volumes of optical turbulence. This effect results in an increased value of the aperture-averaged residual phase variance after AO compensation, which causes an exponential decrease in system performance.

aberration adaptive optics atmospheric optics image resolution optical correction procedure phase error telescopes

# anisotropic fluids

GS media

anisotropic media

anisotropic fluids

RT anisotropy

∞ fluids

invariant imbeddings

isotropy liquid crystals Newtonian fluids

## anisotropic media

GS media

anisotropic media

. anisotropic fluids

RT anisotropy

birefringence

birefringent coatings

functionally gradient materials

homogeneity isotropic media

materials

polarization (waves)

# anisotropic plates

nonisotropic plates GS structural members

. plates (structural members)

. anisotropic plates

cantilever plates end plates perforated plates reinforced plates

## anisotropic shells

shells (structural forms) GS anisotropic shells corrugated shells elastic shells reinforced shells

Having different properties in different directions. Used for nonisotropy, onisotropy, photothermotropism, and thermotropism.

nonisotropy onisotropy photothermotropism

GS

. thermotropism

anisotropy . plastic anisotropy

. elastic anisotropy

aeolotropism anisotropic fluids anisotropic media birefringence crystal structure

crystals directivity

isotropy mechanical properties

metallography polarization (spin alignment) polarization (waves) spatial distribution Sunyaev-Zeldovich effect

## Anna hurricane

GS storms

. storms (meteorology)

. . cyclones

. . . hurricanes

. . . . Anna hurricane

. . tropical storms . . . hurricanes

. . . . Anna hurricane

# **ANNA** satellites

GS artificial satellites

geodetic satellites

ANNA satellites

Explorer 29 satellite

Explorer 36 satellite GEOS 1 satellite GEOS 2 satellite GEOS 3 satellite

# annealing

Application of heat energy to a material cooling at a suitable rate to relieve stresses, change certain properties, improve machinability, or for realignment of atoms in a distorted lattice as caused, for example, by radiation damage.

GS heat treatment

. annealing

. . laser annealing

. pulse heating combustion synthesis graphitization

hardening (materials)

heating

normalizing (heat treatment)

recrystallization simulated annealing

softening stress relieving

tempering

# annihilation reactions

GS annihilation reactions

. positron annihilation

antiparticles

electron-positron pairs high energy interactions matter-antimatter propulsion

photons

proton-antiproton interactions proton-proton reactions

# annotations

abstracts RT information summaries

# annual variations

UF interannual variations seasonal variations

GS variations

. periodic variations . annual variations

atmospheric circulation brown wave effect

cvcles

green wave effect intraseasonal variations Madden-Julian Oscillation magnetic variations meteorological parameters

meteorology monsoons

quasi-biennial oscillation

seasons

temporal distribution weather

wind variations zonal flow (meteorology)

# annular core pulse reactors

GS nuclear reactors

. annular core pulse reactors

RT ∞ nuclear energy nuclear fuel elements nuclear fuels reactor cores reactor design reactor materials reactor physics reactor safety reactor technology

# annular ducts

∞ reactors

DEF Ring-shaped openings for the passage of fluids (gases, etc.) designed for optimum aerodynamic flow properties for the application involved.

GS ducts

# annular ducts

air ducts duct geometry ducted bodies fluid flow intake systems nose inlets openings orifices vents

## annular flow

fluid flow GS

. axisymmetric flow

. . annular flow

annuli

axial flow channel flow coaxial flow

Couette flow ∞ flow flow geometry heat transmission nozzle flow

one dimensional flow turbulent flow

# annular nozzles

annuli coaxial flow conical nozzles exhaust nozzles inlet nozzles ∞ nozzles plug nozzles rocket nozzles shrouded nozzles spray nozzles

## annular plates

structural members

. plates (structural members)

. annular plates

annuli circular plates flat plates

# annular suspension and pointing system

In the Shuttle era, high accuracy pointing and stabilization of an experiment payload. pointing control systems GS

# annular suspension and pointing

system magnetic suspension

payloads space shuttles

	space transportation system		temperature sensors		Cobra Dane (radar)
	Spacelab				dipole antennas
	Spacelab payloads	anortho DEF			directional antennas
•	systems		igneous rocks composed almost en-		log periodic antennas microwave antennas
annuli			plagioclass feldspar.		patch antennas
RT	analytic geometry		rocks		phased arrays
	annular flow		. igneous rocks		retroreflection
	annular nozzles	DT	anorthosite		space based radar
	annular plates	RT	feldspars gabbro		Very Large Array (VLA)
	flow measurement		soils		Very Long Baseline Array (VLBA)
•	· rings		555	antenna	components
anodes		anoxia		GS	antenna components
DEF	The positive poles or electrodes of	DEF	A complete lack of oxygen available for		. antenna couplers
	emitters, such as electron tubes or	RT	gical use within the body. angina pectoris		diplexers directional couplers
electric		111	asphyxia		. antenna feeds
GS	electrodes . anodes		hypoxia		. parasitic elements (antennas)
	cell anodes		stress (physiology)		directors (antenna elements)
	shell anodes	ANS		RT	
	tube anodes	USE	Astronomical Netherlands Satellite	~	components couplers
RT	accumulators	002	Actionical Notice and Catoline		electronic equipment
	anions		environment environment	~	spinners
	cathodes electrode materials	USE	ice environments		
	multi-anode microchannel arrays	Antarati	c Ocean		couplers
	•		oceans	GS	antenna components . antenna couplers
anodic	coatings	0.0	. Antarctic Ocean		diplexers
GS	coatings	RT	Antarctic regions		directional couplers
	inorganic coatings				couplers
	anodic coatings . protective coatings		c regions The areas surrounding and including		. antenna couplers
	anodic coatings		inent of Antarctica. Used for Antarctica.		diplexers
RT	anodizing	UF	Antarctica	RT	directional couplers antennas
	cathodic coatings	GS	regions		couples
	electrode materials		. polar regions		coupling
	oxides		Antarctic regions McMurdo sound		coupling circuits
anodio	stripping		Ross ice shelf		energy transfer
DEF	The removal of metal coatings.		. remote regions		impedance matching microwave coupling
RT	cladding		Antarctic regions		transmission lines
	coating		McMurdo sound		
	debonding (materials)		Ross ice shelf		ı design
	delaminating		Southern Hemisphere . Antarctic regions	RT	antennas
	metal coatings plating		McMurdo sound		backlobes Cassegrain antennas
	removal		Ross ice shelf		delta antennas
0	stripping	RT	Antarctic Ocean	~	design
			climatology		dipole antennas
anodizi			continents land ice		gravitational wave antennas
	An electrolytic oxidation process in ne surface of a metal, when anodic, is		ozone depletion		Gregorian antennas helical antennas
	ed to a coating having desirable protec-		polar caps		horn antennas
	corative, or functional properties.		polynyas		lens antennas
GS	coating		Total Ozone Mapping Spectrometer	~	lobes
	anodizing	Antarctio	na .		log periodic antennas
	deposition	USE	Antarctic regions		maypole antennas microstrip antennas
RT	. anodizing anodic coatings				monopole antennas
	passivity		rocket vehicle		parabolic antennas
	protective coatings	GS	rocket vehicles		parasitic elements (antennas)
	surface treatment		. multistage rocket vehicles Antares rocket vehicle		patch antennas
	_		sounding rockets		pencil beams plasma antennas
anolyte GS			Antares rocket vehicle		product development
us	conductors . electrolytes	RT	atmospheric ionization		rhombic antennas
	anolytes		solid propellant rocket engines		sidelobes
RT	catholytes		X-254 engine		slot antennas
	cell anodes	Antelop	e missile		space technology experiments spiral antennas
	_		missiles		Yagi antennas
anomal			. Antelope missile		g
DEF GS	In general, deviations from the norm.  anomalies			antenna	
ao	. geothermal anomalies	antenna DEF	-	GS	antenna components
	gravity anomalies		directional effects, or to increase sen-	RT	. antenna feeds Gregorian antennas
	magnetic anomalies	sitivity.	and the content of th	111	reflector antennas
D.T.	geomagnetic hollow	•	arrays		strip transmission lines
RT	anomalous temperature zones		. antenna arrays		transmission lines
	Southern Oscillation		linear arrays		waveguides
anomal	ous temperature zones		endfire arrays Yagi antennas	antenna	fields
RT	anomalies		multispectral linear arrays	USE	antenna radiation patterns
	geysers		steerable antennas		
	stratospheric warming		inertialess steerable antennas	antenna	
	temperature measuring instruments	RT	turnstile antennas antennas		ed June 1998) amplification
	temperature measuring instruments temperature scales	пі	beamforming	us	. antenna gain
			· · · · · · · · · · · · · · · · ·		

RT	antennas	rectennas		American Indians
	automatic gain control	spacetennas		anthropometry
	directional antennas	. satellite antennas		archaeology
	effectiveness	. Schwarzschild antennas		artifacts
	high gain	. spacecraft antennas		case histories
	signal reception	spherical antennas		cities
		. spiral antennas		culture (social sciences)
antenna	radiation patterns	log spiral antennas		Eskimos
UF	antenna fields	. waveguide antennas		human beings
GS	distribution (property)	horn antennas		minorities
0.0	. radiation distribution	. patch antennas		museums
	antenna radiation patterns	RT antenna arrays		race factors
	•	antenna couplers		races (anthropology)
DT	sidelobes	antenna design		∞ science
RT	antennas	antenna gain		social factors
	backfire antennas	antenna radiation patterns		sociology
	backlobes	·		sociology
	beam steering	arrays		
	beamforming	conductors		pometry
	cylindrical antennas	corners	GS	0 0
	directional antennas	current sheets		. biometrics
000	fans	electromagnetic radiation		body measurement (biology)
	far fields	folding structures		anthropometry
	field theory (physics)	inflatable space structures	RT	anthropology
	footprints	near fields		body size (biology)
	Fresnel region	radiation hardening		∞ engineering
		∞ radiators		human factors engineering
	Gregorian antennas	radio equipment		numan radiors originoshing
00	lobes	radio telescopes	ontind	ronordios
	near fields	reflectors		renergics
	parasitic elements (antennas)		GS	0
	pencil beams	slewing		antiadrenergics
	plasma antennas	space technology experiments	RT	adrenergics
∞	radiation	telecommunication		
	reflector antennas	telescopes	antiaire	craft missiles
	rosette shapes	towers	GS	missiles
	Schelkunoff principle	transmitters		antiaircraft missiles
	Sommerfeld approximation			BOMARC missiles
	• • • • • • • • • • • • • • • • • • • •	Antheus aircraft		BOMARC A missile
	support interference	USE AN-22 aircraft		BOMARC B missile
	synthetic arrays			
		anthracene		Falcon missile
antenna	ıs	GS organic compounds		Mauler missile
DEF	Conductors or systems of conductors	. cyclic compounds		Nike-Ajax missile
	ting or receiving radio waves.	cyclic hydrocarbons		Nike-Hercules missile
	antennas			Redeye missile
ao	. aircraft antennas	anthracene		SIAM missiles
		. hydrocarbons		Sidewinder missiles
	. backfire antennas	cyclic hydrocarbons		tartar missile
	. Cassegrain antennas	anthracene		terrier missile
	. cylindrical antennas	RT anthraquinones	RT	air to air missiles
	. delta antennas	phenanthrene		antimissile missiles
	. directional antennas			Nike missiles
	dipole antennas	anthracite		
	helical antennas	DEF Coal of the highest metamorphic rank,		ramjet missiles
	horn antennas	in which fixed-carbon content is between 92		surface to air missiles
	lens antennas	percent and 98 percent (on a dry, mineral-		
	log periodic antennas	matter-free basis). It is hard and black, and has	antibio	tics
	loop antennas	a semimetallic luster and semiconchoidal frac-	GS	drugs
	radar antennas			. antibiotics
	radan amerinas	ture. Anthracite ignites with difficulty and burns		actinomycin
		with a short blue flame, without smoke. Used for		penicillin
	reflector antennas	hard coal.		pleurotin
	parabolic antennas	UF hard coal		streptomycin
	two reflector antennas	GS fuels		tetracyclines
	rhombic antennas	. chemical fuels	RT	antiinfectives and antibacterials
	slot antennas	hydrocarbon fuels	111	
	steerable antennas	fossil fuels		microorganisms steroids
	inertialess steerable antennas	coal		Steroius
	Yagi antennas	anthracite		
	. furlable antennas	resources	antibo	dies
	. gravitational wave antennas	. Earth resources	GS	antibodies
	LIGO (observatory)	fossil fuels		. gamma globulin
	. LISA (observatory)	coal	RT	acquired immunodeficiency syndrome
	. Gregorian antennas			antiserums
	8	anthracite		biocompatibility
	. high resolution coverage antennas	rocks		human immunodeficiency virus
	. hoop column antennas	. sedimentary rocks		immune systems
	. maypole antennas	carbonaceous rocks		immunology
	. microstrip antennas	coal		
	. missile antennas	anthracite		inoculum
	. monopulse antennas	RT mineral exploration		lymphatic system
	multibeam antennas	mining		physiological defenses
	. multiple beam interval scanners	-		vaccines
	. omnidirectional antennas	anthraquinones		
	monopole antennas	GS ketones	antich	olinergics
	whip antennas		UF	
	•	. anthraquinones	GS	drugs
	turnstile antennas	RT anthracene	as	. cholinergics
	. parasitic elements (antennas)	dyes		
	directors (antenna elements)		57	anticholinergics
	. plasma antennas	anthropology	RT	curare
	. radio antennas	DEF The study of the interrelations of bio-		
	microwave antennas	logical, cultural, geographical, and historical as-	anticlir	
	horn antennas	pects of man.	DEF	Geologic formations characterized by
	lens antennas	RT aborigines		he core of which contain stratigraphically
	***	• •	,	

# anticoagulants

older rocks; they convex upward. Used for antiferromagnetism fuel contamination hysteresis ice prevention clinoria. anticlinoria Ising model inhibitors RT domes (geology) magnetic switching propellant additives geosynclines retardants magnons neel temperature layers antiinfectives and antibacterials strata paramagnetism stratification GS drugs stratigraphy . antiinfectives and antibacterials DEF Measures taken to prevent corrosion synclines antibiotics or the accumulation of organic or other residues antiseptics anticlinoria or growths on operating machanisms, especially bactericides USE anticlines in underwater environments. contamination fouling GS fungicides anticoagulants . antifouling RT adrenergics RT ∞ agents antiknock additives  $\infty$  agents cleaning additives GS heparins contamination . antiknock additives preservatives corrosion prevention automobile fuels stabilizers (agents) inhibitors gasoline sterilization ∞ octane anticoincidence detectors octanes (added August 2000)
DEF Detectors and related systems that difantifreezes retardants GS additives ferentiate ambient background noise from sig-nals of interest by identifying unwanted input . antifreezes antimatter antiicing additives GS antimatter signals that co-occur in time with other signals. Often used with gamma-ray detection systems. . antiparticles freezina . . antineutrinos anticoincidence shields antifriction bearings . . antinucleons RT background radiation bearings . . antiprotons coincidence circuits . antifriction bearings . positrons comparators . . ball bearings Alpha Magnetic Spectrometer counting circuits . . roller bearings degenerate matter detectors . needle bearings matter (physics) discriminators friction reduction matter-antimatter propulsion gamma ray spectrometers gas bearings negative matter hodoscopes journal bearings particle telescopes rolling contact loads antimissile defense proportional counters thrust bearings SN (PROTECTION AGAINST MISSILE radiation counters ÀTTACK) scintillation counters GS air defense antigens signal detectors antimissile defense anaphylaxis RT antiradiation missiles trigger circuits biocompatibility immune systems immunoassay civil defense anticoincidence shields ∞ defense (added August 2000) defense industry immunology USE anticoincidence detectors defense program inoculum military technology physiological defenses anticonvulsants missile defense radioimmunoassay GS drugs missiles Rhesus factor anticonvulsants optical countermeasures vaccines hexamethonium Safeguard system antigravity Sentinel system anticyclones space surveillance (ground based) A hypothetical effect that would arise RT air masses from cancellation by some energy field of the effect of the gravitational field of the earth or space surveillance (spaceborne) atmospheric pressure cyclones antimissile missiles other body. high pressure gravitation GS missiles RT meteorology synoptic meteorology . antimissile missiles microgravity Mauler missile . . Nike-Zeus missile Antigua and Barbuda antidetection technology (added February 1989) Spartan missile (added November 2001) Sprint missile landforms USE stealth technology antiaircraft missiles ballistic missiles islands . . West Indies antidiuretics . Antigua and Barbuda infrared tracking GS drugs nations missile defense antidiuretics Antigua and Barbuda Nike missiles RT RT Caribbean region Nike X systems Sentinel system antidotes antihistaminics SIAM missiles GS drugs space weapons GS drugs antidotes . antihistaminics surface to air missiles RT inhibitors . . dimenhydrinate . . diphenyl hydantoin antimisting fuels antiemetics and antinauseants . promethazine Fuels which have an additive to reduce GS druas decongestants misting and thus create safer fuels. . antiemetics and antinauseants histamines fuels RT nausea . chemical fuels . . liquid fuels antihypertensive agents antiferroelectricity electrical properties
. antiferroelectricity antimisting fuels GS druas GS antihypertensive agents RT additives dielectric properties ferroelectricity RT reserpine aircraft fuels flame retardants antiicing additives jet engine fuels hysteresis additives kerosene GS ∞ polarization antiicing additives antiferromagnetism antifreezes antimonides magnetic properties antimony compounds deicers

deicina

antimonides

antiferromagnetism

aluminum antimonides	. antiparticles	. antiparticles
cadmium antimonides	antinucleons	antiprotons
cesium antimonides	particles	particles
gallium antimonides	. elementary particles	. charged particles
germanium antimonides	antiparticles	antiprotons
indium antimonides	antinucleons	. elementary particles
zinc antimonides	. nuclear particles	antiparticles
antimony	antiparticles	antiprotons
antimony	antinucleons	. nuclear particles
GS chemical elements	RT nucleons	antiparticles
. metalloids	antiavidanta	antiprotons
antimony	antioxidants	RT proton-antiproton interactions
RT metals	DEF Compounding ingredients used to retard deterioration caused by oxidation.	protons
antimony alloys	GS additives	antiquities
GS alloys	. antioxidants	DEF Man-made objects or surviving parts or
. antimony alloys	RT ∞ agents	fragments from the past.
babbitt metal	corrosion prevention	RT artifacts
RT bismuth alloys	corrosion resistance	tools
mulberry (alloy)	inhibitors	weapons
, (,)	melatonin	поцрана
antimony compounds	preservatives	antiradar coatings
GS antimony compounds	propellant additives	GS absorbers (materials)
. antimonides	retardants	. radar absorbers
aluminum antimonides	stabilizers (agents)	antiradar coatings
cadmium antimonides	()	coatings
cesium antimonides	antiparticles	. antiradar coatings
gallium antimonides	DEF Particles with a charge of opposite	countermeasures
germanium antimonides	signs to the same particles in normal matter.	. electronic countermeasures
indium antimonides	GS antimatter	antiradar coatings
zinc antimonides	. antiparticles	RT electronic warfare
. antimony fluorides	antineutrinos	inorganic coatings
RT ∞ chemical compounds	antinucleons	metal coatings
∞ Group 5A compounds	antiprotons	plastic coatings
∞ metal compounds	positrons	∞ ram
	particles	stealth technology
antimony fluorides	. elementary particles	
GS antimony compounds	. antiparticles	antiradiation drugs
antimony fluorides	antineutrinos	UF radioprotective agents
halogen compounds	antinucleons	GS drugs
. fluorine compounds	antiprotons	antiradiation drugs
fluorides	positrons	cysteamine
antimony fluorides	. nuclear particles	RT nuclear medicine
. halides	antiparticles	pharmacology
fluorides	antineutrinos	radiation protection
antimony fluorides	antinucleons	radiation sickness
antimony isotopes	antiprotons	radiobiology
GS chemical elements	positrons	radiopathology
. metalloids	RT annihilation reactions	antiradiation missiles
antimony isotopes	charged particles	DEF Missiles that attack radiating targets
. nuclides	hyperons Pomeranchuk theorem	such as radar transmitters, etc.
isotopes	positron annihilation	GS missiles
antimony isotopes	position aminimation	. antiradiation missiles
metals	antiphase boundaries	RT air defense
. antimony isotopes	(added March 1998)	antimissile defense
, ,	UF antiphase domains	countermeasures
antineutrinos	APB (materials)	digital radar systems
GS antimatter	GS boundaries	military technology
. antiparticles	. antiphase boundaries	missile defense
antineutrinos	RT binary alloys	remote control
particles	crystal dislocations	
elementary particles	crystal lattices	antireflection coatings
antiparticles	crystal structure	DEF Thin dielectric or metallic films applied
antineutrinos	grain boundaries	to an optical surface to reduce the reflectance
fermions	interfacial energy	and thereby increase the transmittance. Note:
leptons	intermetallics	The ideal value of the reactive index of a single
antineutrinos	microstructure	layered film is the square root of the product of
. nuclear particles	order-disorder transformations	the refractive indices on either side of the film,
antiparticles	solid solutions	the ideal optical thickness being one quarter of a
antineutrinos	solid-solid interfaces	wavelength.
RT charged particles	superlattices	GS coatings
neutrinos	ternary alloys	. antireflection coatings
antinodos		RT lens design
antinodes  DEF Either of the two points on an orbit	antiphase domains	optical coatings optical reflection
where a line in the orbit plane, perpendicular to	(added March 1998)	
the line of nodes and passing through the focus	USE antiphase boundaries	optical thickness solar cells
intersects the orbit. Also a point, line, or surface	antipodes	Suiai UEIIS
in a standing wave where some characteristic of	DEF Anything exactly opposite to some-	antiseptics
the wave field has maximum amplitude.	thing else. Particularly, that point on the Earth	UF disinfectants
RT nodes (standing waves)	180 deg. 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
	20	decontamination
antinucleons	antiprotons	environmental control
GS antimatter	GS antimatter	fumigation
		<u>~</u>

	infectious diseases		attack aircraft		. scientific satellites
	purification		bomber aircraft		astronomical satellites
	sterilization		drone aircraft		OSO
antiseru	ime		H-25 helicopter		AOSO
RT	antibodies	000	military aircraft observation aircraft		observatories . astronomical observatories
	immunology		P-531 helicopter		astronomical satellites
	serums		reconnaissance aircraft		OSO
	vaccines		S-61 helicopter		AOSO
			submersible aircraft		solar observatories
antiship	missiles		V/STOL aircraft		OSO
GS	missiles		water takeoff and landing aircraft		AOSO
	antiship missiles				. geophysical observatories
RT	cruise missiles	antisym			OSO
	sea launching	RT	asymmetry		AOSO
	ships		chirality	RT	sun
	submarines		symmetry		
	weapon systems	antitank	missiles	•	rocket vehicle
antishir	o warfare		missiles	GS	rocket vehicles
GS	warfare	0.0	. surface to surface missiles		. sounding rockets
0.0	. antiship warfare		. antitank missiles	DT	. Apache rocket vehicle
RT	missiles		Shillelagh missiles	RT	sondes
	sea launching		tow missiles		
	ships			apatites	
	submarines		/ aircraft	USE	calcium phosphates
	warheads	GS	Antonov aircraft		minerals
	weapons		. AN-2 aircraft	400 (	
			. AN-22 aircraft	APB (ma	
	defects	БТ	. AN-24 aircraft		ed March 1998)
	ed July 1997)	HI∞	aircraft	USE	antiphase boundaries
	Point defects occurring in crystalline	Antonov	AN-22 aircraft		
	nds where an atom of one atomic spe-		AN-22 aircraft		ic functions
	upies an atomic site that is allocated to	USE	AN-22 difcialt	GS	analysis (mathematics)
	ent atomic species (e.g., in GaAs, an	Antonov	AN-24 aircraft		aperiodic functions
	atom may sit on a site allocated to a		AN-24 aircraft		functions (mathematics)
	atom). If the nearest neighbor sites are	002	Alt 21 dilotate	DT	aperiodic functions
	d with the correct species for their sites	anvil clo	ouds	КI	complex variables
	n arsenic antisite atom surrounded by	GS	clouds (meteorology)		real variables
	atoms), the antisite atom is then bonded		. convection clouds		
	ike atoms (rather than four Ga atoms).		cumulonimbus clouds	aperture	
	configuration is not electrically neutral,		anvil clouds	GS	. 0
	as a double donor. An "antisite pair" f two adjacent atoms have simply been		cumulus clouds		apertures
intercha			anvil clouds		irises (mechanical apertures)
	defects	RT	atmospheric moisture		numerical aperture
ao	. crystal defects		climatology	DT	synthetic apertures
	point defects		cloud cover	RT	apodization
	antisite defects		fog		cavities
RT	donor materials		meteorology		doors
	gallium arsenides		nephanalysis		gates (openings) infrared windows
	interstitials		precipitation (meteorology)		louvers
	semiconductors (materials)		thunderstorms		orifices
	vacancies (crystal defects)		weather		outlets
	,	anvils			pinhole cameras
antiskio	I devices		compressing		ports (openings)
RT	aircraft brakes	ΠI	compressing tools		slits
	arresting gear		10013		synthetic arrays
	automobiles	anxiety			vents
	brakes (for arresting motion)	DEF	Nervous or fear reaction to a percep-		VSAT (network)
~	devices	tion of d			windows (apertures)
	landing aids	RT	detachment		
	safety devices		fear	apes	
	trucks		fear of flying	GS	animals
	wheel brakes		phobias		. vertebrates
antictati	c devices		stress (biology)		mammals
USE	static dischargers		Taylor manifest anxiety scale		primates
OOL	static discriargers	404			apes
antisuh	marine warfare	AO-1 air			chimpanzees
GS	warfare	USE	OV-1 aircraft		
40	. antisubmarine warfare	AOIPS		apexes	
RT	ASROC engine	USE	Atmospheric & Oceanographic	UF	vertices
	military technology	OOL	Inform Sys	RT	altitude
	sonobuoys		mom cys		aphelions
	submarines	aorta			apogees
	torpedoes	GS	anatomy		maxima
	underwater explosions		. circulatory system		orbits
	underwater trajectories		cardiovascular system	000	peaks
			blood vessels		plateaus
antisub	marine warfare aircraft		arteries		trajectories
GS	antisubmarine warfare aircraft		aorta		zenith
	. Breguet 1150 aircraft	RT	heart		
	. CL-84 aircraft			aphelio	
	. P-3 aircraft	AOSO		GS	apsides
	. S-2 aircraft	UF	Advanced Orbiting Solar Observatory		aphelions
	. S-3 aircraft	GS	artificial satellites	RT	apexes
	. SH-3 helicopter		. geophysical satellites		elliptical orbits
	. SH-4 helicopter		OSO		orbits
RT ∝	aircraft		AOSO		perihelions

solar orbits lunar launch manned spacecraft Lunar Module moon-Earth trajectories lunar spacecraft API (computers) (added June 2003) moon-Earth trajectories Apollo 13 flight USE application programming interface space flight Apollo 7 flight . manned space flight . . Apollo flights APL (programming language) GS space flight "A Programming Language" is a high . manned space flight level interactive computer language primarily . . Apollo flights Earth-Moon trajectories designed for mathematical applications. It was lunar exploration developed by Kenneth Iverson in 1962. It is Earth-Moon trajectories Lunar Exploration System for Apollo characterized by extensive operators and array handling capability. NASA Goddard was one of lunar flight lunar exploration Lunar Exploration System for Apollo lunar landing the first users and was instrumental in introduclunar flight lunar launch ing APL to the computer community. lunar landing Lunar Module GS languages lunar launch manned spacecraft . programming languages Lunar Module moon-Earth trajectories . APL (programming language) manned spacecraft computer programming Apollo 14 flight moon-Earth trajectories GS space flight Apollo 8 flight . manned space flight apnea USE respiration space flight . . Apollo flights . manned space flight ... Apollo 14 flight apodization . . Apollo flights Earth-Moon trajectories (added October 2002) Apollo 8 flight lunar exploration DEF The elimination or smoothing of sharp Earth-Moon trajectories Lunar Exploration System for Apollo discontinuities in an image, electrical signal, or lunar exploration lunar flight mathematical function; as in the modification of Lunar Exploration System for Apollo lunar landing lens design to reduce diffraction fringes, or the lunar flight lunar launch mathematical processing of interferograms to lunar landing Lunar Module suppress sidelobes. lunar launch manned spacecraft moon-Earth trajectories apertures Lunar Module Bragg gratings manned spacecraft gratings (spectra) moon-Earth trajectories Apollo 15 flight GS space flight imaging techniques optical filters Apollo 9 flight . manned space flight sidelobe reduction space flight . . Apollo flights GS . manned space flight
.. Apollo flights
... Apollo 9 flight
Earth-Moon trajectories Apollo 15 flight wave diffraction Earth-Moon trajectories lunar exploration
Lunar Exploration System for Apollo apogee boost motors ŰF ABM lunar exploration
Lunar Exploration System for Apollo lunar flight apogee kick motors lunar landing engines . rocket engines lunar flight lunar launch . . booster rocket engines Lunar Module lunar landing . . . apogee boost motors lunar launch manned spacecraft . solid propellant rocket engines Lunar Module moon-Earth trajectories . . apogee boost motors SIM RT ∞ boosters Apollo 10 flight Apollo 16 flight GS space flight motors space flight . manned space flight apogee kick motors . manned space flight
. . Apollo flights . . Apollo flights . . . Apollo 10 flight USE apogee boost motors Apollo 16 flight Earth-Moon trajectories apogees lunar exploration Earth-Moon trajectories Those orbital points farthest from the Lunar Exploration System for Apollo lunar exploration Earth, when the Earth is the center of attraction. lunar flight Lunar Exploration System for Apollo apsides GS lunar landing lunar flight . apogees lunar launch lunar landing RT apexes Earth orbits Lunar Module lunar launch manned spacecraft Lunar Module elliptical orbits moon-Earth trajectories manned spacecraft orbits moon-Earth trajectories perigees Apollo 11 flight GS space flight Apollo 17 flight Apollo 5 flight . manned space flight space flight space flight . . Apollo flights . manned space flight . . Apollo flights . manned space flight . Apollo 11 flight . Apollo flights Earth-Moon trajectories Apollo 17 flight . Apollo 5 flight lunar exploration 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 landing lunar launch lunar landing Lunar Module lunar launch lunar launch manned spacecraft Lunar Module Lunar Module moon-Earth trajectories manned spacecraft moon-Earth trajectories lunar spacecraft moon-Earth trajectories Apollo 12 flight GS space flight Apollo applications program . manned space flight Apollo 6 flight GS programs GS space flight . . Apollo flights . NASA programs . . NASA space programs
. . . Apollo applications program

Apollo 12 flight

Earth-Moon trajectories

Lunar Exploration System for Apollo

lunar exploration

lunar flight

lunar landing

lunar launch

Lunar Module

. manned space flight . . Apollo flights

. Apollo 6 flight

Earth-Moon trajectories lunar exploration

lunar flight

lunar landing

Lunar Exploration System for Apollo

# 55

. space programs

AAP 1 mission

AAP 2 mission

AAP 3 mission

. . NASA space programs

. Apollo applications program

# **Apollo asteroids**

AAP 4 mission airlock modules Earth Resources Program Earth Resources Survey Program Saturn 1 workshop Saturn 5 workshop Saturn project Saturn workshops Skylab program

# Apollo asteroids

RT

Earth grazing asteroids in orbits between Mars and Jupiter, and crossing the Earth's orbit. This group contains 19 known asteroids.

GS celestial bodies

. asteroids

. Apollo asteroids

asteroid belts astronomy Chiron Earth orbits Jupiter (planet) Mars (planet) planetary orbits solar system

# Apollo extension system

exobiology extravehicular activity lunar landing modules manned space flight NASA programs orbital workshops  $\infty \, systems$ 

## Apollo flights

GS space flight

. manned space flight

.. Apollo flights

. . . Apollo 5 flight

. Apollo 5 flight . . Apollo 7 flight . . Apollo 8 flight

. Apollo 9 flight . Apollo 10 flight . Apollo 11 flight

Apollo 12 flight

Apollo 13 flight Apollo 14 flight

. Apollo 15 flight . . . Apollo 16 flight

Apollo 17 flight

Skylab program

## Apollo lunar experiment module

lunar spacecraft

. Apollo spacecraft

Apollo lunar experiment module

. lunar landing modules . . Lunar Module

... Apollo lunar experiment

module

maneuverable spacecraft

. Apollo spacecraft

. Apollo lunar experiment module

manned spacecraft

Apollo spacecraft Apollo lunar experiment module

. Lunar Module

. . Apollo lunar experiment module modules

. spacecraft modules

. . landing modules

. . . lunar landing modules . . . . Lunar Module

. . . . Apollo lunar experiment module

reentry vehicles

. recoverable spacecraft

. . Apollo spacecraft

... Apollo lunar experiment module

soft landing spacecraft

. Apollo spacecraft

. Apollo lunar experiment module

landing modules

. . lunar landing modules

. . . Lunar Module

. . . . Apollo lunar experiment module

spacecraft components

. spacecraft modules . . landing modules

. . . lunar landing modules

. . . . Lunar Module

. . . . . Apollo lunar experiment module

lunar exploration lunar landing

# **Apollo Lunar Surface Experiments Package**

ALSEP GS

packages

. instrument packages

. Apollo Lunar Surface **Experiments Package** 

RT ∞ instruments

lunar exploration lunar retroreflectors

payloads

∞ surfaces

# Apollo project

GS programs

. lunar programs

Apollo project

. NASA programs . . NASA space programs

. Apollo project

. projects

. . Apollo project

space programs

. . NASA space programs

Apollo project

AAP 1 mission AAP 2 mission

AAP 3 mission

AAP 4 mission

Advanced Range Instrumentation

Aircraft

command service modules

LSSM

lunar exploration

Lunar Exploration System for Apollo

lunar mobile laboratories

lunar probes

manned spacecraft Marquardt R4D engine

Mercury project

Saturn 1 workshop

Saturn 5 workshop

Saturn launch vehicles

Saturn workshops

SIM

site data processors Skylab program

soft landing spacecraft

Apollo short stack

RT spacecraft configurations

# Apollo Soyuz test project

UF ASTP GS

programs

projects

. Apollo Soyuz test project

international cooperation international relations

manned spacecraft rendezvous

Soyuz spacecraft

space flight

space missions space programs

space rendezvous

spacecrew transfer U.S.S.R. space program

# Apollo spacecraft

lunar spacecraft GS

Apollo spacecraft

. Apollo lunar experiment module maneuverable spacecraft

Apollo spacecraft

. Apollo lunar experiment module manned spacecraft

Apollo spacecraft

. . Apollo lunar experiment module

reentry vehicles

. recoverable spacecraft

. Apollo spacecraft

Apollo lunar experiment module

soft landing spacecraft

. Apollo spacecraft . . Apollo lunar experiment module

command modules landing modules Lunar Module

Lunar Module 5 Lunar Module 7

manned orbital laboratories

Saturn project service modules Skylab program unified S band

# Apollo telescope mount

telescopes

. manned orbital telescopes

Apollo telescope mount

Skylab program

# apoptosis

(added October 2000)

One of the two mechanisms by which cell death occurs (the other being the pathological process of NECROSIS). Apoptosis is the mechanism responsible for the physiological deletion of cells and appears to be intrinsically programmed. It is characterized by distinctive morphologic changes in the nucleus and cytoplasm, chromatin cleavage at regularly spaced sites, and the endonucleolytic cleavage of genomic DNA at internucleosomal sites. This mode of cell death serves as a balance to mitosis in regulating the size of animal tissues and in mediating pathologic processes associated with tumor growth.

programmed cell death GS

physiological effects apoptosis

biological effects cells (biology)

cytology

death

deoxyribonucleic acid necrosis radiation effects

Appalachian Mountains (North America)

GS landforms

. mountains . . Appalachian Mountains (North

America)

RT North America

apparatus

USE equipment

appearance RT imagery quality

appendages

GS appendages

visibility

. arm (anatomy)

. . elbow (anatomy) . forearm

. hand (anatomy) . fingers

. leg (anatomy)

. . feet (anatomy) knee (anatomy)

limbs (anatomy)

. thigh anatomy human body

appendix (anatomy) GS anatomy

. digestive system

. . gastrointestinal system

... appendix (anatomy)

RT intestines flight plans . . . Born-Oppenheimer approximation ground based control Chebyshev approximation application guidance (motion) ... Eddington approximation USE utilization landing ... essentially non-oscillatory landing aids schemes application programming interface . . . finite difference theory passageways (added June 2003) touchdown . . . . finite difference time domain DEF An interface between a software or method hardware system and an application program approach and landing tests (STS) ... finite element method which allows the application program to commu-nicate with, and to access services from the DEF A series of flight maneuvers involving . . . Hartree approximation the Space Shuttle. . . . least squares method software or hardware system evaluation mean square values API (computers) horizontal spacecraft landing Milne method computer systems programs landing multigrid methods manned spacecraft Newton methods application specific integrated circuits space shuttles . Newton-Raphson method (added May 1989) space transportation system boundary element method ASIC spacecraft landing discretization (mathematics) custom integrated circuits numerical differentiation tests GS circuits touchdown Oseen approximation . integrated circuits Pade approximation ... application specific integrated approach control particle in cell technique circuits DEF The control process which delivers air-Pohlhausen method chips (electronics) craft to the final approach course or landing predictor-corrector methods large scale integration system properly spaced for their landing. Rayleigh-Ritz method systems-on-a-chip approach control relaxation method (mathematics) very large scale integration . radar approach control Reynolds averaging air traffic control Ritz averaging method **Applications Explorer Satellites** aircraft approach spacing Schwartz method GS artificial satellites aircraft communication Sommerfeld approximation . scientific satellites aircraft guidance TVD schemes . . Explorer satellites aircraft maneuvers ... upwind schemes (mathematics) **Applications Explorer Satellites** automated en route ATC ... vortex in cell technique Heat Capacity Mapping Mission collision avoidance .... Trefftz method control ... computational mechanics ∞ applications of mathematics flight paths glide paths . . meshfree methods (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) RT ∞ applications of mathematics ground based control instrument approach censored data (mathematics) mathematical analysis difference equations instrument flight rules instrument landing systems RT analysis (mathematics) ∞ equations approximation form factors combinatorial analysis landing aids Glauber theory computation landing radar Godunov method dimensional analysis microwave landing systems ∞ methodology dynamic programming night flights (aircraft) minimax technique econometrics runway lights numerical stability error analysis tracking (position) problem solving finite element method traffic control ∞ relationships fractals visual control spline functions functions (mathematics) static models information theory approach indicators statistical analysis Kalman-Schmidt filtering GS aircraft instruments linear programming approach indicators approximation methods mathematical models display devices USE approximation nonlinear programming approach indicators numerical analysis flight instruments apsidal angles operational calculus approach indicators USE apsides operations research landing aids optimization landing instruments apsides . approach indicators parameterization apsidal angles probability theory measuring instruments apsides statistical analysis . indicating instruments . aphelions . approach indicators stochastic processes apogees air traffic control time series analysis perigees . perihelions altimeters applications programs (computers) blind landing . perilunes DEF Software designed to fulfill specific glide paths angles (geometry) needs of a user; for example, software for antipodes instrument approach instrument landing systems navigation, payroll, or process control. elliptical orbits microwave scanning beam landing GS computer programs orbital elements applications programs system orbital mechanics (computers) navigation aids radar approach control .. NASTRAN APT (picture transmission) . . spreadsheets USE automatic picture transmission solar compasses speed indicators . web services aptitude computers software development tools appropriations GS abilities RT budgeting . aptitude learning personnel selection cost estimates Applications Technology Satellites federal budgets USE ATS grants Aqua spacecraft approach (added May 2005) approach approximation approximation methods DEF Second in a series of EOS (Earth . airborne radar approach Observing System) spacecraft developed to adinstrument approach nominal values air traffic control truncation (mathematics) vance the understanding of the ways that the

analysis (mathematics) . numerical analysis

. . . Born approximation

. . approximation

aircraft approach spacing

arrivals

descent flight paths Earth's lands, oceans, air, ice, and life function

as a total environmental system. Aqua studies the Earth's water cycle, including evaporation

from the oceans, water vapor in the atmosphere,

# **Aquarid meteoroids**

clouds, precipitation, soil moisture, sea ice, land ice, and snow cover on the land and ice. The spacecraft carries six instruments: the Atmospheric Infrared Sounder (AIRS), the Advanced Microwave Sounding Unit (AMSU-A), the Humidity Sounder for Brazil (HSB), the Advanced Microwave Scanning Radiometer for EOS (AMSR-E), the Moderate Resolution Imaging Spectroradiometer (MODIS), and Clouds and the Earth's Radiant Energy System (CERES).

EOS PM (satellite) GS artificial satellites

. scientific satellites

. Aqua spacecraft

Earth Observing System (EOS)

Aqua spacecraft

Aura spacecraft

CALIPSO (Pathfinder satellite)

CERES (experiment)

CloudSat

data products

Earth observations (from space)

MODIS (radiometry) remote sensing Terra spacecraft

Aquarid meteoroids

GS celestial bodies

. meteoroid showers

. Aquarid meteoroids

. meteoroids

. Aquarid meteoroids

RT Orionid meteoroids

aquatic plants

RT

Plants growing in or on water. plants (botany) DEF

GS

aquatic plants

phytoplankton aquiculture

hydroponics marine biology

aqueous solutions

GS mixtures . solutions

. aqueous solutions

RT hydrates solvation

aquiculture

The cultivation (breeding, raising, and harvesting) of fish, mollusks, shellfish, and/or other aquatic life as sources of food.

agriculture GS

aquiculture

aquatic plants RT fisheries

fishes hydroponics

marine biology

marine environments

marine resources

marine technology

∞ nutrients tidal flats

aquifers

DEF Bodies of rock that contain sufficient saturated permeable material to conduct ground water and to yield economically significant quantities of ground water to wells and springs.

resources

. Earth resources

. . water resources

. . aquifers

fresh water

gravels ground water hydrogeology

hydrology hydrothermal systems

lakes

limnology oases

permeability

ponds porosity rain sands

springs (water) streams water water tables

Arabian commercial satellite

USE Arcomsat

wells

Arabian Sea

GS seas

Arabian Sea

Indian Ocean

RT Arabsat

artificial satellites GS

Arabsat

international cooperation

Saudi Arabian space program

aragonite

A white, yellowish, or gray orthorhombic mineral, that contains calcium carbonate.

GS calcium compounds

. calcium carbonates

. aragonite carbon compounds

. carbonates

. . calcium carbonates

. aragonite minerals

aragonite

silicon compounds

silicates . aragonite

RT calcite

aramid fiber composites

(added May 1992)

(ARAMID FIBER UTILIZATION IN COMPOSITES. FOR PROPERTIES OF ARAMID FIBERS THEMSELVES USE 'ARAMID FIBERS'), composite materials

fiber composites

. aramid fiber composites

aramid fibers

epoxy matrix composites Kevlar (trademark)

metal matrix composites polyamide resins

polymer matrix composites

reinforced plastics

whisker composites

aramid fibers

RT

(added May 1992)

(PROPERTIES OF ARAMID FIBERS THEMSELVES. FOR ARAMID FIBER UTILIZATION IN COMPOSITES USE 'ARAMID FIBER COMPOSITES'.)

GS fibers

. reinforcing fibers

. . aramid fibers

... Kevlar (trademark)

. synthetic fibers

. . aramid fibers

. . Kevlar (trademark) aramid fiber composites

composite materials

epoxy matrix composites

fiber composites fiber orientation

fiber strength lav-up

plastics polyamide resins reinforced plastics

reinforcing materials resin matrix composites

arc chambers

RT ∞ chambers electric arcs plasma generators

arc clouds

clouds (meteorology) GS

thrust chambers

. convection clouds

. arc clouds

RT cyclogenesis

fronts (meteorology) mesoscale phenomena meteorology observation aircraft satellite observation thunderstorms

arc discharges

GS electric current

. electric discharges

. arc discharges

electric arcs

arc generators

RT electric arcs electric generators electrostatic generators

∞ generators

 induction inductors

plasma generators

spark gaps spark plugs

voltage generators

arc heating

Gerdien arc heaters GS heating

. arc heating

gas heating

image furnaces plasma heating

resistance heating Saha equations

arc jet engines

DEF Electrothermal rocket engines that produce thrust by expanding a hot gas in an appropriate nozzle to a high velocity. The propellant is heated to a higher temperature than can be obtained through combustion processes resulting in higher exhaust velocities and better propellant efficiency.

GS

engines . rocket engines

. . electric rocket engines

... electrothermal engines

. . . . arc jet engines

. . . . pulsed jet engines

RT electric propulsion electrostatic engines

magnetoplasmadynamic thrusters plasma engines

resistojet engines

arc lamps

GS lighting equipment

. luminaires

. arc lamps carbon arcs

light sources

mercury arcs searchlights xenon lamps

arc melting

GS phase transformations

. melting

. arc melting

drop transfer electroslag refining vacuum melting zone melting

arc spraying

plasma arc spraying

GS spraying arc spraying metal spraying

arc welding

GS welding

. fusion welding

. . electric welding ... arc welding

. . . . gas tungsten arc welding

. . . . plasma arc welding electron beam welding heat affected zone

pressure welding

spot welds signals or within the limits of self-contained logic design sputtering massively parallel processors system capability. memory (computers) navigation Arcas rocket vehicles MIMD (computers) . air navigation GS rocket vehicles modularity . area navigation . single stage rocket vehicles multidisciplinary design optimization flight paths . . Arcas rocket vehicles programmable logic devices ground tracks . sounding rockets relational data bases . Arcas rocket vehicles RISC processors Arend-Roland comet radiosondes SIMD (computers) celestial bodies solid propellant rocket engines software development tools ∞ vehicles . Arend-Roland comet supercomputers systolic arrays solar system archaebacteria transputers DEF Organisms belonging to the taxonomic very large scale integration Ares 1 first stage kingdom of the same name which are charac-(added November 2006) terized by distinct t- and r-RNAs, the absence of **Arcomsat** DEF A single, five-segment reusable solid peptoglycan cell walls and their possible re-Arabian commercial satellite rocket booster derived from the Space Shuttle UF placement by a proteinaceous coat, ether-linked Program's reusable solid rocket motor. GS artificial satellites lipids from phytanyl chains, and occurrence in GS launch vehicles communication satellites unusually harsh habitats, e.g., methane, halide . Ares 1 launch vehicle . Arcomsat and thermoacidic environments. These hardy . Ares 1 first stage RT Africa bacteria are significant in the study of the origin rocket vehicles international cooperation of life. . multistage rocket vehicles Saudi Arabian space program . . Ares 1 launch vehicle GS microorganisms Symphonie satellites . bacteria . . Ares 1 first stage synchronous satellites . archaebacteria booster rocket engines bacteriology biological evolution Arcon rocket vehicle Ares 1 launch vehicle GS rocket vehicles paleobiology (added November 2006) Arcon rocket vehicle paleontology DEF An in-line, two-stage rocket configura-RT ∞ vehicles tion topped by the Orion crew exploration vearchaeology hicle, a service module, and a launch abort ∞ arcs anthropology RT ((USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) auroral arcs system. SN cultural resources GS launch vehicles . Ares 1 launch vehicle . . Ares 1 first stage ground penetrating radar curves (geometry) paleomagnetism . . Ares 1 upper stage electric arcs rocket vehicles island arcs . multistage rocket vehicles
. . Ares 1 launch vehicle archaeomagnetism magnetic annular arc (added April 1999) plasma jets USE paleomagnetism ... Ares 1 first stage red arcs . Ares 1 upper stage arches RT Ares 5 cargo launch vehicle Arctic environments RT perforated shells Constellation program USE ice environments rigid structures Crew Exploration Vehicle shells (structural forms) Arctic Ocean trusses Ares 1 upper stage (added November 2006) GS oceans **Arctic Ocean** archipelagoes Second stage of the Ares 1 launch Barents Sea Beaufort Sea (North America) Seas or areas in seas that contain vehicle incorporating a J-2X liquid oxygen/ numerous islands; also the island groups themhydrogen main engine. Greenland selves. GS launch vehicles RT Aleutian Islands (US) polynyas . Ares 1 launch vehicle islands Spitsbergen (Norway) . Ares 1 upper stage landforms rocket vehicles **Arctic regions** seas . multistage rocket vehicles Northern Hemisphere Spitsbergen (Norway) . . Ares 1 launch vehicle . Arctic regions Virgin Islands . Ares 1 upper stage . subarctic regions Crew Exploration Vehicle regions architecture . polar regions RT acoustics upper stage rocket engines . . Arctic regions buildings . . . subarctic regions construction Ares 5 cargo launch vehicle . remote regions ∞ construction materials (added November 2006) .. Arctic regions human factors engineering DEF A two-stage heavy-lift launch vehicle . subarctic regions illuminating comprised of a first stage having two five-Chukchi Sea plant design segment reusable rocket boosters and a single climatology Starsite program liquid-fueled core propulsion booster; and an geography muskegs structural design upper stage (Earth Departure Stage) propelled ∞ structures by a J-2X main engine. nunataks GS launch vehicles ozone depletion architecture (computers) . heavy lift launch vehicles DEF The design of system and logic orgapolar caps . . Ares 5 cargo launch vehicle nization and information flow relationships in a Siberia rocket vehicles computer rather than the circuit and component tundra . multistage rocket vehicles features. . Ares 5 cargo launch vehicle computer architecture RT Altair Lunar Lander GS architecture (computers) RT ∞ cross sections Ares 1 launch vehicle service oriented architecture geometry booster rocket engines Constellation program client server systems integral calculus computer components line of sight J-2 engine computer design ∞ sectors concurrent processing ∞ surfaces ARES (spacecraft) Connection Machine volume USE Advanced Reconn Electric distributed memory Spacecraft area navigation distributed processing DEF A method of navigation that permits aircraft operation on any desired course within the coverage of station-referenced navigation hypercube multiprocessors Argentina

local area networks

logic circuits

nations

. Argentina

GS

# Argentine space program

Argentine space program satellite doppler positioning GS artificial satellites South America . Ariel satellites Argosy MK-1 aircraft . . Ariel 2 satellite Argentine space program GS Hawker Siddeley aircraft Argosy MK-1 aircraft Ariel 3 satellite (added May 1989) GS artificial satellites programs jet aircraft . Ariel satellites space programs . turboprop aircraft Argentine space program Argosy MK-1 aircraft . . Ariel 3 satellite monoplanes Argentina Ariel 4 satellite Argosy MK-1 aircraft Argo rocket vehicles transport aircraft GS artificial satellites . Ariel satellites GS rocket vehicles Argosy MK-1 aircraft . . Ariel 4 satellite . multistage rocket vehicles RT ∞ aircraft . scientific satellites . Argo rocket vehicles . . UK satellites arguments (mathematics) Honest John rocket vehicle . . Ariel 4 satellite Javelin rocket vehicle USE independent variables ionospheric electron density Nike-Ajax missile solid propellant rocket engines Argus project ionospheric sounding sounding rockets GS programs Ariel 5 satellite ∞ vehicles . projects DEF One in a series of artificial satellites . Argus project launched for Britain by the United States.

GS artificial satellites thermonuclear explosions argon RT chemical elements . Ariel satellites . rare gases Ariane 4 launch vehicle . . Ariel 5 satellite (added April 1995) . . argon . scientific satellites GS launch vehicles . . . argon isotopes . . UK satellites gases . Ariane launch vehicle ... Ariel 5 satellite . rare gases Ariane 4 launch vehicle European space programs . . argon Ariel satellites space commercialization . argon isotopes GS artificial satellites radiation trapping . Ariel satellites Ariane 5 launch vehicle . . Ariel 1 satellite argon isotopes (added April 1995) . . Ariel 2 satellite GS chemical elements GS launch vehicles . . Ariel 3 satellite . Ariane launch vehicle . nuclides . Ariel 4 satellite . . isotopes . Ariane 5 launch vehicle . Ariel 5 satellite argon isotopes Automated Transfer Vehicle geophysical satellites Thor Delta launch vehicle . rare gases European space programs space commercialization . . argon ... argon isotopes Aries constellation Ariane launch vehicle gases GS constellations launch vehicles . rare gases . Aries constellation . Ariane launch vehicle . . argon celestial bodies . . Ariane 4 launch vehicle ... argon isotopes celestial sphere . Ariane 5 launch vehicle stars Eldo launch vehicle argon lasers Europa launch vehicles GS stimulated emission devices Aries sounding rocket European Space Agency . lasers The largest in terms of weight and . argon lasers European space programs volume of the sounding rockets. It has a 44 inch chemical lasers Geosari project RT payload capacity. continuous wave lasers GS rocket vehicles arid lands gas masers . sounding rockets infrared lasers GS land . . Aries sounding rocket Mach-Zehnder interferometers arid lands barren land molecular oscillations Arietid meteoroids Death Valley (CA) pulsed lasers GS celestial bodies desertification Q switched lasers . meteoroid showers desertline stimulated emission . . Arietid meteoroids deserts . meteoroids argon plasma drought . . Arietid meteoroids GS particles Earth environment . charged particles Earth resources ARIP (impact prediction) . . energetic particles equatorial regions computerized simulation . . . plasmas (physics) Gobi desert impact prediction . . . . argon plasma Mojave Desert (CA) . corpuscular radiation oases ARIS instrumentation ship . . energetic particles Sahara Desert (Africa) **Advanced Range Instrumentation** . . . plasmas (physics) soils Ship . argon plasma steppes RT helium plasma wadis arithmetic hydrogen plasma number theory GS oxygen plasma Ariel . arithmetic A satellite of Uranus orbiting at a mean . . double precision arithmetic argon-oxygen atmospheres distance of 192,000 kilometers. . . fixed point arithmetic controlled atmospheres GS celestial bodies . floating point arithmetic argon-oxygen atmospheres . natural satellites addition aerospace environments . . icy satellites calculators ∞ atmospheres ... Áriel computation . . Uranus satellites ∞ breathing dividing (mathematics) gas mixtures . Ariel exponents portable life support systems RT Uranus (planet) integers underwater breathing apparatus multiplication Ariel 1 satellite subtraction Argos system UF S-51 satellite sums networks GS artificial satellites GS . satellite networks . Ariel satellites arithmetic and logic units ALU (computer components) . . Ariel 1 satellite . . Argos system data collection platforms UF logic units data transmission Ariel 2 satellite computer components

UF S-52 satellite

central processing units

ocean data acquisitions systems

. . arithmetic and logic units ordnance ranking protective clothing computers shielding double precision arithmetic ∞ arresters logic circuits (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) arms (robotics) SN Arizona USE robot arms nations arresting gear Army-Navy instrumentation program . United States blocking programs . Arizona brakes (for arresting motion) . Army-Navy instrumentation Colorado Plateau (US) Colorado River (North America) program lightning loaistics Grand Canyon (AZ) Phoenix (AZ) military technology arresting gear Phoenix quadrangle (AZ) GS landing aids AROD (range-orbit determination) . arresting gear airborne range and orbit Arkansas safety devices determination GS nations arresting gear . United States abort apparatus ∞ aromatic compounds . . Arkansas aircraft carriers (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS aircraft safety arm (anatomy) LISTED BELOW)
aryl compounds antiskid devices GS anatomy ∞ arresters RT ∞ chemical compounds . limbs (anatomy) ∞ barriers . . arm (anatomy) chloroaromatics brakes (for arresting motion) ... elbow (anatomy) furfuryl alcohol crash landing . . . forearm hydrocarbons methylidyne appendages . arm (anatomy) organic compounds arrhythmia . . elbow (anatomy) polycyclic aromatic hydrocarbons DEF Absence of rhythm, as, for example, in . forearm heart beat. humerus Aroos meteorite rates (per time) scapula GS celestial bodies . heart rate . meteorites ulna . . arrhythmia wrist . . iron meteorites . . . Aroos meteorite arrivals ARMA (mathematics) RT approach (added October 1997) arousal landing autoregressive moving average RT alertness electroencephalography arrow wings armatures ∞ stimuli DEF Aircraft wings of V-shaped planform, RT commutators either tapering or of constant chord, suggesting electric generators ARPA computer network a stylized arrowhead. electric motors The "Advanced Research Projects GS airfoils Agency" of the Department of Defense nation-wide computer network incorporating digital electric relays . wings induction motors . . swept wings communication between large numbers of dis-similar computers as well as direct access to ∞ rotating electrical machines . . . sweptback wings rotors arrow wings programs, data, storage, etc. shared by all terplanforms armed forces minals . wing planforms armed forces GS GS networks . . sweptback wings . armed forces (foreign) . communication networks ... arrow wings . armed forces (United States) . . internets . . . ARPA computer network caret wings . navy delta wings RT ∞ military aircraft . computer networks variable sweep wings ∞ military aviation . . internets military spacecraft . . ARPA computer network arroyos military vehicles computer techniques GS landforms tanks (combat vehicles) queueing theory . arrovos satellite communication canvons armed forces (foreign) spacecraft communication drainage patterns GS armed forces switching circuits erosion armed forces (foreign) telecommunication limnology disarmament VSAT (network) rain impact damage enemy personnel water ∞ military aircraft ARQ (communication) water currents military technology USE automatic repeat request water erosion ∞ military vehicles weapons arrays arsenates arrays GS arsenic compounds armed forces (United States) . antenna arrays arsenates armed forces . . linear arrays arsenides armed forces (United States) ... endfire arrays ∞ oxygen compounds defense program . . . . Yagi antennas disarmament . . . multispectral linear arrays arsenic ∞ military aircraft . . steerable antennas 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 . multi-anode microchannel arrays arsenic alloys Armenia . phased arrays (added August 1993) . solar arrays GS alloys GS nations . solar blankets arsenic alloys Armenia . synthetic arrays metalloids RT systolic arrays Asia RT antennas arsenic compounds Europe GS arsenic compounds focal plane devices matrices (mathematics) . arsenates armor

photomasks

pushbroom sensor modes

helmets

metal plates

. arsenides

. . aluminum arsenides

## arsenic isotopes

. . . aluminum gallium arsenides arthritis dredging ... indium aluminum arsenides marine technology bones . . gallium arsenides calcification oceanography . aluminum gallium arsenides joints (anatomy) offshore docking . . . indium gallium arsenides rheumatic diseases offshore platforms . . indium arsenides ship terminals ... indium aluminum arsenides arthropods tanker ships . . . indium gallium arsenides GS animals tanker terminals . proustite . invertebrates ∞ tankers RT ∞ chemical compounds . . arthropods terminal facilities ∞ Group 5A compounds . . . artemia transportation . . . crabs arsenic isotopes . . . insects GS chemical elements . . . . bees artificial heart valves . metalloids . . . . bollworms GS medical equipment . . arsenic chironomus flies artificial heart valves ... arsenic isotopes . . . . cockroaches valves . nuclides .... Coleoptera . heart valves . . isotopes . . . . beetles . artificial heart valves ... arsenic isotopes . tribolia RT biotechnology . . . . . boll weevils metals blood circulation . . . . crickets radioactive isotopes blood pumps Drosophila heart arsenides fireflies heart implantation GS arsenic compounds . . . . grasshoppers . arsenides . . . . locusts . . aluminum arsenides . . . . moths artificial intelligence . aluminum gallium arsenides . . . . . silkworms DEF A discipline concerned with the devel-... indium aluminum arsenides . . spiders opment of computer and extended-robotic sys-. . gallium arsenides exoskeletons tems that can exhibit intelligent action. May also . . . aluminum gallium arsenides . . . indium gallium arsenides larvae be defined as a subfield of computer science concerned with concepts and methods of sym-. . indium arsenides articulation (speech) bolic inference by a computer and the symbolic ... indium aluminum arsenides GS speech representation of the knowledge to be used in articulation (speech) ... indium gallium arsenides making inferences. . proustite RT languages machine recognition RT speech defects arsenates GS intelligence intermetallics . artificial intelligence artifacts automata theory anthropology artemia RT backpropagation (artificial intelligence) GS animals antiquities belief networks . invertebrates culture (social sciences) bionics . . arthropods museums character recognition artemia cognition artificial cardiac pacemaker computer vision medical equipment arteries computers decision support systems artificial cardiac pacemaker GS anatomy . circulatory system biotechnology depersonalization . . cardiovascular system blood circulation expert systems ... blood vessels cardiology genetic algorithms . . . . arteries circulatory system hypertext . . . . . aorta heart information processing (biology) heart conduction system . . . . arterioles intellect RT arteriosclerosis pulmonary circulation knowledge based systems bifurcation (biology) knowledge bases (artificial artificial clouds carotid sinus body intelligence) GS clouds (meteorology) carotid sinus reflex knowledge representation artificial clouds phonoarteriography ∞ logic sphygmography . . chemical clouds logic programming . . barium ion clouds machine learning RT weather modification natural language processing arterioles perception (added August 2004) artificial ears pilot support systems medical equipment The smallest divisions of the arteries GS predicate calculus . prosthetic devices located between the muscular arteries and the predicate logic . . artificial ears Prolog (programming language) GS anatomy RT ear robotics . circulatory system . . cardiováscular system artificial gravity self organizing systems ... blood vessels DEF A simulated gravity established within theorem proving . . . . arteries a space vehicle by rotation or acceleration. voice data processing GS gravitation .... arterioles arteriosclerosis artificial gravity bifurcation (biology) acceleration stresses (physiology) ∞ astronautics artificial radiation belts capillaries (anatomy) environmental control GS particles arteriosclerosis gravity gradient satellites . charged particles atherosclerosis human centrifuges . . magnetically trapped particles GS diseases life support systems ... radiation belts lower body negative pressure arteriosclerosis .... artificial radiation belts rotating environments . corpuscular radiation angina pectoris spin dynamics arteries . . radiation belts arterioles weightlessness . artificial radiation belts cholesterol . trapped particles . magnetically trapped particles circulatory system artificial harbors GS waterways . . . radiation belts coronary artery disease .... artificial radiation belts inner radiation belt myocardial infarction . harbors . artificial harbors arthritis RT cargo ships nuclear explosions

deepwater terminals

outer radiation belt

GS

diseases

∞ radiation	HEOS A satellite	OSO-C
	HEOS B satellite	Polar/GGS spacecraft
artificial respiration	Hipparcos satellite	Radiation and Meteoroid satellite
USE resuscitation	Infrared Space Observatory (ISO)	Sputnik 3 satellite
	L-Sat	Vanguard 3 satellite
artificial satellites	Magellan ultraviolet astronomy	Wind/GGS spacecraft
DEF Man-made satellites.	satellite	. GEOS-D satellite
GS artificial satellites	Marecs maritime satellites	<ul> <li>gravity gradient satellites</li> </ul>
. active satellites	Marots (ESA)	ATS
SYNCOM satellites	METEOSAT satellite	ATS 1
Early Bird satellites	OTS (ESA)	ATS 2
SYNCOM 1 satellite	TD satellites	ATS 3
SYNCOM 2 satellite	TD-1 satellite	ATS 4
SYNCOM 3 satellite	Envisat-1 satellite	ATS 5
SYNCOM 4 satellite	XMM-Newton telescope	ATS 6
. Alouette satellites	. European 1 spacecraft	ATS 7
Alouette 1 satellite	. evasive satellites	ATS 8
Alouette 2 satellite	. French satellites	ORBIS CAL satellite
Alouette B satellite	D-1 satellite	. GREB satellites
. Arabsat	D-2 satellites	. Helios satellites
. Ariel satellites	EOLE satellites	Helios 1
Ariel 1 satellite	FR-1 satellite	Helios 2
Ariel 2 satellite	GEOLE satellites	Helios A
Ariel 3 satellite	PEOLE satellites	Helios B
Ariel 4 satellite	Poseidon satellite	. Injun satellites
Ariel 5 satellite	SPOT (French satellite)	Explorer 25 satellite
. BESS (satellite)	SRET satellites	Injun 1 satellite
. biosatellites	SRET 1 satellite	Injun 3 satellite
Biosatellite 1	SRET 2 satellite	Injun 4 satellite
Biosatellite 2	. geodetic satellites	. INMARSAT satellites
Biosatellite 3	ANNA satellites	. Inspector satellite
Orbiting Frog Otolith	Explorer 29 satellite	. IRIS satellites
Sputnik 2 satellite	Explorer 36 satellite	. ISIS satellites
. communication satellites	GEOLE satellites	Alouette 2 satellite
ACTS	GEOS 1 satellite	ISIS-A
aeronautical satellites	GEOS 2 satellite	ISIS-B
Aerosat satellites	GEOS 3 satellite	ISIS-X
Arcomsat	Geosat satellites	. Landsat satellites
Communications Technology	LARGOS satellite	Landsat 1
Satellite	PAGEOS satellite	Landsat 2
ComStar C	Vanguard 1 satellite	Landsat 3
NATO 3B satellite	. geophysical satellites	Landsat 4
ComStar satellites	Cosmos satellites	Landsat 5
direct broadcast satellites	Cosmos 2 satellite	Landsat 6
European Communications	Cosmos 3 satellite	Landsat 7
Satellite	Cosmos 5 satellite	Landsat E
Intelsat satellites	Cosmos 6 satellite	Landsat F
low frequency transionospheric	Cosmos 14 satellite	. Lincoln Experimental Satellites
satellites	Cosmos 44 satellite	. lunar satellites
L-Sat	Cosmos 54 satellite	Explorer 18 satellite
Marecs maritime satellites	Cosmos 71 satellite	Explorer 28 satellite
Marots (ESA)	Cosmos 110 satellite	IMP
Molniya satellites	Cosmos 137 satellite	Lunar Orbiter
MSAT	Cosmos 144 satellite	Lunar Orbiter 1
Palapa satellites	Cosmos 149 satellite	Lunar Orbiter 2
Palapa 2 satellite	Cosmos 166 satellite	Lunar Orbiter 3
Raduga satellite	Cosmos 186 satellite	Lunar Orbiter 4
RCA Satcom satellites	Cosmos 188 satellite	Lunar Orbiter 5
. Relay satellites	Cosmos 206 satellite	Lunar Prospector
Relay 1 satellite	Cosmos 213 satellite Cosmos 224 satellite	orbiting lunar stations
Relay 2 satellite	Cosmos 224 satellite	. Mapsat . Marisat satellites
Symphonie satellites		. Marisat 1 satellite
SYNCOM satellites Early Bird satellites	Cosmos 381 satellite Cosmos 954 satellite	. maritime satellites
SYNCOM 1 satellite	Cosmos 1129 satellite	ERS-1 (ESA satellite)
SYNCOM 2 satellite	Intercosmos satellites	Marecs maritime satellites
SYNCOM 2 satellite	Explorer 6 satellite	Marets (ESA)
SYNCOM 4 satellite		
TDR satellites	Explorer 10 satellite Explorer 12 satellite	. meteorological satellites AEROS satellite
Westar satellites	. Explorer 45 satellite	Cosmos 144 satellite
. COSPAS	OGO	D-2 satellites
. Courier satellite	EGO	DMSP satellites
. Diademe satellites	OGO-3	Elektron satellites
. Discoverer satellites	OGO-5	Elektron 1 satellite
. Dodge satellite	OGO-3	Elektron 2 satellite
. EROS (satellites)	POGO	Elektron 4 satellite
. 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-1	ESSA 5 satellite
. ESRO 4 satellite	OSO-2	ESSA 6 satellite
European Communications	OSO-4	ESSA 7 satellite
Satellite	OSO-5	ESSA 8 satellite
Exosat satellite	OSO-6	ESSA 9 satellite
. GEOS satellites (ESA)	OSO-7	Explorer 9 satellite
HEOS satellites	OSO-8	Explorer 17 satellite

## artificial satellites

Explorer 19 satellite	NAVSTAR satellites	ATS 7
GEOLE satellites	Nova satellites	ATS 8
GOES satellites	Refsat	Azur satellite
GOES 1	Transit Attitude Control satellite	Cannonball 2 satellite
GOES 2	Transit satellites	CRRES (satellite)
GOES 3	. orbital workshops	DIAL satellite
GOES 4	Saturn workshops	Environmental Research Satellites
GOES 5	Saturn 1 workshop	ERS 17
GOES 6	Saturn 5 workshop	ERS 18
GOES 7	Skylab 1	Intasat satellite
GOES 8	Skylab 2	EXOS satellites
GOES 9 GOES 10	Skylab 3 Skylab 4	EXOS-A satellite
GOES 10	. PAS	EXOS-B satellite
METEOSAT satellite	. passive satellites	EXOS-C satellite EXOS-D satellite
Nimbus satellites	Beacon satellites	Exosat satellite
Nimbus 1 satellite	Beacon Explorer A	Explorer satellites
Nimbus 2 satellite	Explorer 22 satellite	Applications Explorer Satellites
Nimbus 3 satellite	Echo satellites	Cosmic Background Explorer
Nimbus 4 satellite	Echo 1 satellite	satellite
Nimbus 5 satellite	Echo 2 satellite	Dual Air Density Explorer
Nimbus 6 satellite Nimbus 7 satellite	LAGEOS (satellite) PAGEOS satellite	Dynamics Explorer satellites
NOAA satellites	. Pegasus satellites	Dynamics Explorer 1 satellite
NOAA 2 satellite	. Polyot satellites	Dynamics Explorer 2 satellite
NOAA 3 satellite	. ROSAT mission	Explorer 1 satellite
NOAA 4 satellite	. SAGE satellite	Explorer 2 satellite
NOAA 5 satellite	. Samos	Explorer 3 satellite
NOAA 6 satellite	. SarSat	Explorer 4 satellite
NOAA 7 satellite	. scientific satellites	Explorer 5 satellite
NOAA 8 satellite	AMPTE (satellites)	Explorer 6 satellite
NOAA 9 satellite NOAA 10 satellite	astronomical satellites Astronomical Netherlands	Explorer 7 satellite Explorer 8 satellite
NOAA 10 satellite	Satellite	Explorer 9 satellite
NOAA 12 satellite	Gamma Ray Observatory	Explorer 10 satellite
NOAA 14 satellite	Ginga satellite	Explorer 11 satellite
San Marco satellites	HEAO	Explorer 12 satellite
San Marco 1 satellite	HEAO 1	Explorer 14 satellite
San Marco 2 satellite	HEAO 2	Explorer 15 satellite
San Marco 3 satellite	HEAO 3	Explorer 16 satellite
SEOCS (satellite)	HEAO 4	Explorer 17 satellite
SIRS B satellite	Hubble Space Telescope	Explorer 18 satellite
Sputnik 1 satellite Sputnik 2 satellite	Infrared Astronomy Satellite Infrared Space Observatory (ISO)	Explorer 19 satellite Explorer 20 satellite
Sputnik 2 satellite	Infrared Space Observatory (ISO) IUE	Explorer 20 satellite
SRET satellites	Large Deployable Reflector	Explorer 21 satellite
SRET 1 satellite	Magellan ultraviolet astronomy	Explorer 23 satellite
SRET 2 satellite	satellite	Explorer 24 satellite
Synchronous Earth Observatory	OAO	Explorer 25 satellite
satellite	OAO 1	Explorer 26 satellite
SMS 1	OAO 2	Explorer 27 satellite
SMS 2 Synchronous Meteorological	OAO 3 OSO	Explorer 28 satellite Explorer 29 satellite
Satellite	AOSO	Explorer 30 satellite
SMS 1	OSO-1	Explorer 31 satellite
SMS 2	OSO-2	Explorer 32 satellite
TIROS satellites	OSO-3	Explorer 33 satellite
ITOS satellites	OSO-4	Explorer 34 satellite
ITOS 1	OSO-5	Explorer 35 satellite
ITOS 2	080-6	Explorer 36 satellite
ITOS 3 ITOS 4	OSO-7 OSO-8	Explorer 37 satellite
TIROS 1 satellite	OSO-6	Explorer 38 satellite Explorer 39 satellite
TIROS 2 satellite	Quasat	Explorer 40 satellite
TIROS 3 satellite	SAS	Explorer 41 satellite
TIROS 4 satellite	Explorer 53 satellite	Explorer 43 satellite
TIROS 5 satellite	SAS-1	Explorer 44 satellite
TIROS 6 satellite	SAS-2	Explorer 45 satellite
TIROS 7 satellite	SAS-3	Explorer 46 satellite
TIROS 8 satellite TIROS 9 satellite	Constellation-X	Explorer 47 satellite
TIROS 9 satellite	Fermi Gamma-ray Space Telescope	Explorer 48 satellite Explorer 49 satellite
TIROS M	James Webb Space Telescope	Explorer 50 satellite
TIROS N series satellites	LISA (observatory)	Explorer 51 satellite
NOAA 6 satellite	Space Infrared Telescope Facility	Explorer 52 satellite
TRMM satellite	Spartan satellites	Explorer 53 satellite
Vanguard 2 satellite	Submillimeter Wave Astronomy	Explorer 54 satellite
. Midas satellites	Satellite	Explorer 55 satellite
Midas 2 satellite	Swift observatory	Extreme Ultraviolet Explorer
Midas 3 satellite Midas 4 satellite	Tenma satellite X Ray Astrophysics Facility	satellite Far UV Spectroscopic Explorer
Midas 4 satellite	X May Astrophysics Facility	IMP
Midas 5 satellite	ATS	International Magnetospheric
Midas 7 satellite	ATS 1	Explorer
. Multispectral Resource Sampler	ATS 2	International Sun Earth Explorers
navigation satellites	ATS 3	International Sun Earth Explorer
Aerosat satellites	ATS 4	1
Explorer 22 satellite	ATS 5	International Sun Earth Explorer
navigation technology satellites	ATS 6	2

# ascent propulsion systems

International Sun Earth Explorer	Intercosmos satellites		Vanguard 2 satellite
3 Advanced Composition Evalurer	Granat satellite		Vanguard 3 satellite . Engineering Test Satellites
Advanced Composition Explorer IMAGE satellite	Molniya satellites Prognoz satellites		. microsatellites
Micrometeoroid Explorer satellites	Prognoz satellites		. nanosatellites
•	Proton 1 satellite		. Terra spacecraft
Radio Astronomy Explorer satellite	Proton 2 satellite		. Vela satellites
Solar Mesosphere Explorer	Proton 3 satellite	RT	flexible spacecraft
Submillimeter Wave Astronomy	Proton 4 satellite		inflatable spacecraft
Satellite	Raduga satellite		interplanetary spacecraft
Transition Region and Coronal	Sputnik satellites		lunar orbits
Explorer	Sputnik 1 satellite		lunar spacecraft
Uhuru satellite	Sputnik 2 satellite		maneuverable spacecraft manned spacecraft
X Ray Timing Explorer	Sputnik 3 satellite		military spacecraft
Geopotential Research Mission	Sputnik 4 satellite		National Oceanic Satellite System
Hawkeye satellites	Sputnik 5 satellite		natural satellites
Long Duration Exposure Facility	Venera satellites		observatories
. LZEEBE satellite	Venera 2 satellite		orbits
MagSat satellites	Venera 3 satellite Venera 4 satellite		reconnaissance spacecraft
MagSat 1 satellite Magsat A satellite	Venera 4 satellite		satellite sounding
MagSat A satellite	Venera 6 satellite	۰	∘ satellites
. ORBIS	Venera 7 satellite		space capsules
ORBIS CAL satellite	Venera 8 satellite		space laboratories
OV-1 satellites	Venera 9 satellite		Telstar project unmanned spacecraft
OV-2 satellites	Venera 10 satellite		ulillalilled spaceciali
OV-3 satellites	Venera 11 satellite	artillery	,
OV-4 satellites	Venera 12 satellite	GS	weapons
OV-5 satellites	. space stations	0.0	. guns (ordnance)
SCATHA satellite	Automatic Universal Orbiting		artillery
small scientific satellites	Stations		howitzers
Submillimeter Wave Astronomy	Columbus space station		precision guided projectiles
Satellite Transition Region and Coronal	Halo Orbit space station International Space Station	RT	gun launchers
Explorer	man tended free flyers		gunnery training
UK satellites	Mir space station		missiles
Ariel 4 satellite	orbiting lunar stations		rifles
Ariel 5 satellite	Salyut space station		Sabot projectiles
Miranda satellite	Skylab 1	autilla.	. fine
UK 4 satellite	Skylab 2	artillery	v tire ∞ barrages
Aqua spacecraft	Skylab 3	nı °	gunfire
Aura spacecraft	Skylab 4		guillie
CALIPSO (Pathfinder satellite)	Space Operations Center (NASA)	arts	
CloudSat	Space Station Freedom	GS	arts
Glory Mission satellite	space station polar platforms	0.0	. graphic arts
Ice, Cloud and Land Elevation Satellite	. synchronous satellites AEROS satellite		animation
Polar/GGS spacecraft	Aerosat satellites		computer animation
QuikSCAT satellite	Anik satellites	RT	creativity
TRMM satellite	Anik 1		music
Upper Atmosphere Research	Anik 2		
Satellite (UARS)	Anik 3	Aryabha	
Wind/GGS spacecraft	GOES satellites	USE	Indian spacecraft
. SCORE satellite	GOES 1	and cor	mounds
. SEASAT satellites	GOES 2		npounds aromatic compounds
SEASAT 1	GOES 3	OOL	aromatic compounds
SEASAT-B satellite	GOES 4	ASA	
Skynot catallites	GOES 5 GOES 6	USE	acetylsalicylic acid
. Skynet satellites . Snapshot satellite	GOES 6	002	accipionne, no mana
. solar power satellites	GOES 8	asbesto	os
. Solar Radiation 1 satellite	GOES 9	GS	minerals
. Solar Radiation 3 satellite	GOES 10		. asbestos
. Soviet satellites	GOES 13	RT	Amberlite (trademark)
Cosmos 782 satellite	Miranda satellite		electrical insulation
Cosmos 936 satellite	SIRIO satellite		insulation
Cosmos satellites	StormSat satellite		nonflammable materials
Cosmos 2 satellite	Synchronous Earth Observatory		serpentine
Cosmos 3 satellite	satellite		thermal insulation
Cosmos 5 satellite	SMS 1	ascent	
Cosmos 6 satellite Cosmos 14 satellite	SMS 2 Synchronous Meteorological	GS	ascent
Cosmos 14 satellite	Satellite	ao	. climbing flight
Cosmos 54 satellite	SMS 1	RT	balloons
Cosmos 71 satellite	SMS 2		descent
Cosmos 110 satellite	SYNCOM satellites		Lunar Module Ascent Stage
Cosmos 137 satellite	Early Bird satellites		takeoff
Cosmos 144 satellite	SYNCOM 1 satellite		
Cosmos 149 satellite	SYNCOM 2 satellite		propulsion systems
Cosmos 166 satellite	SYNCOM 3 satellite	GS	propulsion
Cosmos 186 satellite	SYNCOM 4 satellite		. ascent propulsion systems
Cosmos 188 satellite	TD satellites		propulsion system configurations
Cosmos 206 satellite Cosmos 213 satellite	TD-1 satellite . Telstar satellites	RT	. ascent propulsion systems Lunar Module
Cosmos 213 satellite Cosmos 224 satellite	. Telstar satellites	n i	missiles
Cosmos 224 satellite	Telstar 1 satellite		propellants
Cosmos 381 satellite	. tethered satellites		rocket propellants
Cosmos 954 satellite	. Vanguard satellites		space flight
Cosmos 1129 satellite	Vanguard 1 satellite		Space Shuttle Ascent Stage

0	o systems		ongolia		I, in which the predominating constitu- e bitumens which occur in nature or are
ascent	trajectories		itions epal		d in petroleum processing.
	trajectories		orth Korea	GS	products
	. ascent trajectories		akistan	ao	. petroleum products
RT	ballistic trajectories		apua New Guinea		asphalt
	climbing flight		atar	RT	amorphous materials
	coasting flight	Re	ed Sea		pavements
	descent trajectories	R	ussian Federation		pitch (material)
	flight mechanics	Sa	audi Arabia		tars
	guidance (motion)	Se	ea of Japan		
	injection guidance		beria	asphalt	
	lofting		kkim		Components of bitumens that are
	Lunar Module Ascent Stage		ngapore		in carbon disulphide but not in paraffin
	midcourse trajectories		outh Korea		, constitute the solid dispersed particles
	missile trajectories		outheast Asia		vitumens, and consist of high molecular
	orbit insertion		outhern Yemen		nydrocarbons.
	parabolic flight		i Lanka ·	NI.	coal
	post boost propulsion system		ıria ·		coal derived liquids
	rendezvous trajectories		iwan		coal liquefaction
	spacecraft trajectories		ıjikistan		hydrogenation
ascorbi	c acid		nailand	asphere	es
UF	vitamin C		oet odro	USE	aspheric optics
GS	acids		ndra	002	dopilorio optioo
ao	. ascorbic acid		ırkmenistan	aspheri	ic optics
	organic compounds		S.S.R. zbekistan		ed June 1995)
	. cyclic compounds		etnam	ĎEF	Lenses whose surfaces are custom
	heterocyclic compounds		emen	tuned to	specific applications, thereby correcting
	ascorbic acid	16	enen	aberrati	ons in an optical system.
	vitamins	ASIC		UF	aspheres
	ascorbic acid		pplication specific integrated		asymmetrical optics
	. 4000.2.0 40.4	00L u	circuits		nonspherical optics
ascorbi	c acid metabolism		ondato	GS	lenses
GS	metabolism	aspartates	1		. aspheric optics
	. ascorbic acid metabolism		opolymers	RT	asphericity
RT	vitamins		proteins		laser fusion
			aspartates		lens design
ASCR r	eactor		ters		optical materials
USE	advanced sodium cooled reactor	. 8	spartates	۰	∘ optics
		or	ganic compounds		
ASDE			proteins	aspheri	
USE	airport surface detection		aspartates	RT	aberration
	equipment	RT ar	nino acids		aspheric optics
		as	partic acid		geometrical optics
	erodynamics)			۰	optics
USE	aeroservoelasticity	aspartic a			refraction
			ids		spheres
ashes			amino acids	asphyx	ia
GS	ashes		aspartic acid	RT	anoxia
рт	. fly ash		carboxylic acids		respiration
RT	air pollution		aspartic acid		signs and symptoms
	coal		ganic compounds		eigne and eympteme
	combustion products cultivation		amino acids	aspiratio	on
	fertilizers		aspartic acid	ÜSE	vacuum
	fire damage		carboxylic acids		
	forest fires		aspartic acid	ASRM (	
	lignite		partates eptides	USE	Advanced Solid Rocket Motor
	reaction products	pe	plides		(STS)
	residues	aspect rat	in	40000	\!
			general, the ratio of one dimension		engine engines
Asia			. In aeronautics, the ratio of the	ds	. rocket engines
GS	continents		ne span of an airfoil to the total airfoil		0
	. Asia		e ratio of its span to its mean chord.		solid propellant rocket engines ASROC engine
RT	Afghanistan		enderness ratio	RT	antisubmarine warfare
	Armenia	GS ra	tios		torpedoes
	Azerbaijan	. 8	spect ratio		torpodoco
	Bangladesh		fineness ratio	Assatea	ague Island (MD-VA)
	Brunei		high aspect ratio	GS	
	Burma		low aspect ratio		. islands
	Cambodia		thickness ratio		Assateague Island (MD-VA)
	China		erodynamic characteristics	RT	Atlantic Ocean
	Commonwealth of Independent	ai	foils		Maryland
	States		mensional analysis		Virginia
	Georgia (Eurasia)		mensional stability		
	Himalayas	lift		assaulti	
	Hong Kong	∞ sp		USE	attacking (assaulting)
	India		ructural stability		
	Iran	Wi	ngs	assayin	
	Iraq	A	_	RT	chemical analysis
	Israel	Aspergillu			immunoassay
	Japan Kazakhstan		ants (botany)		Mars surface samples
	Kuwait		ungi Asparaillus		particulate sampling
	Kyrgyzstan		Aspergillus fectious diseases		radioimmunoassay
	Laos	KI IN ∞m			sampling
	Lebanon	∞ [[]	oid	assamh	oler routines
	Malaysia	asphalt			computer programming
	Middle East		dark brown to black cementitious	30	. assembler routines

computer programs lifting reentry vehicles reliability . computer systems programs assembler routines **ASSET** project **Assured Crew Return Vehicle** RT compilers GS programs disk operating system (DOS) . projects operating systems (computers) ASSET project aerothermodynamics assemblies environmental tests GS assemblies subassemblies assignment **ACRV** USE allocations . tail assemblies GS . . horizontal tail surfaces . . sweptback tail surfaces assimilation . . swing tail assemblies dispersing distributing T tail surfaces . trapezoidal tail surfaces ∞ distribution lifeboats RT accumulations material absorption rescue operations assembling  $\infty$  assembly association reactions collocation DEF Gas phase chemical processes in components which two molecular species A and B react to fabrication form a larger molecule AB. In astrophysics these mosaics processes are involved in the "condensation" of strings small gaseous molecules into larger species. astatine chemical reactions GS GS . association reactions assembling . halogens gas-gas interactions assembling GS association reactions orbital assembly metals RT astrophysics chemical equilibrium self assembly . astatine RT assemblies condensing  $\infty$  assembly astatine isotopes endothermic reactions ∞ attachment clean rooms exothermic reactions . nuclides collection interstellar chemistry . . isotopes construction molecular gases fabrication molecular interactions oxidation fitting metals installing photochemical reactions ∞ joining photooxidation reaction kinetics mounting preparation vapor phases rigging space manufacturing associations USE organizations ∞ assembly (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) associative memory SN (added December 1999) A method or device for data storage in which data is identified by a part or properties of assembling its content, rather than by an address or relative collocation position. self assembly UF associative storage content-addressable memory Assembly language memory (computers) GS GS languages associative memory . programming languages RT associative processing (computers) ... Assembly language computer storage devices . . . autocoders neural nets ... COMPASS (programming RT Rankine cycle optical memory (data storage) language) sun . . MAP (programming language) associative processing (computers) computer programming DEF Byte-variable computer processing computer programs with multifield search, arithmetic, and logic caasteroid belts computer systems programs pability. machine oriented languages GS data processing associative processing Assess program (computers) Spacelab simulation flights UF associative memory RT names. GS programs digital computers GS . NASA programs multiprocessing (computers) . Assess program parallel processing (computers) . Toro asteroid RT space shuttles pipelining (computers) Amor asteroid ∞ processing assessments assessments GS associative storage (added December 1999) . damage assessment asteroids . risk assessment USE associative memory  $\infty$  belts . technology assessment evaluation assumptions Chiron pilot ratings RT hypotheses ratings inference revenue

simplification

quality control

redundancy

insurance (contracts)

∞ theories

assurance

value

gliders

ASSET gliders

hypersonic aliders

ASSET gliders

RT ∞ aircraft

GS

(added September 1995)

DEF 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.

recovery vehicles

**Assured Crew Return Vehicle** 

emergency life sustaining systems escape capsules International Space Station

return to Earth space flight safety management Sovuz spacecraft

survival equipment X-38 crew return vehicle

chemical elements

GS chemical elements

. . . radioactive isotopes .... astatine isotopes

. 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

thermoelectric generators

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

Amphitrite asteroid Apollo asteroids asteroid collisions

> Ceres asteroid Gaspra asteroid

Icarus asteroid Ida asteroid

meteorite parent bodies meteoroids

Quaoar regions solar system space debris Toutatis asteroid Vesta asteroid

asteroid capture

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

RT asteroids celestial bodies containment enclosures payloads retaining solar system

## asteroid collisions

(added July 1997) 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

asteroid detection

asteroid collisions asteroids sky surveys (astronomy) space observations (from Earth) space surveillance (ground based) stellar occultation

#### asteroid missions

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

RT asteroids

Clementine spacecraft Deep Space 1 Mission

flyby missions interplanetary flight

∞ missions

New Horizons mission space exploration

## asteroids

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

minor planets GS celestial bodies

. asteroids

. . 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

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)

DEF Study of stellar oscillations as a means to probing the internal structure and dynamics of

stellar seismology

GS seismology

. asteroseismology . helioseismology

astrometry

astronomical photometry

astrophysics starquakes stellar evolution stellar interiors stellar oscillations

stellar physics

#### asthenopia

GS diseases . eye diseases asthenopia

fatique (biology)

#### 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 attenuated.

RT boundary layers Earth mantle Earth planetary structure lithosphere planetary structure seismology tectonics

#### asthma

GS diseases

. respiratory diseases

asthma

## astigmatism

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.

GS diseases

eye diseases

. astigmatism

distortion

focusing geometrical optics haploscopes

lenses ∞ optics refraction stigmatism

ASTP

USE Apollo Soyuz test project

## astrionics

Astronautical electronics, particularly the development and use of electronic equipment and systems for space vehicles and plat-

RT ∞ astronautics avionics ∞ control ∞ electronics

guidance (motion) satellite communication single event upsets

spacecraft communication spacecraft electronic equipment

spacecraft instruments ∞ test equipment

## Astro missions (STS)

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
boostglide vehicles

#### Astrobee 1500 rocket vehicle

ferry spacecraft

lifting reentry vehicles

GS rocket vehicles

∞ spacecraft

. multistage rocket vehicles

. . Astrobee rocket vehicles

... Astrobee 1500 rocket vehicle

. sounding rockets

. . Astrobee rocket vehicles

. Astrobee 1500 rocket vehicle

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

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 mechanics (physics)

. 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

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

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

GS	measuring instruments	psychological factors		astronomical coordinates
	. indicating instruments	space psychology	RT	azimuth
RT	astrolabes	spacecraft performance weightlessness		celestial reference systems cylindrical coordinates
וח	altimeters astrometry	weightiessness		geocentric coordinates
	astronomical observatories	astronaut training		northern sky
	astronomy	GS education		planetocentric coordinates
	celestial bodies	. flight training		planispheres
	position (location)	space flight training		polar coordinates
	position errors	astronaut training		proper motion
	solar position	learning		reference stars
	star distribution	astronaut training		solar longitude
	star trackers	RT ejection training		spherical coordinates
	stars	pilot training space maintenance	aatran	omical interferometry
Actrolo	v (tradomark)	space maintenance space psychology		led June 1993)
GS	y (trademark) alloys	training simulators	•	interferometry
ao	. chromium alloys	training simulators	ao	. astronomical interferometry
	Astroloy (trademark)	∞ astronautics	RT	astronomy
	. cobalt alloys	SN (USE OF A MORE SPECIFIC TERM IS		etalons
	Astroloy (trademark)	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		infrared interferometers
	high strength alloys	DEF The science of space flight including		interferometers
	Astroloy (trademark)	the design, construction, and operation of		LIGO (observatory)
	. nickel alloys	spacecraft.		LISA (observatory)
	Astroloy (trademark)	RT aerospace environments		planet detection
	. ternary alloys	artificial gravity		radio astronomy
	Astroloy (trademark)	astrionics		Sagnac effect
astroma	nete	astrodynamics		space observations (from Earth) spaceborne astronomy
USE	longerons	astronauts		very long base interferometry
JUL		astronomy auxiliary propulsion		vory long base interiorinetry
astrom	etrv	auxiliary propulsion avionics	astrono	omical maps
RT	asteroseismology	bioastronautics	GS	maps
	astrolabes	Biosatellite 3		astronomical maps
	astronomical maps	cosmonauts		planispheres
	astronomical photography	Earth-Venus trajectories	RT	astrography
	astronomical polarimetry	human factors engineering		astrometry
	astronomy	lunar bases		celestial reference systems
	double stars	propulsion		celestial sphere
	Hipparcos satellite	soft landing		lunar maps
c	• measurement	space exploration	aetrono	omical models
	parallax planet detection	space flight	UF	orreries
	proper motion	space maintenance	GS	models
	solar diameter	space navigation	0.0	. astronomical models
	stellar parallax	spacecraft docking weightlessness		density wave model
		weightiessness		stellar models
Astron	thermonuclear reactor	astronauts	RT	big bang cosmology
GS	nuclear reactors	GS personnel		corotation
	. Astron thermonuclear reactor	. flying personnel		cosmology
RT	relativistic plasmas	astronauts		Earth analogs
	thermonuclear power generation	orbital workers		mathematical models
	thermonuclear reactions	RT ∞ astronautics		molecular clouds
aatrana	ut locomotion	awards		planetariums
	locomotion	cosmonauts		Reissner-Nordstrom solution
do	. astronaut locomotion	crew experiment stations		solar neutrinos solar oscillations
RT	extravehicular activity	crew observation stations		stellar oscillations
	extravehicular mobility units	crew workstations crews		Stellar Oscillations
	intravehicular activity	pilots (personnel)	Astron	omical Netherlands Satellite
	life support systems	spacecrews	UF	ANS
	man operated propulsion systems	ορασσοίστιο	GS	artificial satellites
	manned maneuvering units	astronavigation		. scientific satellites
	orbital workers	GS navigation		astronomical satellites
		. celestial navigation		Astronomical Netherlands
astrona GS	ut maneuvering equipment astronaut maneuvering equipment	astronavigation		Satellite observatories
us	. manned maneuvering units	RT air navigation		
RT	Crew Equipment Translation Aid (ISS)	interplanetary navigation		. astronomical observatories astronomical satellites
	extravehicular activity	interstellar travel		Astronomical Netherlands
	extravehicular mobility units	radio navigation space navigation		Satellite
	human factors engineering	space navigation	RT	Netherlands
	IMLSS	astronomical catalogs		Netherlands space program
	intravehicular activity	UF star catalogs		
	self maneuvering units	GS documents	astrono	omical observatories
	walking machines	. catalogs (publications)	GS	observatories
		astronomical catalogs		astronomical observatories
	ut performance	RT ∞ catalogs		astronomical satellites
GS	•	classifications		Astronomical Netherlands
	. astronaut performance	ephemerides		Satellite Gamma Bay Observatory
RT	blackout prevention confinement	northern sky		Gamma Ray Observatory Ginga satellite
ш	confining	sky surveys (astronomy)		HEAO
	human factors engineering	Southern sky tables (data)		HEAO 1
	intravehicular activity	lables (uala)		HEAO 2
	man machine systems	astronomical coordinates		HEAO 3
	operator performance	DEF Coordinates defining a point on the		HEAO 4
0	∘ performance	surface of the Earth, or of the geoid, in which the		Hubble Space Telescope
	physiological factors	local direction of gravity is used as a reference.		Infrared Astronomy Satellite
	pilot performance	GS coordinates		Infrared Space Observatory (ISO)

# astronomical photography

	IUE	faint object camera		Submillimeter Wave Astronomy
	Large Deployable Reflector	infrared astronomy		Satellite
	Magellan ultraviolet astronomy	infrared photography		Swift observatory
	satellite	Lallemand cameras		Tenma satellite
	OAO	lunar photographs		X Ray Astrophysics Facility
	OAO 1	lunar photography		XMM-Newton telescope
	OAO 2	reference stars		observatories
	OAO 3 OSO	rocket-borne photography satellite-borne photography		. astronomical observatories
	AOSO	Schmidt cameras		astronomical satellites
	OSO-1	Southern sky		Astronomical Netherlands
	OSO-2	spaceborne photography		Satellite
	OSO-3	spaceborne telescopes		Gamma Ray Observatory
	OSO-4	·		Ginga satellite
	OSO-5	astronomical photometry		HEAO
	OSO-6	GS optical measurement		HEAO 1
	OSO-7	. photometry		HEAO 2
	OSO-8	astronomical photometry		HEAO 3
	OSO-C	stellar spectrophotometry		HEAO 4
	Quasat SAS	RT asteroseismology		Hubble Space Telescope
	Explorer 53 satellite	atmospheric windows		Infrared Astronomy Satellite
	SAS-1	blinking		Infrared Space Observatory (ISO)
	SAS-2	cometary atmospheres DIAL satellite		IUE
	SAS-3	infrared photometry		Large Deployable Reflector
	Constellation-X	planet detection		Magellan ultraviolet astronomy
	Fermi Gamma-ray Space	spectrophotometry		satellite
	Telescope	superhumps (astronomy)		OAO
	James Webb Space Telescope	telephotometry		OAO 1
	LISA (observatory)			OAO 2 OAO 3
	Space Infrared Telescope Facility	astronomical polarimetry		
	Spartan satellites	(added July 1991)		OSO AOSO
	Submillimeter Wave Astronomy	DEF The measurement of electromagnetic		OSO-1
	Satellite Swift observatory	radiation from celestial bodies by polarimeters.		OSO-1
	Tenma satellite	GS optical measurement		OSO-2
	X Ray Astrophysics Facility	. polarimetry		OSO-4
	XMM-Newton telescope	astronomical polarimetry		OSO-4
	Astroplane	RT astrometry		OSO-6
	ROSAT mission	astronomy polarimeters		OSO-7
	SOFIA (airborne observatory)	polarimeters		OSO-8
	solar observatories	astronomical satellites		OSO-C
	OSO	GS artificial satellites		Quasat
	AOSO	. scientific satellites		SAS
	OSO-1	astronomical satellites		Explorer 53 satellite
	OSO-2	Astronomical Netherlands		SAS-1
	OSO-3 OSO-4	Satellite		SAS-2
	OSO-4	Gamma Ray Observatory		SAS-3
	OSO-6	Ginga satellite		Constellation-X
	OSO-7	HEAO		Fermi Gamma-ray Space
	OSO-8	HEAO 1		Telescope James Webb Space Telescope
	OSO-C	HEAO 2		LISA (observatory)
	Pinhole Occulter Facility	HEAO 3		Space Infrared Telescope Facility
	STEREO (observatory)	HEAO 4		Spartan satellites
	European Southern Observatory	Hubble Space Telescope		Submillimeter Wave Astronomy
	LIGO (observatory)	Infrared Astronomy Satellite Infrared Space Observatory (ISO)		Satellite
RT	astrodynamics	IUE		Swift observatory
	astrolabes	Large Deployable Reflector		Tenma satellite
	astronomy celestial bodies	Magellan ultraviolet astronomy		X Ray Astrophysics Facility
	geophysical observatories	satellite	DT	XMM-Newton telescope
	honeycomb mirrors	OAO	RT	ROSAT mission
	Jodrell Bank Observatory	OAO 1		spaceborne astronomy
	lunar observatories	OAO 2		
	Next Generation Space Telescope	OAO 3		
	project	OSO AOSO		omical spectroscopy
	northern sky	OSO-1	ds	spectroscopy . astronomical spectroscopy
	observation scheduling	OSO-1		stellar spectrophotometry
	radio astronomy	OSO-3	RT	astronomy
	seeing (astronomy)	OSO-4		blue shift
	segmented mirrors	OSO-5		continuous spectra
	Southern sky spaceborne telescopes	OSO-6		electromagnetic spectra
	telescopes	OSO-7		infrared spectroscopy
	10100000000	OSO-8		Kuiper Airborne Observatory
	and the late of the state of th	OSO-C		laboratory astrophysics
	omical photography	Quasat		organic solids
GS	imagery	SAS		radial velocity
	. photography astronomical photography	Explorer 53 satellite SAS-1		radiation spectra radio astronomy
RT	aerial photography	SAS-1		,
М	astrometry	SAS-2 SAS-3		radio spectroscopy Raman spectroscopy
	astronomy	Constellation-X		solar spectra
	atmospheric windows	Fermi Gamma-ray Space		Southern sky
	Baker-Nunn camera	Telescope		spectra
	black and white photography	James Webb Space Telescope		spectroscopic telescopes
	coronagraphs	LISA (observatory)		stellar spectra
	diffraction limited cameras	Space Infrared Telescope Facility		ultraviolet spectroscopy
	electro-optical photography	Spartan satellites		visible spectrum

x ray spectroscopy gravitational collapse ∞ methodology gravitational instability astronomical telescopes helioseismology asymptotic properties USE telescopes interstellar extinction DEF Properties of any mathematical relation or corresponding physical system characmagnetic field configurations astronomy mass to light ratios terized by an approach to a given value as an The science that treats of the location, Michelson interferometers expression, containing a variable, tends to infinmagnitudes, motions, and constitution of celesmissing mass (astrophysics) tial bodies and structures. Used for celestial naked singularities asymptotes observation. Orion nebula asymptotic methods UF celestial observation asymptotic series ∞ physics astronomy GS planetary rotation attractors (mathematics) . gamma ray astronomy . infrared astronomy radio interferometers differential equations integral equations radio jets (astronomy) . radar astronomy relic radiation mathematical models . radio astronomy ∞ science normality . spaceborne astronomy solar neutrinos . ultraviolet astronomy Spartan satellites asymptotic series . x ray astronomy GS analysis (mathematics) spin temperature RT ∞ aerospace sciences star formation Amor asteroid . . series (mathematics) stellar cores Apollo asteroids ... asymptotic series stellar envelopes astrolabes . real variables stellar evolution astrometry . . series (mathematics) stellar interiors ∞ astronautics . . asymptotic series stellar oscillations astronomical interferometry theoretical physics asymptotes astronomical observatories asymptotic properties Wolf-Rayet stars astronomical photography series expansion X Ray Astrophysics Facility astronomical polarimetry x ray binaries astronomical spectroscopy asynchronous motors astrophysics electromechanical devices **Astroplane** celestial bodies . electric motors (LIMITED TO THE EUROPEAN AIRBORNE ASTRONOMICAL OBSERVATORY) SN celestial mechanics . . asynchronous motors Earth limb GS motors observatories . electric motors halos astronomical observatories infrared sources (astronomy) asynchronous motors . Astroplane infrared telescopes induction motors RT airborne equipment synchronous motors mass to light ratios infrared telescopes meteoroid showers missing mass (astrophysics) asynchronous transfer mode asymmetrical optics ∞ physical sciences (added January 1997) USE aspheric optics ATM (data transmission) relic radiation ∞ science broadband seeing (astronomy) selenology channels (data transmission) communication networks asymmetry dissymmetry sidereal time RT antisymmetry data transfer (computers) deviation sky surveys (astronomy) solar neighborhood solar parallax data transmission distortion optical switching eccentricity packet switching shapes Southern sky packet transmission skewness spaceborne telescopes symmetry stellar magnitude ATARS variations USE automatic traffic advisory and stellar models stellar oscillations resolution telescopes asymptotes ataxia GS analysis (mathematics) astrophysics diseases . real variables GS Study of the physical characteristics ataxia . asymptotes RT and processes associated with celestial bodies functions (mathematics) muscles and interstellar space. The application of the laws of physics to the study of the celestial bodies and astronomical phenomena such as asymptotes ataxite analytic geometry asymptotic properties GS rocks luminosity, size, mass, density, temperature, and chemical composition. Used for geoastroasymptotic series ataxite RT breccia calculus physics. soils numerical analysis geoastrophysics GS Atchafalaya River Basin (LA) astrophysics asymptotic giant branch stars . computational astrophysics GS landforms AGB stars . nuclear astrophysics . structural basins GS celestial bodies . . river basins stellar physics . stars . solar physics . Atchafalaya River Basin (LA) . . giant stars laboratory astrophysics RT Louisiana . . asymptotic giant branch stars accretion disks carbon stars association reactions color-magnitude diagram asteroseismology atelectasis Hertzsprung-Russell diagram astronomy Collapsed or airless state of all or part late stars brightness distribution of the lung. M stars brightness temperature diseases Mira variables celestial bodies atelectasis red giant stars celestial mechanics RT lungs S stars cosmology stellar evolution dark energy stellar mass ejection degenerate matter USE F-22 aircraft dense plasmas disk galaxies asymptotic methods Athena rocket vehicle galactic evolution GS problem solving GS rocket vehicles asymptotic methods . multistage rocket vehicles gamma ray astronomy asymptotic properties iterative solution . Athena rocket vehicle geophysics

learning curves

grand unified theory

gravitational binding energy

BE-3 engine

reentry vehicles

	solid propellant rocket engines		Atlas Agena launch vehicles	Atlas E ICBM
,,			rocket vehicles	Atlas F ICBM
atheros USF	clerosis arteriosclerosis		. multistage rocket vehicles Atlas launch vehicles	RT MA-2 engine MA-3 engine
002			Atlas Agena launch vehicles	
athletes		RT	Agena rocket vehicles	Atlas launch vehicles UF SM-65 missile
RT	competition physical exercise		Environmental Research Satellites ERS 17	GS launch vehicles
	physical fitness		ERS 18	. Atlas launch vehicles
	sports medicine		Mariner 5 space probe	Atlas Able 5 launch vehicle Atlas Agena B launch vehicle
athodyo	le		Mariner 6 space probe	Atlas Agena launch vehicles
	ramjet engines		Mariner program OGO-A	Atlas Centaur launch vehicle
		c	∘ vehicles	Atlas SLV-3 launch vehicle
Atlanta				rocket vehicles . multistage rocket vehicles
GS	cities . Atlanta (GA)		entaur launch vehicle launch vehicles	Atlas launch vehicles
RT	Georgia	as	. Atlas launch vehicles	Atlas Able 5 launch vehicle
A.,			Atlas Centaur launch vehicle	Atlas Agena B launch vehicle
Atlantic USE			. Centaur launch vehicle	Atlas Agena launch vehicles Atlas Centaur launch vehicle
OOL	Dieguet 1130 antiait		Atlas Centaur launch vehicle rocket vehicles	Atlas SLV-3 launch vehicle
	: Ocean		. Centaur launch vehicle	RT EGO
GS	oceans		Atlas Centaur launch vehicle	Gemini project
RT	. Atlantic Ocean Assateague Island (MD-VA)		. multistage rocket vehicles	MA-5 engine Mariner program
111	Azores		Atlas launch vehicles Atlas Centaur launch vehicle	Mercury flights
	Bermuda	RT	Centaur project	Mercury MA-1 flight
	Block Island Sound (RI)		OAO 1	Mercury MA-2 flight
	Cape Hatteras (NC) Cape Verde		OAO 2	Mercury MA-3 flight Mercury MA-4 flight
	Delaware Bay (US)		OAO 3 RL-10 engines	Mercury MA-5 flight
	English Channel		Space Shuttle upper stage A	Mercury MA-6 flight
	GARP Atlantic Tropical Experiment		Surveyor 1 lunar probe	Mercury MA-7 flight
	Gulf Stream Lesser Antilles		Surveyor 2 lunar probe	Mercury MA-8 flight Mercury MA-9 flight
	Lomonosov current		Surveyor 3 lunar probe Surveyor 4 lunar probe	Mercury project
	Long Island (NY)		Surveyor 5 lunar probe	Nomad launch vehicle
	mid-ocean ridges		Surveyor 6 lunar probe	OAO
	Outer Banks (NC) Sargasso Sea		Surveyor 7 lunar probe	orbital rendezvous Ranger project
	Wallops Island		Surveyor project	∞ vehicles
	West Indies	Atlas D	ICBM	Atlas SLV-3 launch vehicle
Atlantia	(aubitau)	GS	missiles	UF standard launch vehicle 3
Atlantis	s (orbiter) Space Shuttle Orbiter 104		. ballistic missiles	GS launch vehicles
	manned spacecraft		intercontinental ballistic missiles Atlas ICBM	. Atlas launch vehicles
	. space shuttles		Atlas D ICBM	. Atlas SLV-3 launch vehicle . Standard Launch Vehicles
	Space Shuttle orbiters		. surface to surface missiles	Atlas SLV-3 launch vehicle
	Atlantis (orbiter) reentry vehicles		intercontinental ballistic missiles Atlas ICBM	rocket vehicles
	. recoverable spacecraft		Atlas D ICBM	. multistage rocket vehicles
	reusable spacecraft	RT		Atlas launch vehicles Atlas SLV-3 launch vehicle
	space shuttles		Standard Launch Vehicles	. Standard Launch Vehicles
	Space Shuttle orbiters Atlantis (orbiter)		Vega launch vehicle	Atlas SLV-3 launch vehicle
RT	manned space flight	Atlas E	ICBM	RT liquid propellant rocket engines
	Space Shuttle mission 51-H	GS	missiles	MA-5 engine
	Space Shuttle mission 51-J Space Shuttle mission 61-B		. ballistic missiles	ATLIT project
۰	o space Shuttle Mission 61-B		intercontinental ballistic missiles Atlas ICBM	UF Advanced Technology Light Twin aircraft
			Atlas E ICBM	GS programs
	ble 5 launch vehicle		. surface to surface missiles	. NASA programs
GS	launch vehicles . Atlas launch vehicles		intercontinental ballistic missiles Atlas ICBM	ATLIT project
	Atlas Able 5 launch vehicle		Atlas E ICBM	. projects <b>ATLIT project</b>
	rocket vehicles			RT ∞ aircraft
	. multistage rocket vehicles	Atlas F		GAW-1 airfoil
	Atlas launch vehicles Atlas Able 5 launch vehicle	GS	missiles . ballistic missiles	PA-34 Seneca aircraft
RT			intercontinental ballistic missiles	ATM (data transmission)
	space probes		Atlas ICBM	(added January 1997)
Λ±1 Λ	rone D levensh vehicle		Atlas F ICBM	USE asynchronous transfer mode
	gena B launch vehicle launch vehicles		. surface to surface missiles intercontinental ballistic missiles	Atmosphere Explorer A
0.0	. Atlas launch vehicles		Atlas ICBM	USE Explorer 17 satellite
	Atlas Agena B launch vehicle		Atlas F ICBM	Atmosphere Explorer B
	rocket vehicles	Atlan I	NDM.	USE Explorer 32 satellite
	. multistage rocket vehicles Atlas launch vehicles	Atlas IO GS	missiles	Atmosphere Explorer C
	Atlas Agena B launch vehicle	40	. ballistic missiles	USE Explorer 51 satellite
RT	Agena rocket vehicles		intercontinental ballistic missiles	Atmosphere Explorer D
	Mariner 2 space probe Midas satellites		Atlas ICBM Atlas D ICBM	USE Explorer 54 satellite
	Ranger 4 lunar probe		Atlas D ICBM Atlas E ICBM	Atmosphere Explorer E
	Ranger lunar probes		Atlas F ICBM	USE Explorer 55 satellite
			. surface to surface missiles	∞ atmospheres
Atlas A GS	gena launch vehicles launch vehicles		intercontinental ballistic missiles Atlas ICBM	SN (USE OF A MORE SPECIFIC TERM IS
GS	. Atlas launch vehicles		Atlas ICBM	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)
				- /

DEF (1) The mixture of gases surrounding vegetative index wind direction the Earth or filling the habitable volume or a wave attenuation wind profiles windpower utilization spacecraft. (2) The pressure exerted by a colwave propagation umn of mercury 760 mm high at 1G, equal to atmospheric boundary layer 101. 329 kilopascals. Atmospheric Cloud Physics Lab (Spacelab) boundary layers GS A NASA Spacelab mission involving atmospheric boundary layer cloud physics experiments in zero gravity enviargon-oxygen atmospheres atmospheric pressure air flow ronment. Also known as ACPL. Used for ACPL air land interactions cabin atmospheres (Spacelab) and zero-g ACPL (Spacelab). cometary atmospheres boundary layer flow ACPL (Spacelab) controlled atmospheres Ekman layer zero-g ACPL (Spacelab) Earth atmosphere ∞ layers laboratories mixing layers (fluids) environments . space laboratories equatorial atmosphere planetary boundary layer ... Atmospheric Cloud Physics Lab gas mixtures primitive equations (Spacelab) payloads atmospheric chemistry
DEF Study of the production, transport, helium-oxygen atmospheres . Spacelab payloads hypobaric atmospheres . . Atmospheric Cloud Physics Lab modification, and removal of atmospheric conlife support systems (Spacelab) meteorology middle atmosphere stituents in the troposphere and stratosphere. RT cloud physics environmental chemistry atmospheric chemistry meteorological parameters Neptune atmosphere neutral atmospheres nephanalysis RT acid rain spacecraft instruments aerothermochemistry nongray atmospheres air pollution nongray gas Aitken nuclei planetary atmospheres planetary ionospheres primitive Earth atmosphere atmospheric effects chemistry formyl ions satellite atmospheres middle atmosphere RT aeronomy solar atmosphere nitrous acid stellar atmospheres air photochemical oxidants Uranus atmosphere photochemical reactions physical chemistry Atmospheric & Oceanographic Inform Sys satellite atmospheres (ATMOSPHERIC & OCEANOGRAPHIC INFORMATION SYSTEMS) DEF A data system designed primarily for the interactive manipulation of meteorological atmospheric circulation Global or hemispheric air movements satellite images. Capabilities include displaying, which can be treated by equations of motion in analyzing, storing, and manipulating digital data contrast to atmospheric diffusion which is small in the field of meteorology and Earth resources. random movement not amenable to treatment Used for AOIPS. by these equations. Used for wind circulation. **AOIPS** wind circulation GS information systems GS circulation . Atmospheric & Oceanographic . atmospheric circulation Inform Sys . zonal flow (meteorology) advection aerology air water interactions air currents data processing air land interactions data systems air masses imagery annual variations isotherms Atmospheric General Circulation Experiment meteorological parameters meteorology minicomputers Atmospheric General Circulation Models baroclinic instability oceanographic parameters Brunt-Vaisala frequency oceanography ∞ systems circulation distribution Titan weather circumpolar westerlies climatology convection cells atmospheric absorption USE atmospheric attenuation cyclogenesis Earth atmosphere Atmospheric and Magnetospheric Payload USE AMPS (satellite payload) ground wind horizontal distribution intertropical convergent zones atmospheric attenuation intraseasonal variations atmospheric absorption jet streams (meteorology) GS attenuation Kelvin waves Madden-Julian Oscillation . atmospheric attenuation . auroral absorption meridional flow acoustic attenuation middle atmosphere atmospheric lasers mixing height cosmic ray albedo monsoons electromagnetic absorption planetary meteorology correction electromagnetic scattering planetary waves electromagnetic wave transmission pollution transport infrared absorption quasi-biennial oscillation

sea breeze

tornadoes

superrotation

TRMM satellite

tropical storms

upwelling water vertical air currents

wind (meteorology)

turbopause

typhoons

vorticity

Southern Oscillation

microwave absorption

molecular absorption

radar attenuation

radio attenuation

transmission

radio transmission

shock wave attenuation shock wave propagation thermal absorption

radar transmission

radiation absorption

planetary atmospheres

atmospheric composition GS composition (property) . atmospheric composition . . atmospheric moisture . . ionospheric composition air pollution Aitken nuclei carbon dioxide concentration chemical composition climate change Earth atmosphere electron density (concentration) equatorial atmosphere Gaia hypothesis gas composition horizontal distribution in situ measurement isotope ratios LACATE (experiment) middle atmosphere mixing ratios moisture content ozone depletion particulates planetary atmospheres primitive Earth atmosphere radio occultation radioactive contaminants satellite atmospheres Saturn atmosphere Solar Mesosphere Explorer atmospheric conditions USE meteorology atmospheric conductivity GS transport properties . atmospheric conductivity . . ionospheric conductivity RT air conductivity ∞ conductivity electrical resistivity thermal conductivity atmospheric correction DEF Removal of the effects of the intervening atmosphere from satellite imagery. . atmospheric correction anisoplanatism atmospheric effects clouds (meteorology) geometric rectification (imagery) image classification image processing infrared radiometers radiative transfer satellite imagery spatial resolution atmospheric density GS density (mass/volume)
atmospheric density 73

RT air pollution craft. Used for planetary entry. bolides Boltzmann distribution planetary entry atmospheric entry atmospheric impurities reentry density (number/volume) USE air pollution electron density (concentration) . . hyperbolic reentry . . hypersonic reentry ion density (concentration) ... uncontrolled reentry (spacecraft) atmospheric ionization magnetospheric electron density . . manned reentry meteoritic ionization magnetospheric ion density . . spacecraft reentry ionization magnetospheric proton density . uncontrolled reentry (spacecraft) . gas ionization meteorology ablation . . atmospheric ionization particle density (concentration) aeroassist . auroral ionization planetary atmospheres aerocapture afterglows plasma density aerodynamic heating airglow proton density (concentration) aeromaneuvering Antares rocket vehicle space density bolides Earth ionosphere descent trajectories electron density profiles atmospheric diffusion Earth atmosphere diffusion ∞ entrv photoionization entry guidance (STS) atmospheric diffusion plasmasphere Boltzmann distribution falling radio meteors molecular diffusion Galileo project pollution transport gas guns orbit decay sprites (atmospheric physics) radio scattering turbulent diffusion space flight spacecraft breakup atmospheric lasers atmospheric effects The theoretical phenomena whereby aerosols RT atmospheric entry simulation the upper atmosphere is used as the lasing air pollution medium. GS simulation atmospheric chemistry stimulated emission devices atmospheric entry simulation GS atmospheric correction . lasers environment simulation ∞ effects . atmospheric lasers flight simulators erosion atmospheric attenuation atmospheric optics landing simulation exposure space environment simulation rusting atmospheric scattering seeing (astronomy) laser outputs **Atmospheric General Circulation** soil erosion TEA lasers turbulence DEF Model experiment of the Earth's atmovegetative index spheric circulation as proposed for a Spacelab wind effects atmospheric loading flight on which a liquid contained between two wind erosion USE pollution transport concentric spheres is subjected to rotation. The thermal driving force will be a stable radial atmospheric electricity temperature gradient and an unstable latitudinal DEF Electrical phenomena, regarded collectively, which occur in the Earth's atmosphere. atmospheric models gradient. GS models GS payloads Also the study of electrical processes occurring . atmospheric models . Space Shuttle payloads . . Atmospheric General Circulation within the atmosphere. . . Atmospheric General Circulation GS electricity Models Experiment atmospheric electricity . reference atmospheres . Spacelab payloads . . ionospheric currents baroclinic instability . . Atmospheric General Circulation ... Birkeland currents Chapman-Ferraro problem Experiment atmospheric circulation . . . electrojets climate models . . . . auroral electrojets environment models Atmospheric General Circulation . . . . equatorial electrojet environment simulation Models . . Pedersen currents horizontal distribution Farth atmosphere atmospherics intraseasonal variations space transportation system ball lightning large eddy simulation cloud physics Madden-Julian Oscillation dust storms mathematical models **Atmospheric General Circulation Models** Earth atmosphere numerical weather forecasting (added March 1989) electric corona ocean models models electron density profiles primitive Earth atmosphere . atmospheric models solar oscillations elves Atmospheric General Circulation field aligned currents stellar oscillations Models lightning Venus clouds atmospheric circulation lightning suppression primitive Earth atmosphere weather forecasting Atmospheric General Circulation Experiment ring currents climatology sprites (atmospheric physics) static electricity atmospheric moisture long range weather forecasting GS composition (property) numerical weather forecasting . atmospheric composition telluric currents atmospheric moisture atmospheric heat budget . concentration (composition) atmospheric emission energy budgets . . moisture content USE airglow . heat budget . atmospheric moisture . atmospheric heat budget atmospheric energy sources moisture atmospheric energy sources atmospheric moisture ammonia Earth radiation budget atmospheric heat budget acid rain greenhouse effect atmospheric heating Advanced Microwave Sounding Unit heat balance atmospheric physics anvil clouds energy budgets heat transfer cap clouds stratospheric warming ∞ energy sources ethyl alcohol cirrocumulus clouds cirrostratus clouds clouds (meteorology) planetary atmospheres atmospheric heating (EXCLUDES AERODYNAMIC HEATING) heating dew point SN GS atmospheric entry
DEF The penetration of any planetary atmosphere by any object from outer space; specifically, the penetration of the Earth's atmosphere humidity hydrometeors . atmospheric heating

. . global warming
. . stratospheric warming

atmospheric energy sources

mixing ratios

psychrometers

precipitation (meteorology)

by a manned or unmanned capsule or space-

water vapor

atmospheric noise USE atmospherics

atmospheric optics

DEF The study of the optical characteristics of the atmosphere and of the optical phenomena produced by the atmosphere's suspensoids and hydrometeors. It embraces the study of refraction, reflection, diffraction, scattering, and polarization of light, but is not commonly regarded as including the study of any other kinds of radia-

RT adaptive optics anisoplanatism atmospheric lasers clarity haze infrared absorption light transmission opacity optics seeing (astronomy) thermal lensing transparence

## atmospheric physics

aerophysics

## atmospheric physics

vegetative index

cloud physics

aeronomy

atmospheric energy sources

Brunt-Vaisala frequency dust storms

Earth sciences

International Magnetospheric Study magnetosphere-ionosphere coupling

meteorology neutral sheets

∞ physics

planetary meteorology satellite atmospheres

science

secular variations

turbopause

## atmospheric pressure

DEF The pressure at any point in an atmosphere due solely to the weight of the atmospheric gases above the point concerned. Used for barometric pressure.

UF barometric pressure

GS pressure

## atmospheric pressure

anticyclones

∞ atmospheres cyclogenesis

cyclones

gas pressure

geopotential height

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.

## 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)

α 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 atmosphere.

GS refraction

## . atmospheric refraction

. radio wave refraction

electromagnetic radiation light transmission

refractivity solar radiation wave dispersion

#### atmospheric scattering

scattering GS

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

GS 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 Earth's atmosphere. Used for atmospheric shells.

atmospheric shells GS

stratification

## atmospheric stratification

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

## atmospheric temperature

GS 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 meteorological parameters planetary atmospheres planetary temperature quasi-biennial oscillation radio occultation sound detecting and ranging

stratospheric warming subzero temperature temperature gradients temperature inversions thermal resources weather

atmospheric tides

DEF 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 RT aviation meteorology

dissipation

gust loads

homogeneous turbulence isotropic turbulence laminar flow

meteorological parameters

meteorology seeing (astronomy)

sodar tephigrams turbopause turbulent diffusion

turbulent flow

wind variations

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

radiation. astronomical photography 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 quasisteady 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

atmospheric electricity blackout (propagation) electromagnetic compatibility

VLF emission recorders

radio meteorology radio waves static electricity thunderstorms

atoll reefs

USE coral reefs

## atolls

DEF Coral reefs appearing in plan view as 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 examples of this structure.

GS landforms . islands atolls RT coral reefs lagoons

# reefs atom concentration

GS composition (property) . concentration (composition) . atom concentration RT 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)

DEF 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) . particle beams . atomic beams atom optics ion beams molecular beams neutral atoms

neutral beams neutron beams particle diffusion rarefied gas dynamics

atomic bombs

USE fission weapons

## atomic clocks

Timekeeping devices controlled by the frequency of the natural vibrations of certain atoms

GS measuring instruments

. time measuring instruments

. . clocks

. atomic clocks

autonomous spacecraft clocks chronometers clock paradox frequency standards gas masers masers molecular beams

time measurement

atomic clusters

(added January 1994) RT adatoms agglomeration chemisorption clumps ∞ clusters fullerenes metal clusters molecular clusters nucleation

#### atomic collisions

GS atomic interactions atomic collisions collisions . atomic collisions

RT ∞ absorption atomizing autoionization ∞ cross sections elastic scattering electron scattering ∞ interactions ionic collisions ionization molecular collisions particle collisions recoil ions recombination reactions scattering

atomic energy
USE nuclear energy

## atomic energy levels

triplet excitation UF triplet state level (quantity) GS

. energy levels

atomic interactions RT excitation ground state Landau factor laser cooling line spectra spontaneous emission

## atomic excitations

excitation GS

atomic excitations

energy levels Heisenberg theory ionization molecular excitation particle collisions resonance fluorescence

atomic explosions

USE nuclear explosions

## atomic force microscopy

(added February 1994)

DEF A form of microscopy that allows the imaging of general surface morphology and surface atomic structure by the measurement of the atomic forces acting on a sharply pointed probe as it is moved across the surface of a specimen.

AFM (microscopy) UF microscopy GS

## atomic force microscopy

atomic structure crystal surfaces interatomic forces microstructure nanofabrication nanoindentation surface properties thin films

atomic gases

USE monatomic gases

## atomic interactions

GS atomic interactions

atomic collisions

RT atomic energy levels ∞ interactions ion atom interactions molecular structure quantum mechanics

## atomic layer epitaxy

(added June 1997) GS growth

. crystal growth . . epitaxy

... atomic layer epitaxy RT molecular beam epitaxy

thin films vapor deposition vapor phase epitaxy

atomic mass

USE atomic weights

## atomic mobilities

GS mobility

atomic mobilities RT electron mobility hole mobility ionic mobility self diffusion (solid state)

## atomic physics

RT Hartree-Fock-Slater method ∞ physics resonance fluorescence ∞ science

#### atomic recombination

GS chemical reactions

. atomic recombination . . oxygen recombination

recombination reactions . atomic recombination

. . oxygen recombination deionization dissociation emission emission spectra ion recombination radiative recombination

## atomic spectra

spectra GS

atomic spectra

Balmer series Lyman alpha radiation Lyman beta radiation Lyman spectra Paschen series Rydberg series

## atomic structure

(THIS TERM WAS USED FOR "ELECTRONIC STRUCTURE" PRIOR TO MAY 1999)

atomic force microscopy

atoms constitution crystal lattices density functional theory electronic structure elementary particles energy levels fine structure gravitons Hartree approximation

hyperfine structure interatomic forces isoelectronic sequence melts (crystal growth) molecular structure nuclear chemistry nuclear models nuclear physics octets

order-disorder transformations particle precipitation
Pauli exclusion principle

polywater ∞ structures

Thomas-Fermi model

## atomic theory

GS atomic theory

	. Heisenberg theory		degeneration		ATS 4
RT	electron transitions		deterioration		
	ground state		glucocorticoids	ATS 5	
	Landau factor		hindlimb suspension	GS	artificial satellites
~	nuclear energy		nutritional requirements		. gravity gradient satellites
	quantum theory theories		physical exercise tissues (biology)		ATS <b>ATS 5</b>
	lieones		lissues (biology)		. scientific satellites
atomic	weights				ATS
	The weight of an atom according to a	atropin			ATS 5
scale of	f atomic weight units, awu, valued as	GS	bases (chemical) . alkaloids		
	Ifth the mass of the carbon atom. Used		. atropine	ATS 6	
	ic mass.		drugs	GS	artificial satellites
UF	atomic mass		. stimulants		. gravity gradient satellites ATS
GS	weight (mass)		atropine		ATS 6
RT ~	. <b>atomic weights</b> ∍ weight		nitrogen compounds		. scientific satellites
111 ~	weight		. alkaloids		ATS
atomiza	tion		atropine		ATS 6
USE	atomizing		organic compounds	RT	HET experiment
			. cyclic compounds heterocyclic compounds		
atomize			alkaloids	ATS 7	
RT	atomizing		atropine	GS	artificial satellites
	evaporators				. gravity gradient satellites
~	grinding mills nozzles	ATS			ATS <b>ATS 7</b>
	sprayers	UF	Applications Technology Satellites		. scientific satellites
	opiayoro	GS	artificial satellites		ATS
atomizi	ng	GO	. gravity gradient satellites		ATS 7
UF	atomization		ATS		
GS	atomizing		ATS 1	ATS 8	
	. gas atomization		ATS 2	GS	artificial satellites
	. liquid atomization		ATS 3		. gravity gradient satellites
RT	aerosols		ATS 4		ATS
	atomic collisions atomizers		ATS 5		ATS 8
	colloidal generators		ATS 6 ATS 7		. scientific satellites ATS
	colloiding		ATS 8		ATS 8
	comminution		. scientific satellites		A13 0
	disintegration		ATS	∞ attachr	ment
	flaking		ATS 1	SN	(USE OF A MORE SPECIFIC TERM IS
	grinding (comminution)		ATS 2		RECOMMENDEDCONSULT THE TERMS
	grinding mills		ATS 3	UF	LISTED BELOW) reattachment
	metal powder		ATS 4	RT	assembling
	spraying		ATS 5		Coanda effect
atoms			ATS 6		electron attachment
GS	atoms		ATS 7 ATS 8		mounting
0.0	. adatoms	RT	communication satellites		reattached flow
	. helium atoms		Early Bird satellites	-446	
	. hot atoms		meteorological satellites	attachn	accessories
	. hydrogen atoms		navigation satellites	USL	accessories
	. metastable atoms		NAVSTAR satellites	∞ attack	
	. neutral atoms			SN	(USE OF A MORE SPECIFIC TERM IS
	. nitrogen atoms	ATS 1			RECOMMENDEDCONSULT THE TERMS
	. oxygen atoms . recoil atoms	GS	artificial satellites	RT	LISTED BELOW) angle of attack
RT	atomic structure		. gravity gradient satellites		attacking (assaulting)
	chemical elements		ATS		chemical attack
00	elements		ATS 1		
	free radicals		. scientific satellites ATS		aircraft
	ions		ATS 1	GS	
	isomers				. A-1 aircraft
	isotope separation	ATS 2			. A-7 aircraft . A-9 aircraft
	isotopes molecules	GS	artificial satellites		. A-10 aircraft
	monatomic molecules	ao	gravity gradient satellites		. A-37 aircraft
	nuclei (nuclear physics)		ATS		. AH-1G helicopter
	polyatomic molecules		ATS 2		. AH-63 helicopter
	positive ions		. scientific satellites		. AH-64 helicopter
	positronium		ATS		. bomber aircraft
			ATS 2		A-2 aircraft
ATP	adamasina triphaanhata				A-3 aircraft
USE	adenosine triphosphate	ATS 3			A-4 aircraft A-5 aircraft
ATR rea	ector	GS	artificial satellites		A-6 aircraft
	advanced test reactors		. gravity gradient satellites		B-1 aircraft
002			ATS		B-2 aircraft
ATR-72	aircraft		ATS 3		B-26 aircraft
	ed September 1994)		. scientific satellites		B-47 aircraft
GS	jet aircraft		ATS <b>ATS 3</b>		B-50 aircraft
	. turboprop aircraft		AIO 0		B-52 aircraft
	ATR-72 aircraft	ATC 4			B-57 aircraft
	passenger aircraft	ATS 4	artificial actallitas		B-58 aircraft
	. commuter aircraft	GS	artificial satellites		B-66 aircraft B-70 aircraft
PT ~	<b>ATR-72 aircraft</b> ∍ aircraft		. gravity gradient satellites ATS		F-111 aircraft
111 0	an ordit		ATS 4		Shackleton bomber
atrophy	,		. scientific satellites		Valiant aircraft
RT	biological effects		ATS		Victor MK-1 aircraft

	Vulcan aircraft	shock wave attenuation	tilting
	. Brequet 1150 aircraft	radar attenuation	GS attitude (inclination)
	. Buccaneer aircraft	radio attenuation	. pitch (inclination)
	. CL-41 aircraft	RT ∞ absorption	. roll
	. COIN aircraft	attenuators	. satellite orientation
	F-5 aircraft	∞ conduction	. yaw
	OV-10 aircraft	damping	RT horizontal orientation
	. DH 115 aircraft	diffraction	instrument orientation
	. fighter aircraft	dilution	misalignment
	Alpha jet aircraft	dissipation	∞ motion
	. DH 112 aircraft	electromagnetic absorption	∞ orientation
	F-2 aircraft	electromagnetic wave transmission	∞ position
	F-4 aircraft	elimination	∞ space orientation
	F-5 aircraft	fading	stability augmentation
	F-8 aircraft	impingement	tiltmeters
	F-9 aircraft	∞ inhibition	vertical orientation
	F-14 aircraft	internal friction	
	. F-15 aircraft	light (visible radiation)	attitude control
	F-16 aircraft	mechanical impedance	DEF The regulation of the attitude of an
	F-17 aircraft	∞ propagation	aircraft, spacecraft, etc. Also a device or system
	F-18 aircraft	∞ reduction	that automatically regulates and corrects atti-
	F-20 aircraft	retarding	tude, especially of a pilotless vehicle.
	F-22 aircraft	shielding	GS attitude control
	F-84 aircraft	signal fading	. directional control
	F-86 aircraft	signal to noise ratios	thrust vector control
	F-89 aircraft	sound propagation	. lateral control
	. F-94 aircraft	sound transmission	. longitudinal control
	F-100 aircraft	spatial filtering	. satellite attitude control
	. F-101 aircraft	transmission	RT air traffic control
	. F-102 aircraft	transmission loss	aircraft control
	F-104 aircraft	transmitters	automatic control
	. F-105 aircraft	vibration damping	cold gas
	F-106 aircraft		∞ control
	F-106 aircraft	wave degradation wave diffraction	control moment gyroscopes
	FV-12A aircraft	wave diffaction	flight control
			quidance sensors
	G-91 aircraft	wave propagation	helicopter control
	G-95/4 aircraft		horizon scanners
	GA-5 aircraft	attenuation coefficients	magnetic control
	Harrier aircraft	DEF A measure of the space rate of attenu-	manual control
	Jaguar aircraft	ation of any transmitted electromagnetic radia-	Miranda satellite
	JAS-39 aircraft	tion.	missile control
	jet provost aircraft	GS coefficients	orbital lifetime
	MiG aircraft	attenuation coefficients	reaction wheels
	Mirage aircraft	RT diffusion coefficient	remote control
	Mirage 3 aircraft	flow coefficients	rocket engine control
	P-51 aircraft	impedance	satellite control
	P-1127 aircraft	opacity	
	P-1154 aircraft	reflectance	solar sensors
	Saab 37 aircraft	scattering coefficients	spacecraft control
	Scimitar aircraft	transmission efficiency	spacing spin stabilization
	Vampire MK 35 aircraft	transmittance	star trackers
	. YF-12 aircraft		thrust control
	. AH-1S helicopter	attenuators	trajectory control
	. AH-1W helicopter	DEF Devices for measuring attenuation.	visual control
	. P-308 aircraft	They are usually calibrated in dB (decibels).	visual control
	. T-2 aircraft	GS attenuators	attitude gyros
ОТ	. TSR-2 aircraft	. resistors	DEF Gyro-operated flight instruments that
RT	aeroquatic vehicles	potentiometers (resistors)	
00	aircraft	nuinted recistors	
		printed resistors	indicate the attitude of an aircraft or spacecraft
	antisubmarine warfare aircraft	thermistors	indicate the attitude of an aircraft or spacecraft with respect to a reference coordinate system
	jet aircraft		indicate the attitude of an aircraft or spacecraft with respect to a reference coordinate system throughout 360 degrees of rotation about each
000	jet aircraft military aircraft	thermistors RT ∞ absorbers absorbers (materials)	indicate the attitude of an aircraft or spacecraft with respect to a reference coordinate system throughout 360 degrees of rotation about each axis of the craft.
∞	jet aircraft military aircraft military helicopters	thermistors RT ∞ absorbers absorbers (materials) attenuation	indicate the attitude of an aircraft or spacecraft with respect to a reference coordinate system throughout 360 degrees of rotation about each axis of the craft.  GS gyroscopes
∞	jet aircraft military aircraft military helicopters MRCA aircraft	thermistors RT ∞ absorbers absorbers (materials) attenuation baffles	indicate the attitude of an aircraft or spacecraft with respect to a reference coordinate system throughout 360 degrees of rotation about each axis of the craft.  GS gyroscopes . attitude gyros
∞	jet aircraft military aircraft military helicopters MRCA aircraft supersonic aircraft	. thermistors RT ∞ absorbers absorbers (materials) attenuation baffles deflectors	indicate the attitude of an aircraft or spacecraft with respect to a reference coordinate system throughout 360 degrees of rotation about each axis of the craft.  GS gyroscopes  . attitude gyros  gyro horizons
00	jet aircraft military aircraft military helicopters MRCA aircraft supersonic aircraft terrain following	thermistors RT ∞ absorbers absorbers (materials) attenuation baffles	indicate the attitude of an aircraft or spacecraft with respect to a reference coordinate system throughout 360 degrees of rotation about each axis of the craft.  GS gyroscopes  . attitude gyros  gyro horizons  RT control moment gyroscopes
∞	jet aircraft military aircraft military helicopters MRCA aircraft supersonic aircraft	. thermistors RT ∞ absorbers absorbers (materials) attenuation baffles deflectors	indicate the attitude of an aircraft or spacecraft with respect to a reference coordinate system throughout 360 degrees of rotation about each axis of the craft.  GS gyroscopes  . attitude gyros  gyro horizons
	jet aircraft military aircraft military helicopters MRCA aircraft supersonic aircraft terrain following V/STOL aircraft	. thermistors RT ∞ absorbers absorbers (materials) attenuation baffles deflectors ∞ diffusers	indicate the attitude of an aircraft or spacecraft with respect to a reference coordinate system throughout 360 degrees of rotation about each axis of the craft.  GS gyroscopes  . attitude gyros  gyro horizons  RT control moment gyroscopes sea keeping
attackin	jet aircraft military aircraft military helicopters MRCA aircraft supersonic aircraft terrain following V/STOL aircraft g (assaulting)	. thermistors  RT ∞ absorbers     absorbers (materials)     attenuation     baffles     deflectors     odiffusers     electromagnetic wave filters	indicate the attitude of an aircraft or spacecraft with respect to a reference coordinate system throughout 360 degrees of rotation about each axis of the craft.  GS gyroscopes . attitude gyros gyro horizons  RT control moment gyroscopes sea keeping  attitude indicators
<b>attackin</b> UF	jet aircraft military aircraft military helicopters MRCA aircraft supersonic aircraft terrain following V/STOL aircraft g (assaulting) assaulting	thermistors RT ∞ absorbers absorbers (materials) attenuation baffles deflectors ∞ diffusers electromagnetic wave filters equalizers (circuits)	indicate the attitude of an aircraft or spacecraft with respect to a reference coordinate system throughout 360 degrees of rotation about each axis of the craft.  GS gyroscopes . attitude gyros gyro horizons  RT control moment gyroscopes sea keeping  attitude indicators  UF helicopter attitude indicators
attackin	jet aircraft military aircraft military helicopters MRCA aircraft supersonic aircraft terrain following V/STOL aircraft  g (assaulting) assaulting violence	thermistors RT ∞ absorbers absorbers (materials) attenuation baffles deflectors ∞ diffusers electromagnetic wave filters equalizers (circuits) ∞ filters	indicate the attitude of an aircraft or spacecraft with respect to a reference coordinate system throughout 360 degrees of rotation about each axis of the craft.  GS gyroscopes . attitude gyros gyro horizons RT control moment gyroscopes sea keeping  attitude indicators UF helicopter attitude indicators yawmeters
attackin UF GS	jet aircraft military aircraft military helicopters MRCA aircraft supersonic aircraft terrain following V/STOL aircraft  g (assaulting) assaulting violence . attacking (assaulting)	thermistors RT ∞ absorbers absorbers (materials) attenuation baffles deflectors ∞ diffusers electromagnetic wave filters equalizers (circuits) ∞ filters insulators	indicate the attitude of an aircraft or spacecraft with respect to a reference coordinate system throughout 360 degrees of rotation about each axis of the craft.  GS gyroscopes . attitude gyros gyro horizons RT control moment gyroscopes sea keeping  attitude indicators UF helicopter attitude indicators yawmeters GS flight instruments
attackin UF GS RT ∝	jet aircraft military aircraft military helicopters MRCA aircraft supersonic aircraft terrain following V/STOL aircraft  g (assaulting) assaulting violence . attacking (assaulting) attack	thermistors RT ∞ absorbers absorbers (materials) attenuation baffles deflectors ∞ diffusers electromagnetic wave filters equalizers (circuits) ∞ filters insulators inverters	indicate the attitude of an aircraft or spacecraft with respect to a reference coordinate system throughout 360 degrees of rotation about each axis of the craft.  GS gyroscopes . attitude gyros gyro horizons  RT control moment gyroscopes sea keeping  attitude indicators  UF helicopter attitude indicators yawmeters  GS flight instruments . attitude indicators
attackin UF GS RT ∝	jet aircraft military aircraft military helicopters MRCA aircraft supersonic aircraft terrain following V/STOL aircraft  g (assaulting) assaulting violence . attacking (assaulting) attack military aircraft	thermistors RT ∞ absorbers absorbers (materials) attenuation baffles deflectors ∞ diffusers electromagnetic wave filters equalizers (circuits) ∞ filters insulators inverters isolators	indicate the attitude of an aircraft or spacecraft with respect to a reference coordinate system throughout 360 degrees of rotation about each axis of the craft.  GS gyroscopes . attitude gyros gyro horizons  RT control moment gyroscopes sea keeping  attitude indicators  UF helicopter attitude indicators yawmeters  GS flight instruments . attitude indicators . gyro horizons
attackin UF GS RT ∝	jet aircraft military aircraft military helicopters MRCA aircraft supersonic aircraft terrain following V/STOL aircraft  g (assaulting) assaulting violence . attacking (assaulting) attack military aircraft tactics	thermistors RT ∞ absorbers absorbers (materials) attenuation baffles deflectors ∞ diffusers electromagnetic wave filters equalizers (circuits) ∞ filters insulators inverters isolators mufflers	indicate the attitude of an aircraft or spacecraft with respect to a reference coordinate system throughout 360 degrees of rotation about each axis of the craft.  GS gyroscopes . attitude gyros . gyro horizons  RT control moment gyroscopes sea keeping  attitude indicators  UF helicopter attitude indicators yawmeters  GS flight instruments . attitude indicators . gyro horizons measuring instruments
attackin UF GS RT ∝	jet aircraft military aircraft military helicopters MRCA aircraft supersonic aircraft terrain following V/STOL aircraft  g (assaulting) assaulting violence . attacking (assaulting) attack military aircraft	thermistors RT ∞ absorbers absorbers (materials) attenuation baffles deflectors ∞ diffusers electromagnetic wave filters equalizers (circuits) ∞ filters insulators inverters isolators mufflers power limiters	indicate the attitude of an aircraft or spacecraft with respect to a reference coordinate system throughout 360 degrees of rotation about each axis of the craft.  GS gyroscopes . attitude gyros gyro horizons  RT control moment gyroscopes sea keeping  attitude indicators  UF helicopter attitude indicators yawmeters  GS flight instruments . attitude indicators gyro horizons measuring instruments . indicating instruments
attackin UF GS RT &	jet aircraft military aircraft military helicopters MRCA aircraft supersonic aircraft terrain following V/STOL aircraft  g (assaulting) assaulting violence . attacking (assaulting) attack military aircraft tactics warfare	thermistors RT ∞ absorbers absorbers (materials) attenuation baffles deflectors ∞ diffusers electromagnetic wave filters equalizers (circuits) ∞ filters insulators inverters isolators mufflers power limiters radiation shielding	indicate the attitude of an aircraft or spacecraft with respect to a reference coordinate system throughout 360 degrees of rotation about each axis of the craft.  GS gyroscopes . attitude gyros . gyro horizons  RT control moment gyroscopes sea keeping  attitude indicators  UF helicopter attitude indicators yawmeters  GS flight instruments . attitude indicators . gyro horizons measuring instruments . indicating instruments . indicating instruments . attitude indicators . attitude indicators
attackin UF GS RT «	jet aircraft military aircraft military helicopters MRCA aircraft supersonic aircraft terrain following V/STOL aircraft  g (assaulting) assaulting violence . attacking (assaulting) attack military aircraft tactics warfare	thermistors RT ∞ absorbers     absorbers (materials)     attenuation     baffles     deflectors     diffusers     electromagnetic wave filters     equalizers (circuits)     filters     insulators     inverters     isolators     mufflers     power limiters     radiation shielding     reflectors	indicate the attitude of an aircraft or spacecraft with respect to a reference coordinate system throughout 360 degrees of rotation about each axis of the craft.  GS gyroscopes . attitude gyros gyro horizons  RT control moment gyroscopes sea keeping  attitude indicators  UF helicopter attitude indicators yawmeters  GS flight instruments . attitude indicators gyro horizons measuring instruments . indicating instruments attitude indicators gyro horizons metasuring instruments attitude indicators gyro horizons
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attackin UF GS RT   attention RT  attenual DEF	jet aircraft military aircraft military helicopters MRCA aircraft supersonic aircraft terrain following V/STOL aircraft  g (assaulting) assaulting violence . attacking (assaulting) attack military aircraft tactics warfare  n alertness consciousness tion Reducing in intensity. attenuation . atmospheric attenuation	thermistors RT ∞ absorbers absorbers (materials) attenuation baffles deflectors ∞ diffusers electromagnetic wave filters equalizers (circuits) ∞ filters insulators inverters isolators mufflers power limiters radiation shielding reflectors shielding silencers suppressors  attitude (inclination) DEF The position or orientation of an air- craft, spacecraft, etc., either in motion or at rest, as determined by the relationship between its	indicate the attitude of an aircraft or spacecraft with respect to a reference coordinate system throughout 360 degrees of rotation about each axis of the craft.  GS gyroscopes . attitude gyros gyro horizons  RT control moment gyroscopes sea keeping  attitude indicators  UF helicopter attitude indicators yawmeters  GS flight instruments . attitude indicators gyro horizons measuring instruments . indicating instruments attitude indicators gyro horizons navigation aids . navigation instruments . attitude indicators gyro horizons navigation instruments . attitude indicators gyro horizons navigation instruments . attitude indicators gyro horizons RT aircraft instruments
attackin UF GS RT   attention RT  attenual DEF	jet aircraft military aircraft military helicopters MRCA aircraft supersonic aircraft terrain following V/STOL aircraft  g (assaulting) assaulting violence . attacking (assaulting) attack military aircraft tactics warfare  n alertness consciousness tion Reducing in intensity. attmuation . atmospheric attenuation . auroral absorption	thermistors RT ∞ absorbers absorbers (materials) attenuation baffles deflectors ∞ diffusers electromagnetic wave filters equalizers (circuits) ∞ filters insulators inverters isolators mufflers power limiters radiation shielding reflectors shielding silencers suppressors  attitude (inclination) DEF The position or orientation of an air- craft, spacecraft, etc., either in motion or at rest, as determined by the relationship between its axes and some reference line or plane or some	indicate the attitude of an aircraft or spacecraft with respect to a reference coordinate system throughout 360 degrees of rotation about each axis of the craft.  GS gyroscopes . attitude gyros . gyro horizons  RT control moment gyroscopes sea keeping  attitude indicators  UF helicopter attitude indicators yawmeters  GS flight instruments . attitude indicators . gyro horizons measuring instruments . indicating instruments . attitude indicators . gyro horizons navigation aids . navigation instruments . attitude indicators . gyro horizons RT aircraft instruments control moment gyroscopes flight control
attackin UF GS RT   attention RT  attenual DEF	jet aircraft military aircraft military helicopters MRCA aircraft supersonic aircraft terrain following V/STOL aircraft  g (assaulting) assaulting violence . attacking (assaulting) attack military aircraft tactics warfare  n alertness consciousness tion Reducing in intensity. attenuation . atmospheric attenuation . auroral absorption . microwave attenuation	thermistors RT ∞ absorbers     absorbers (materials)     attenuation     baffles     deflectors     odiffusers     electromagnetic wave filters     equalizers (circuits)     ofilters     insulators     inverters     isolators     mufflers     power limiters     radiation shielding     reflectors     shielding     silencers     suppressors  attitude (inclination)  DEF The position or orientation of an aircraft, spacecraft, etc., either in motion or at rest, as determined by the relationship between its axes and some reference line or plane or some fixed system of reference axes. Used for spatial	indicate the attitude of an aircraft or spacecraft with respect to a reference coordinate system throughout 360 degrees of rotation about each axis of the craft.  GS gyroscopes . attitude gyros gyro horizons RT control moment gyroscopes sea keeping  attitude indicators  UF helicopter attitude indicators yawmeters GS flight instruments . attitude indicators gyro horizons measuring instruments . indicating instruments attitude indicators gyro horizons navigation aids . navigation instruments attitude indicators gyro horizons RT aircraft instruments control moment gyroscopes flight control  attitude stability
attackin UF GS RT   attention RT  attenual DEF	jet aircraft military aircraft military helicopters MRCA aircraft supersonic aircraft terrain following V/STOL aircraft  g (assaulting) assaulting violence . attacking (assaulting) attack military aircraft tactics warfare  n alertness consciousness tion Reducing in intensity. attenuation . auroral absorption . microwave attenuation . sidelobe reduction	thermistors RT ∞ absorbers absorbers (materials) attenuation baffles deflectors odiffusers electromagnetic wave filters equalizers (circuits) ofilters insulators inverters isolators mufflers power limiters radiation shielding reflectors shielding silencers suppressors  attitude (inclination) DEF The position or orientation of an aircraft, spacecraft, etc., either in motion or at rest, as determined by the relationship between its axes and some reference line or plane or some fixed system of reference axes. Used for spatial orientation, tilt, and tilting.	indicate the attitude of an aircraft or spacecraft with respect to a reference coordinate system throughout 360 degrees of rotation about each axis of the craft.  GS gyroscopes . attitude gyros gyro horizons  RT control moment gyroscopes sea keeping  attitude indicators  UF helicopter attitude indicators yawmeters  GS flight instruments . attitude indicators gyro horizons measuring instruments . indicating instruments attitude indicators gyro horizons navigation aids navigation instruments attitude indicators gyro horizons navigation aids attitude indicators gyro horizons navigation aids attitude indicators gyro horizons navigation moments attitude indicators gyro horizons aircraft instruments control moment gyroscopes flight control  attitude stability UF satellite attitude disturbance
attackin UF GS RT   attention RT  attenual DEF	jet aircraft military aircraft military helicopters MRCA aircraft supersonic aircraft terrain following V/STOL aircraft  g (assaulting) assaulting violence . attacking (assaulting) attack military aircraft tactics warfare  n alertness consciousness tion Reducing in intensity. attenuation . atmospheric attenuation . auroral absorption . microwave attenuation	thermistors RT ∞ absorbers     absorbers (materials)     attenuation     baffles     deflectors     odiffusers     electromagnetic wave filters     equalizers (circuits)     ofilters     insulators     inverters     isolators     mufflers     power limiters     radiation shielding     reflectors     shielding     silencers     suppressors  attitude (inclination)  DEF The position or orientation of an aircraft, spacecraft, etc., either in motion or at rest, as determined by the relationship between its axes and some reference line or plane or some fixed system of reference axes. Used for spatial	indicate the attitude of an aircraft or spacecraft with respect to a reference coordinate system throughout 360 degrees of rotation about each axis of the craft.  GS gyroscopes . attitude gyros gyro horizons RT control moment gyroscopes sea keeping  attitude indicators  UF helicopter attitude indicators yawmeters GS flight instruments . attitude indicators gyro horizons measuring instruments . indicating instruments attitude indicators gyro horizons navigation aids . navigation instruments attitude indicators gyro horizons RT aircraft instruments control moment gyroscopes flight control  attitude stability

	motion stability		auditory signals		Weber test
	attitude stability		signal processing		
	directional stability		signal transmission		y sensation areas
	gyroscopic stability		∞ signals		In acoustics, the frequency region en
	lateral stability				by the curves defining the threshold of
	longitudinal stability	audio			d the threshold of audibility.
	stability		ded February 1992)	RT	auditory perception
	. dynamic stability	RT	acoustics		auditory stimuli
	. motion stability		audio visual material		bioacoustics
	attitude stability		information		thresholds (perception)
	directional stability		magnetic tapes		
	gyroscopic stability		∞ tapes		y signals
	lateral stability		video tapes	UF	chimes
DT	longitudinal stability			RT	audio signals
RT	aerodynamic stability	audio	visual equipment		bells
	aircraft stability		led September 1993)		cues
	Discos (satellite attitude control)	RT	audio equipment		horns
	hovering stability		display devices		monaural signals
	low speed stability satellite attitude control		multimedia		psychoacoustics
	spacecraft motion		training devices		signal mixing
	spacecraft motion spacecraft stability		video equipment		∞ signals
	tumbling motion		visual aids		warning
	turnoling motion				warning systems
attraction	on	audio	visual material		
RT	affinity	(add	ded September 1993)	auditor	y stimuli
	field theory (physics)	RT	audio tapes	GS	stimulation
~	o force		multimedia		. auditory stimuli
	gravitational fields		visual aids	RT	acoustics
	gramational notae				audiometry
attracto	ors (mathematics)	audiol	ogy		auditory sensation areas
	ed June 1997)	RT	audiometry		noise (sound)
	attractors (mathematics)		auditory fatigue		noise intensity
	. strange attractors		auditory perception		sound generators
RT	asymptotic properties		hearing		sound intensity
	chaos				∞ stimuli
	dynamical systems	audion	netrv		thresholds (perception)
	nonlinear systems		The testing and measurement of hear-		
	stochastic processes		various levels.	auditor	y tasks
	trajectories	RT	acoustic measurement	GS	tasks
			audiology		. auditory tasks
attribute	9S		auditory defects	RT	acoustics
USE	properties		auditory fatigue		hearing
			auditory perception		noise (sound)
	(materials)		auditory stimuli		
USE	comminution		hearing	aufeis	(ice)
			masking	DEF	Icing of ground or river water in Arcti-
audio d			∞ measurement	areas v	vith continuous permafrost on which the
DEF	Useful information at audio signal fre-		thresholds (perception)	water h	as continued to flow.
quency.				RT	ice
RT	audio frequencies	audito	ry defects		melting
0	o data	UF			permafrost
	data transmission		hearing loss		rivers
		GS	defects		
	quipment		. auditory defects	Auger	effect
GS	audio equipment	RT	audiometry	DEF	The nonradiative transition of an ator
	earphones		bioacoustics	from a	n excited electronic energy state to
	. loudspeakers		disabilities	lower st	tate with the emission of an electron. The
РΤ	. microphones		losses	term us	ually refers to the x ray region of energ
RT	audio visual equipment				The final state corresponds to one highe
0	o equipment monaural signals	audito	ry fatique		of ionization than does the initial state
	monaurai signais	GS	fatigue (biology)		ect is an alternative process to the tran
audio fi	requencies		auditory fatigue		a lower state having the same degree of
SN	(APPROXIMATELY 20 TO 20,000 HZ)	RT	audiology		on with the emission of an x ray photor
DEF	Frequencies corresponding to nor-		audiometry		s is analogous to the internal conversion
	udible sound waves.		hearing		clear transmission.
GS	frequencies		noise threshold	RT	cosmic ray showers
	. acoustic frequencies				∞ effects
	. audio frequencies	audito	ry perception		electron transitions
	quefrencies	UF	sound perception		Langmuir turbulence
RT	acoustic measurement	GS	perception		
	audio data		. sensory perception		showers
	audio signals		auditory perception		led August 1997)
	auditory perception	RT	acoustics	USE	cosmic ray showers
	cepstral analysis		audio frequencies		
	extremely low frequencies		audiology		spectroscopy
	monaural signals		audiometry	GS	spectroscopy
	noise pollution		auditory sensation areas		Auger spectroscopy
	radio frequencies		binaural hearing	RT	chemical analysis
	sound generators		ear		electron transitions
	sound transmission		earphones		spectroscopic analysis
	sound waves		monaural signals		thermites
	very low frequencies		noise threshold		
	voice		psychoacoustics	augme	ntation
			sensitivity	ŬF	enhancement
audio s	ignals		sound localization	GS	augmentation
DEF	Signals with a bandwidth of less than		sound waves		. stability augmentation
20 kiloh			speech		. thrust augmentation
RT	audio frequencies		thresholds (perception)	RT	increasing
			-		

spatial filtering sky brightness electricity . atmospheric electricity solar activity **AUOS** . . ionospheric currents x rays **Automatic Universal Orbiting** USE ... electrojets Stations . . auroral electrojets ausforming Birkeland currents GS forming techniques Aura spacecraft equatorial electrojet . hot working (added May 2005) telluric currents . . ausforming DEF The third of a series of Earth Observmetal working ing System (EOS) spacecraft developed to adauroral ionization ausforming vance the understanding of the ways that the ionization RT forging Earth's lands, oceans, air, ice, and life function . gas ionization ∞ rolling as a total environmental system. Aura studies . . atmospheric ionization the Earth's ozone, air quality and climate, and is ... auroral ionization designed exclusively to conduct research on the auroras A solid solution of carbon in gammacomposition, chemistry and dynamics of the excitation Earth's upper and lower atmosphere employing light emission allotropy multiple instruments on a single satellite. The photoionization ferrites spacecraft carries four instruments: the High iron alloys red arcs Resolution Dynamics Limb Sounder (HIRDLS), martensite the Microwave Limb Sounder (MLS), Ozone auroral irradiation martensitic transformation Monitoring Instrument (OMI), and the Tropo-GS irradiation microstructure . auroral irradiation spheric Emission Spectrometer (TES). steels GS artificial satellites auroras . scientific satellites electron irradiation austenitic stainless steels DEF Steels having at room temperature a . Aura spacecraft excitation Earth Observing System (EOS) ion irradiation microstructure consisting, at least predomi-Aura spacecraft nantly, of austenite. Their austenitic microstrucphotoionization ture is attained above all by alloying conditions, Aqua spacecraft CALIPSO (Pathfinder satellite) auroral spectroscopy e.g., manganese and nickel. GS alloys CloudSat spectroscopy GS data products auroral spectroscopy . iron alloys . . steels Earth observations (from space) channel multipliers . . . stainless steels Fabry-Perot spectrometers remote sensing light emission ... austenitic stainless steels Terra spacecraft optical emission spectroscopy RT martensitic stainless steels Auriga constellation spectroscopic analysis time temperature parameter constellations GS visible spectrum **Austin comet** Auriga constellation auroral temperature (added May 1991) RT Zeta Aurigae star GS celestial bodies GS temperature . comets Aurora 7 . atmospheric temperature GS manned spacecraft . auroral temperature . . Austin comet . Mercury spacecraft RT auroras ion temperature Australia Aurora 7 GS continents reentry vehicles ionospheric temperature recoverable spacecraft . Australia nations auroral zones . . Mercury spacecraft DEF Roughly circular bands around either Australia . . Aurora 7 geomagnetic pole above which there is a maxi-Australian space program soft landing spacecraft mum of auroral activity. The zones lie about 10 Papua New Guinea Mercury spacecraft deg. to 15 deg. of geomagnetic latitude from the Tasmania . Aurora 7 geomagnetic poles. Torres Strait space capsules GS regions . Mercury spacecraft Australian space program Aurora 7 . auroral zones RT (added February 1989) RT Mercury MA-7 flight auroras GS programs Birkeland currents IMAGE satellite . space programs auroral absorption Australian space program GS attenuation magnetic poles . atmospheric attenuation Pedersen currents RT Australia . auroral absorption polar radio blackout energy absorption australites polar regions celestial bodies . radiation absorption GS . meteorites . . electromagnetic absorption auroras Sporadic radiant emissions from the . . auroral absorption . . stony meteorites ... tektites RT ∞ absorption upper atmosphere over middle and high latilight emission tudes. Used for auroral activity and polar auro-. australites RT bediasites riometers UF auroral activity auroral activity polar auroras Austria USE auroras GS atmospheric radiation GS nations auroras Austria . . auroral arcs Alps Mountains (Europe) auroral arcs GS atmospheric radiation Austrian space program . . . red arcs . radio auroras Central Europe . auroras . . auroral arcs aeronomy Europe . . . red arcs airglow RT ∞ arcs auroral ionization Austrian space program auroral irradiation (added October 1990) auroral echoes auroral temperature programs GS echoes auroral zones . space programs . . European space programs . auroral echoes dawn chorus RT radar echoes Earth atmosphere Austrian space program radio echoes electron precipitation Austria ESRO 4 satellite light emission auroral electrojets autocatalysis catalysis magnetic disturbances electric current GS GS autocatalysis . ionospheric currents niaht sky

Polar/GGS spacecraft

proton precipitation

abiogenesis

catalytic activity

. . electrojets

... auroral electrojets

reaction kinetics

#### autoclaves

autoclaving RT chemical reactors ∞ containers pressure vessels

#### autoclaving

autoclaves RT curing heating leaching powder metallurgy

#### autocoders

languages GS

. programming languages . . Assembly language

. . autocoders

compilers

computer programming computer systems programs machine oriented languages

autocollimators USE collimators

#### autocorrelation

In statistics, the simple linear internal correlation of members of a time series (ordered in time or other domains).

correlation

. autocorrelation cross correlation data correlation Fourier analysis periodic variations time series analysis

#### autodynes

GS circuits . autodynes oscillators autodynes

RT ∞ detectors frequency control heterodyning signal analyzers signal detection signal detectors

autogyros

GS V/STOL aircraft . rotary wing aircraft . . autogyros

. . . Avian 2/180 autogiro

vacuum tube oscillators

autoignition

(added April 1997)

spontaneous combustion

## autoionization

dissociation GS

autoionization ionization autoionization

atomic collisions many electron effects

## autokinesis

perception GS

. sensory perception

. . proprioception

. . visual perception

. . . space perception

## automata theory

adaptive control artificial intelligence ∞ automation

bionics cellular automata computers

cybernetics depersonalization heuristic methods information theory machine learning

model reference adaptive control

self adaptive control systems

theories

Turing machines

## automated en route ATC

DEF 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

DEF 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

automated mixed traffic vehicles RT

conveyors passengers rail transportation rapid transit systems transportation urban transportation ∞ vehicles

# automated mixed traffic vehicles

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.

RT air traffic control

automated en route ATC automatic traffic advisory and resolution

∞ systems

## automated radar terminal system

DEF 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 computer.

air traffic control radar equipment radar tracking ∞ systems

## **Automated Transfer Vehicle**

(added December 1995)
RT 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

RT conveyors electric motor vehicles

passengers rail transportation rapid transit systems transportation

urban transportation

∞ vehicles

#### automatic control

DEF 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 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

GS control equipment

regulators

#### . . automatic control valves

... pressure regulators

. relief valves

valves

## . automatic control valves

. . pressure regulators

. relief valves

RT actuators

∞ control

dampers (valves)

dynamic characteristics fluid amplifiers fluid switching elements

gas valves

hydraulic equipment

pneumatic control servomechanisms

solenoid valves

temperature control

automatic data processing USE data processing

## automatic flight control

AFCS (control system) automatic control GS

. automatic flight control . automatic landing control

flight control

. automatic flight control . automatic landing control

RT aircraft control

aircraft instruments

autonomous navigation

∞ 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

DEF 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 ∞ 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

∞ control feedback control

tuning

automatic indexing

(added April 2000) USE indexing (information science)

## automatic landing control

automatic control

. automatic flight 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)

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

homing

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

RT 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

∞ test equipment

## automatic traffic advisory and resolution

(AUTOMATIC TRAFFIC ADVISORY AND RESOLUTION SERVICE)

DEF Ground based collision avoidance system using the surveillance and data link capabilities of the discrete address beacon system (DABS). Used for ATARS.

ATARS

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)

AUÓS

artificial satellites

. space stations ... Automatic Universal Orbiting

Stations

. space stations . Automatic Universal Orbiting

Stations

 $RT \infty platforms$ 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 automatic weather stations

data acquisition data collection platforms

instrument packages meteorological services

ocean data acquisitions systems

remote sensors weather data recorders

∞ automation

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

instrumental analysis automata theory

automatic control command and control

computer vision

computers control systems design

controllers cybernetics

data processing depersonalization fail-safe systems

feedback control feedforward control

information theory man machine systems materials handling mechanization numerical control office automation remote control robotics self erecting devices self repairing devices servomechanisms systems engineering tooling

## automobile accidents

accidents

## . automobile accidents

accident investigation accident prevention safety devices

## automobile engines

external combustion engines internal combustion engines piston engines rotary engines Stirling engines turbine engines Wankel engines

#### automobile fuels

GS fuels

## automobile fuels

aircraft fuels antiknock additives diesel fuels gasoline hydrocarbon fuels internal combustion engines liquid fuels synthane

## automobiles

ieeps

GS surface vehicles

. motor vehicles automobiles

. . . electric automobiles air bag restraint devices antiskid devices

chassis

electric hybrid vehicles electric motor vehicles

fuel systems hydrogen engines ignition systems

lubrication systems

∞ military vehicles

trailers trucks ∞ vehicles

## automorphisms

algebra

. group theory

. . homomorphisms

automorphisms

## autonomic nervous system

GS anatomy

. nervous system

. . autonomic nervous system

. . sympathetic nervous system

RT involuntary actions

∞ systems

## autonomous docking

(added May 2005)

DEF Automatic, self-controlled docking enabled through the use of specialized hardware, sensors, and algorithms for navigation, guidance, and positioning.

GS maneuvers

. docking

## . autonomous docking

automatic control autonomous navigation interception mooring orbital rendezvous rendezvous guidance

space rendezvous

space stations spacecraft docking spacecraft guidance terminal guidance unmanned spacecraft

## autonomous navigation

GS navigation

autonomous navigation

automatic flight control autonomous docking celestial navigation Deep Space 1 Mission navigation aids navigation instruments satellite navigation systems space navigation spacecraft guidance unmanned ground vehicles

#### autonomous spacecraft clocks

Standard Time scale instruments aboard spacecraft with provisions for synchronization with existing satellite-based system (global positioning system, for example).

measuring instruments

. time measuring instruments

. . clocks

## . autonomous spacecraft clocks

atomic clocks Global Positioning System spacecraft instruments TDR satellites

## autonomy

adaptive control command and control

∞ commands ∞ direction

equations of motion

management

model reference adaptive control self adaptive control systems

autonilots

USE automatic pilots

## autopsies

RT dissection pathology

## autoradiography

DEF A technique that uses x ray film to visualize radioactivly labeled molecules or frag-ments of molecules used in analyzing the length and number of DNA fragements separated by gel electrophoresis.

GS imagery

. photography

. radiography

autoradiography

black and white photography

## autoregressive moving average

(added October 1997)

ARMA (mathematics)

average

## autoregressive moving average

autoregressive processes

estimating IIR filters regression analysis stochastic processes time series analysis

# autoregressive processes

RT autoregressive moving average factor analysis

∞ processes regression analysis statistical analysis

## autorotation

DEF A rotorcraft flight condition in which the lifting rotor is driven entirely by action of the air when the rotorcraft is in motion.

windmilling GS gyration rotation

## . . autorotation

rotary wing aircraft rotochutes

## autotrophs

Organisms capable of synthesizing organic nutrients directly from simple inorganic substances such as carbon dioxide and inorganic nitrogen.

#### GS autotrophs

hydrogenomonas RT heterotrophs

#### autumn

DEF The season of the year between summer and winter. Its beginning is marked by the autumnal equinox and its end by the winter solstice.

GS seasons . autumn

RT spring (season) summer

auxiliary equipment (computers)

USE peripheral equipment (computers)

## auxiliary power sources

## GS auxiliary power sources

. chemical auxiliary power units . nuclear auxiliary power units

.. SNAP

. . . fission electric cells

.... SNAP 2 SNAP 4 SNAP 8 SNAP 10A

SNAP 1 SNAP 3 SNAP 7

SNAP 9A SNAP 11 SNAP 13 SNAP 15

SNAP 17 SNAP 19 SNAP 21 SNAP 23

SNAP 27 SNAP 29 SNAP 50

. . space power reactors

... fission electric cells

. SNAP 2 .... SNAP 4 SNAP 8 .... SNAP 10A ... SNAP 50

space power unit reactors . solar auxiliary power units

. . ASTEC solar turboelectric generator

aircraft power supplies direct power generators

electric batteries electric generators

 ∞ electric power electric power supplies

∞ energy sources ground support equipment

∞ power supplies spacecraft power supplies voltage converters (AC to AC) voltage converters (DC to DC)

## auxiliary propulsion

propulsion

# auxiliary propulsion

aeronautical engineering ∞ astronautics

engines

hydrogen oxygen engines Marguardt R4D engine missiles

propellants propulsion system configurations rocket propellants space flight

space shuttles space station propulsion

000	spacecraft thrust		Avian 2/180 autogiro		jet aircraft . AVRO 707 aircraft
	unust	aviation			monoplanes
auxins			aeronautics		. AVRO 707 aircraft
(adde	ed August 2004)				research vehicles
	Plant hormones which promote tissue		meteorology		. research aircraft
0	hrough cell elongation rather than mul-		Weather conditions and meteorologi-		AVRO 707 aircraft
tiplicatio			es pertaining to aeronautics.		tailless aircraft
GS	plant growth regulators	GS	meteorology	DT	. AVRO 707 aircraft
RT	. auxins gravitropism	RT	. aviation meteorology aircraft accident investigation	HI≪	aircraft
וח	plant physiology	п	aircraft accidents		delta wings Vulcan aircraft
	plant roots		aircraft hazards		vulcan ancian
	plants (botany)		aircraft icing	AVRO V	Vhitworth HS-748 aircraft
			atmospheric turbulence	USE	HS-748 aircraft
AV-8A a			civil aviation		
USE	Harrier aircraft		clear air turbulence		aircraft
			downbursts		Airborne Warning and Control Systen
AV-8B a			flight conditions	GS	AWACS aircraft
USE	Harrier aircraft		flight hazards		. E-2 aircraft . E-3A aircraft
availabi	lity		flight safety		. E-4A aircraft
GS	availability		fog meteorological parameters	RT ∝	aircraft
ao	. bioavailability		meteorological services		Boeing aircraft
RT	abundance		microbursts (meteorology)		command and control
	energy policy	∞	military aviation		early warning systems
	reserves		nowcasting		Grumman aircraft
	resources		numerical weather forecasting	∞	military aircraft
			runway conditions		military technology
	he diodes		wind shear		
	A solid state device that takes advan-			awards	(5)(0) (1050 00)(74070 0 00)
	avalanche multiplication of the photocur-		psychology	SN DEF	(EXCLUDES CONTACTS & GRANTS) Distinctions that are bestowed upon a
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UF	TRAPATT diodes		. aerospace medicine	tions to	
	Zener diodes		aviation psychology	RT	astronauts
GS	electronic equipment		psychology . aviation psychology		biography
ao	. diodes	RT	aircraft pilots		engineers
	semiconductor diodes	п	military psychology		scientists
	avalanche diodes		pilot training		
	cryosar		psychological effects	AXAF	
	. solid state devices		psychological factors	USE	X Ray Astrophysics Facility
	semiconductor devices		space psychology	2000 (00	pordinates)
	avalanche diodes				coordinates
	cryosar	aviators		002	oooramatoo
	rectifiers		aircraft pilots	axes (re	eference lines)
	rectifiers . avalanche diodes	USE	-		eference lines) axes (reference lines)
DT	rectifiers . avalanche diodes cryosar	USE avionics	S		axes (reference lines) . axes of rotation
RT	rectifiers . avalanche diodes cryosar Barritt diodes	USE avionics DEF	s The use of electronics in all its forms in	GS	axes (reference lines) . axes of rotation . Earth axis
RT	rectifiers . avalanche diodes cryosar Barritt diodes ion implantation	USE avionics DEF airborne	The use of electronics in all its forms in or aerospace vehicles.	GS	axes (reference lines) . axes of rotation
RT	rectifiers . avalanche diodes cryosar Barritt diodes ion implantation negative conductance	USE avionics DEF airborne	The use of electronics in all its forms in or aerospace vehicles.	GS RT	axes (reference lines) . axes of rotation . Earth axis coordinates
RT	rectifiers . avalanche diodes cryosar Barritt diodes ion implantation negative conductance TRAPATT devices	USE avionics DEF airborne	The use of electronics in all its forms in or aerospace vehicles. aeronautics airborne equipment	GS RT axes of	axes (reference lines) . axes of rotation . Earth axis coordinates rotation
RT	rectifiers . avalanche diodes cryosar Barritt diodes ion implantation negative conductance	USE avionics DEF airborne	The use of electronics in all its forms in or aerospace vehicles.  • aeronautics • airborne equipment • aircraft communication	GS RT axes of	axes (reference lines) . axes of rotation . Earth axis coordinates  rotation axes (reference lines)
RT avalanc	rectifiers . avalanche diodes cryosar Barritt diodes ion implantation negative conductance TRAPATT devices voltage regulators	USE avionics DEF airborne	The use of electronics in all its forms in or aerospace vehicles. aeronautics airborne equipment	GS RT axes of	axes (reference lines) . axes of rotation . Earth axis coordinates  rotation axes (reference lines) . axes of rotation
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avalance GS RT  AVCS USE  average GS RT  AVHRR USE  Avian 2	rectifiers . avalanche diodes cryosar Barritt diodes ion implantation negative conductance TRAPATT devices voltage regulators hes avalanches . electron avalanche . Townsend avalanche Earth movements electric discharges ion production rates ionizing radiation  Advanced Vidicon Camera System (AVCS)  average . autoregressive moving average . mean distribution moments median (statistics) mode (statistics) normality norms quality control Reynolds averaging  Advanced Very High Resolution Radiometer  //180 autogiro	USE  avionics DEF airborne RT ~	The use of electronics in all its forms in or aerospace vehicles.  aeronautics airborne equipment aircraft communication aircraft equipment aircraft equipment aircraft instruments astrionics astronautics control electronics flat panel displays flight management systems guidance (motion) head-up displays modularity pilot support systems self tests single event upsets systems integration test equipment video landmark acquisition and tracking  (ce avoidance Collision avoidance Beacon Collision Avoidance accident prevention hazards traffic traffic control warning systems	GS  RT  axes of GS  RT  axial co GS  RT  axial co USE  axial flo GS	axes (reference lines) . axes of rotation . Earth axis coordinates  rotation axes (reference lines) . axes of rotation . Earth axis bodies of revolution rotating bodies rotation shafts (machine elements) symmetrical bodies  mpression loads loads (forces) . axial compression loads . axial compression loads . axial compression loads aerodynamic loads sompressing dynamic loads static loads structural design criteria thrust loads  mpressors turbocompressors  my fluid flow axial flow annular flow axisymmetric flow coaxial flow
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avalance GS RT  AVCS USE  average GS RT  AVHRR USE  Avian 2	rectifiers . avalanche diodes cryosar Barritt diodes ion implantation negative conductance TRAPATT devices voltage regulators hes avalanches . electron avalanche . Townsend avalanche Earth movements electric discharges ion production rates ionizing radiation  Advanced Vidicon Camera System (AVCS)  average . autoregressive moving average . mean distribution moments median (statistics) mode (statistics) normality norms quality control Reynolds averaging  Advanced Very High Resolution Radiometer  /180 autogiro research vehicles . research aircraft . Avian 2/180 autogiro V/STOL aircraft	USE  avionics DEF airborne RT ~	The use of electronics in all its forms in or aerospace vehicles. aeronautics airborne equipment aircraft communication aircraft equipment aircraft equipment aircraft instruments astrionics astronautics control electronics flat panel displays flight management systems guidance (motion) head-up displays modularity pilot support systems self tests single event upsets systems integration test equipment video landmark acquisition and tracking  ICC avoidance . collision avoidance . Beacon Collision Avoidance System . vortex avoidance accident prevention hazards traffic traffic control warning systems  198 aircraft Vulcan aircraft  107 aircraft  107 aircraft  108 aircraft  108 aircraft  108 aircraft  108 aircraft  109 aircraft  109 aircraft  109 aircraft  107 aircraft	GS  RT  axes of GS  RT  axial co GS  RT  axial co USE  axial flo GS	axes (reference lines) . axes of rotation . Earth axis coordinates  rotation axes (reference lines) . axes of rotation . Earth axis bodies of revolution rotating bodies rotation shafts (machine elements) symmetrical bodies  mpression loads loads (forces) . axial compression loads . axial compression loads . axial compression loads serodynamic loads compressing dynamic loads shock loads static loads structural design criteria thrust loads  mpressors turbocompressors  my fluid flow axial flow annular flow axisymmetric flow coaxial nozzles counterflow discharge coefficient flow geometry
avalance GS RT  AVCS USE  average GS RT  AVHRR USE  Avian 2	rectifiers . avalanche diodes cryosar Barritt diodes ion implantation negative conductance TRAPATT devices voltage regulators hes avalanches . electron avalanche . Townsend avalanche Earth movements electric discharges ion production rates ionizing radiation  Advanced Vidicon Camera System (AVCS)  average . autoregressive moving average . mean distribution moments median (statistics) mode (statistics) normality norms quality control Reynolds averaging  Advanced Very High Resolution Radiometer  /180 autogiro research vehicles . research aircraft . Avian 2/180 autogiro	USE  avionics DEF airborne RT ~	The use of electronics in all its forms in or aerospace vehicles.  aeronautics airborne equipment aircraft communication aircraft equipment aircraft instruments astrionics astronautics control electronics flat panel displays flight management systems guidance (motion) head-up displays modularity pilot support systems self tests single event upsets systems integration etest equipment video landmark acquisition and tracking  toce  avoidance  . collision avoidance  . Beacon Collision Avoidance  System  . vortex avoidance  accident prevention hazards traffic traffic control warning systems  198 aircraft  Vulcan aircraft	GS  RT  axes of GS  RT  axial co GS  RT  axial co USE  axial flo GS	axes (reference lines) . axes of rotation . Earth axis coordinates  rotation axes (reference lines) . axes of rotation . Earth axis bodies of revolution rotating bodies rotation shafts (machine elements) symmetrical bodies  mpression loads loads (forces) . axial compression loads . axial compression loads . axial compression loads serodynamic loads compressing dynamic loads shock loads static loads structural design criteria thrust loads  mpressors turbocompressors  w fluid flow . axial flow annular flow axisymmetric flow coaxial flow coaxial nozzles counterflow discharge coefficient

	three dimensional flow		conical bodies		look angles (tracking)
	two dimensional flow		ducted bodies		navigation
			lenticular bodies	۰	orientation
axial flo	w compressors		missile bodies		position (location)
USE	turbocompressors		slender bodies		
			slender cones	azines	
axial flo	ow pumps		streamlined bodies	GS	organic compounds
GS	pumps				. cyclic compounds
	. axial flow pumps	axisym	metric deformation		heterocyclic compounds
	turbine pumps	USE	axial strain		azines
RT	centrifugal pumps				cyanurates
	fuel pumps	axisym	metric flow		cyanuric acid
		GS	fluid flow		meclizine
axial flo	ow turbines		. axisymmetric flow		methylene blue
GS	turbomachinery		annular flow		phenothiazines
	. turbines		Karman-Bodewadt flow		pyrazines
	axial flow turbines	RT	axial flow		. azines
RT	gas turbine engines		coaxial flow		cyanurates
	gas turbines		conical flow		cyanuric acid
	steam turbines		Couette flow		meclizine
			Crocco method		methylene blue
axial lo	ads		cylindrical waves		phenothiazines
GS	loads (forces)		flow geometry	RT	dyes
	. axial loads		helical flow		
	axial compression loads		three dimensional boundary layer		npounds
RT	aerodynamic loads			GS	nitrogen compounds
	compression loads	axisym	metry		. azo compounds
	dynamic loads	USE	symmetry		HMX
	static loads				RDX
	structural design criteria	axles		RT •	∘ chemical compounds
	thrust loads	USE	shafts (machine elements)		dyes
axial m	odes	axons		azoles	0 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
DEF	Regimes of vibration along a given	GS	cells (biology)	DEF	Compounds that contain a five-
axis.	0 0		. neurons		red heterocylic ring containing one or
GS	modes		axons		trogen atoms.
	. axial modes	RT	myelin sheath	GS	organic compounds
RT	combustion stability		nerve fibers		. cyclic compounds
	laser modes		neurotransmitters		heterocyclic compounds
	propellant combustion				azoles
	rocket engines	azeotro	•		acetazolamide
	Tooker enginee	RT	binary mixtures		oxazole
axial st	rain		mixtures		pyrroles
	Linear strain in a plane parallel to the		solutions		carbazoles
	inal axis of the specimen. Used for axi-			A =====	
	ric deformation and uniaxial strain.	Azerba	-	Azores	ad July 1001)
UF	axisymmetric deformation		ed August 1993)		ed July 1991)
0.	uniaxial strain	GS		GS	landforms
GS	deformation		Azerbaijan		. islands
0.0	. axial strain	RT	Asia		Azores
RT	elastic deformation		Europe		nations
	Euler-Bernoulli beams	!-!	(increenic)		. Portugal
	stress-strain diagrams		(inorganic)	ОТ	Azores
	structural strain	GS	nitrogen compounds	RT	Atlantic Ocean
	otraotarar otrairi		. azides (inorganic)	Azotob	acter
axial st	ress		hydrogen azides	GS	microorganisms
GS	stresses		sodium azides	ao	. bacteria
ao	. axial stress	azidae	(organic)		Azotobacter
RT	tensile stress		nitrogen compounds		ALGIGIAGIO
	torione etroce	do	. azides (organic)	azulene	•
axioms			sodium azides	GS	organic compounds
UF	postulates		triaminoguanidinium azide		. cyclic compounds
GS	mathematical logic	RT	explosives		heterocyclic compounds
ao	. axioms	пі	explosives		azulene
RT	knowledge	azimut	h		terpenes
	o logic	DEF			azulene
	o nogic o mathematics		r azimuth.		
~	mantematics	UF	solar azimuth	Azur sa	
avieum	metric bodies	RT	altitude	GS	artificial satellites
GS	symmetrical bodies	пі	angles (geometry)		. scientific satellites
uo	. axisymmetric bodies		astronomical coordinates		Azur satellite
	power law bodies		bearing (direction)	RT	European space programs
DT	blunt bodies		celestial reference systems		international cooperation
	o bodies		∞ direction		West Germany
•	bodies of revolution		elevation angle		
	DOUIDS OF IEVOIULION		cicvation angle		

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	3,
	B stars	monoplanes	baboons
	shell stars	. B-52 aircraft	GS animals
	Sigma Orionis	RT ∞ aircraft	. vertebrates
RT			mammals
ΠI	blue stars	Pegasus air-launched booster	
	Herbig-Haro objects	turbofan engines	primates
	limb brightening	· · ·	baboons
	limb darkening	B-57 aircraft	DAO 444 sinsueft
	peculiar stars	UF Canberra bomber	BAC 111 aircraft
	Population I stars	RB-57 aircraft	GS BAC aircraft
	stellar composition	GS attack aircraft	. BAC 111 aircraft
	Wolf-Rayet stars	. bomber aircraft	jet aircraft
	•	B-57 aircraft	. turbofan aircraft
B-1 airc	raft	jet aircraft	BAC 111 aircraft
GS	attack aircraft	. B-57 aircraft	monoplanes
	. bomber aircraft	Martin aircraft	BAC 111 aircraft
	B-1 aircraft	. B-57 aircraft	passenger aircraft
	jet aircraft	monoplanes	. BAC 111 aircraft
	. B-1 aircraft	. B-57 aircraft	transport aircraft
			. BAC 111 aircraft
	North American aircraft	RT ∞ aircraft	RT ∞ aircraft
	. B-1 aircraft	Canberra aircraft	HI ∞ aircrait
RT∝	aircraft	P. FO. day of	DAO sinonett
	bombing equipment	B-58 aircraft	BAC aircraft
	bombs (ordnance)	UF Hustler aircraft	UF British Aircraft Corp aircraft
	combat	GS attack aircraft	GS BAC aircraft
~	military aircraft	. bomber aircraft	. BAC 111 aircraft
	multiengine vehicles	B-58 aircraft	. Canberra aircraft
	warfare	General Dynamics aircraft	. H-126 aircraft
~	winged vehicles	. B-58 aircraft	. jet provost aircraft
	Williged Verlieles	jet aircraft	. Scimitar aircraft
B-2 airc	roft	, B-58 aircraft	. TSR-2 aircraft
	ed September 1992)	monoplanes	. Valiant aircraft
UF	stealth bomber	. B-58 aircraft	. VC-10 aircraft
			. Viscount aircraft
GS	attack aircraft	supersonic aircraft	
	. bomber aircraft	. B-58 aircraft	RT ∞ aircraft
	B-2 aircraft	tailless aircraft	DAG TOD 6 / //
	jet aircraft	. B-58 aircraft	BAC TSR 2 aircraft
	. B-2 aircraft	RT ∞ aircraft	USE TSR-2 aircraft
RT ∝	aircraft aircraft		
00	military aircraft	B-66 aircraft	Bacillus
	stealth technology	UF Destroyer aircraft	SN (RESTRICTED TO MEMBERS OF THE
	X-36 aircraft	RB-66 aircraft	GENUS BACILLUS; DOES NOT INCLUDE
	7. 00 directall	GS attack aircraft	GENERAL MORPHOLOGICAL CLASSIFICATIONS)
B-26 aiı	craft	. bomber aircraft	GS microorganisms
UF	Invader aircraft	B-66 aircraft	. bacteria
GS	attack aircraft	jet aircraft	Bacillus
ao	. bomber aircraft	. B-66 aircraft	
			stearothermophilus
	B-26 aircraft	McDonnell Douglas aircraft	haala ladaadaa
	Martin aircraft	. Douglas aircraft	back injuries
	B-26 aircraft	B-66 aircraft	GS injuries
	monoplanes	monoplanes	. back injuries
	. B-26 aircraft	. B-66 aircraft	RT spinal cord injuries
RT ∝	aircraft	RT ∞ aircraft	whiplash injuries
B-47 aiı	craft	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	hard Consideration
	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-
		B-70 aircraft	tor.
B-50 aiı	craft	supersonic aircraft	GS antennas
	RB-50 aircraft	. B-70 aircraft	. backfire antennas
	superfortress aircraft	RT ∞ aircraft	RT antenna radiation patterns
GS	attack aircraft	anoran	dipole antennas
40	. bomber aircraft	B-103 aircraft	endfire arrays
	B-50 aircraft	USE Buccaneer aircraft	microwave antennas
	Boeing aircraft	habbitt matal	radio antennas
	. B-50 aircraft	babbitt metal	hard and a factor
	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
RT ∝	aircraft	antimony, copper, and other metals, and used	system noise independent of whether or not a
		for bearings.	signal is present. The signal is not to be included
B-52 aiı	craft	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
5.5			

86

cosmic noise elastic waves electromagnetic noise ionospheric noise noise (sound) noise measurement noise spectra noise threshold  $\infty$  radiation random noise ∞ rays signal to noise ratios squelch circuits

#### background radiation

## background radiation

. cosmic microwave background radiation

anticoincidence detectors big bang cosmology continuous radiation corpuscular radiation Cosmic Background Explorer satellite cosmic noise electromagnetic noise extraterrestrial radiation

ionospheric noise ∞ radiation relic radiation sky radiation

high altitude tests

backings USE backups

#### backlobes

Radiation lobes whose axes make angles of approximately 180 degrees with respect to the axes of the major lobes of the antennas. By extension radiation lobes in the half-space opposed to the direction of peak activity.

RT antenna design antenna radiation patterns directional antennas

## backpropagation (artificial intelligence)

(added December 2001)

DEF A learning algorithm which minimizes the error function of perceptron neural nets by comparing the actual and desired outputs and adjusting the weights of each neuron layer.

GS mathematical logic

. algorithms

#### ... backpropagation (artificial intelligence)

RT artificial intelligence computer techniques error analysis least squares method machine learning neural nets optimization

## backscattering

DEF Scattering of radiation in a direction having a component opposite its original direction of propagation.

scattering GS

## backscattering

differential absorption lidar forward scattering laser plasma interactions microwave signatures nuclear scattering scatter propagation

backshores

USE beaches

## backups

DEF Items kept available to replace items which fail to perform satisfactorily. Items under development intended to perform the same general functions another item also under development performs. Used for backings.

UF backings

RT redundant components reserves weldina

## backward differencing

DEF A method of solving a parabolic problem for approximating a time derivative in terms of a previous time step.

differential equations numerical stability problem solving

#### backward facing steps

A step structure which faces an oncoming flow. Used for rearward facing steps.

rearward facing steps boundary layer flow flow geometry fluid boundaries forward facing steps reattached flow recirculative fluid flow stairsteps ∞ steps

#### backward wave tubes

GS electron tubes . vacuum tubes . . microwave tubes . . . traveling wave tubes .... backward wave tubes . . helitrons microwave equipment . microwave tubes

. . traveling wave tubes ... backward wave tubes

. . helitrons beam currents electron transfer microwave oscillators

#### backward waves

DEF In traveling wave tubes, waves whose group velocity is opposite to the direction of electron-stream motion.

elastic waves electromagnetic radiation solitary waves transmission lines traveling wave tubes traveling waves

## backwash

(EXCLUDES PROCESSES OF BACKWASHING) sidewash SN UF boundary layer stability RT downwash

slinstreams Strouhal number turbulence wakes

## bacteria

GS microorganisms

. bacteria

. . actinomycetes

archaebacteria

Azotobacter

. . Bacillus

stearothermophilus

. . Clostridium

. Clostridium botulinum . . Escherichia

hydrogenomonas . . Klebsiella

. . nitrobacter . . pseudomonas

. . salmonella

. . sarcina

. . serratia

. . staphylococcus

. . streptococcus

. streptomycetes

aerobes anaerobes

bacteriology biofilms

biological weapons

bliaht colonies

eukaryotes gnotobiotics invertebrates panspermia pathogens prokaryotes saprophytes waste treatment

## bacterial diseases

(EXCLUDES PLANT DISEASES)

diseases

. infectious diseases

. . bacterial diseases

. . . cholera

diphtheria keratitis syphilis

tuberculosis typhoid

. . typhus Clostridium conjunctivitis dermatitis encephalitis meningitis nephritis

pneumonia

## bactericides

Agents that destroy microorganisms. Also known as germicides. Used for germicides.

germicides

antiinfectives and antibacterials

antiseptics chemical sterilization ethylene oxide fumigation sterilization

bacteriology GS microbiology bacteriology archaebacteria

bacteria biochemistry

 biology
 Clostridium botulinum colonies endotoxins gnotobiotics

## bacteriophages

microorganisms GS viruses

vaccines

bacteriophages

RT interferon

## hadlands

DEF Intricately stream-dissected topogra-phy, characterized by a very fine drainage network with high drainage densities (77 to 747 miles per square mile) and short steep slopes with narrow interflues. Badlands develop on the surface with little or no vegetative cover, overlying unconsolidated or poorly cemented clays or silts, sometimes with soluble minerals such as gypsum or halite. They may also be induced in humid areas by removal of the vegetative cover through overgrazing, or by air pollution from sulfide smelting. The term was first applied to an area in western South Dakota, which was called "mauvaises terres" by the early French fur traders.

GS land badlands barren land topography

## baffles

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

RT attenuators ∞ barriers blast deflectors conical flow damping deflectors

 $\infty \, \text{diffusers}$ 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 packages operation, and where necessary provide the balance required starting voltage and current amd. in balance ballasts for rapid-start lamps provide lowaerodynamic balance Bahamas voltage cathode heating. heat balance GS landforms . material balance RT ∞ ballast . islands . water balance capacitors .. 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 GS countermeasures . . turbulence models parachute descent ballistic missile decoys ... Baldwin-Lomax turbulence parafoils decovs model ballistic missile decoys 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. **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 balls bainitic steel military technology elastohydrodynamics radar tracking alloys GS 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 along solid objects or remain floating in midair. . underwater vehicles . . submarines Hissing noises emanate from such balls, and 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 absorption spectra seismocardiography MX missile atomic spectra ... Titan ICBM balloon flight electron transitions Titan 1 ICBM RT ∞ flight 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 sounding 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 balloons rocks GS 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 . . . Hilbert space expandable structures 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 RT harmonic analysis descent trajectories . . . meteorological balloons metric space .... jimsphere 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 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 DEF Wave filters having a single transmisballistics ballutes . hydroballistics sion band; neither of the cut-off frequencies GS brakes (for arresting motion) . 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

. ballutes

expandable structures

gas guns

howitzers

. tracking filters

RT adaptive filters

	bandstop filters		Pakistan		barium fluorides
	bandwidth electric filters	banking	flight	harium	ion clouds
∞	filters		turning flight		clouds (meteorology)
	FIR filters			ac-	. 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 geomagnetism
∞ bands		GS	seats		lines of force
SN	(USE OF A MORE SPECIFIC TERM IS		Barany chair		metal ions
	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)	RT	rotating environments tolerances (physiology)		rocket sounding
RT	absorption spectra		vertigo		thermites
	anchors (fasteners)			harium	isotopes
	bandwidth Bloch band	Barbado		GS	chemical elements
	broadband	GS	landforms	0.0	. alkaline earth metals
	clamps		. islands		barium isotopes
	clips		Barbados		. barium
	conduction bands		nations		barium isotopes . nuclides
	edge dislocations energy bands	DT	Barbados		isotopes
	fasteners	RT	Caribbean region		barium isotopes
	forbidden bands	barchan	s		metals
	frequencies		dunes		. alkaline earth metals
	Herzberg bands				barium isotopes . barium
	holders low frequencies		approximation barrier layers		barium isotopes
	narrowband	USL	electrical properties		
	photoluminescent bands		surface properties	barium	oxides
	plastic deformation			GS	barium compounds
	ring structures		n-Cooper-Schrieffer theory		. barium oxides chalcogenides
	Schumann-Runge bands sidebands	USE	BCS theory		. oxides
	spectral bands	Barents	Sea		metal oxides
	straps	GS	seas		alkaline earth oxides
	Swan bands	ОТ	. Barents Sea	5.7	barium oxides
	Vegard-Kaplan bands	RT	Arctic Ocean U.S.S.R.	RT	high temperature superconductors YBCO superconductors
handata	un filtoro		0.0.0.11.		1 DOO superconductors
	op filters Filters that block signals of a specific	barite		barium	sulfides
	cy or a band of frequencies.	GS	minerals	GS	barium compounds
ĠS	electromagnetic wave filters		. barite sulfur compounds		barium sulfides
	. electric filters		. sulfates		chalcogenides . sulfides
RT	bandstop filters adaptive filters		barite		inorganic sulfides
nı	bandpass filters				barium sulfides
	bandwidth	<b>barium</b> GS	chemical elements		sulfur compounds
	crystal filters	us	. barium		. sulfides
000	filters		barium isotopes		inorganic sulfides barium sulfides
	high pass filters low pass filters		metals		barium sumues
	microwave filters		. barium	barium	titanates
	optical filters		barium isotopes	GS	barium compounds
	tracking filters	barium	alloys		barium titanates
	waveguide filters		alloys		titanium compounds . titanates
bandwid	1th		. barium alloys		barium titanates
GS	bandwidth	harium	compounds	RT	dielectrics
	. broadband		barium compounds		ferroelectric materials
	. narrowband		. barium ferrates		
RT	. spectral line width		. barium fluorides		zirconates barium compounds
	bandpass filters bands		. barium oxides	do	. barium zirconates
	bandstop filters		. barium sulfides . barium titanates		zirconium compounds
	broadband amplifiers		. barium zirconates		. zirconates
	channel capacity	RT ∞	alkaline earth compounds		barium zirconates
	dynamic characteristics frequencies		chemical compounds	Barkhai	usen effect
	frequency ranges	000	metal compounds		∘ effects
	impedance	barium	ferrates		electromagnetic measurement
	laser windows		barium compounds		electromagnetism
	resonant frequencies		barium ferrates		oscillographs
	speech baseband compression tracking filters		iron compounds	barlass	
	transfer functions		. ferrates	<b>barley</b> GS	farm crops
	width		Darium remates	ac	. grains (food)
	windows (intervals)		fluorides		barley
han- !-	ng control	GS	barium compounds		plants (botany)
	ng control off-on control		. barium fluorides halogen compounds	RT	. barley agriculture
OOL	on on one of		. fluorine compounds	ΠI	blight
Banglad	lesh		fluorides		botany
UF	East Pakistan		barium fluorides		crop growth
GS	nations Rangladosh		. halides fluorides		crop vigor
RT	. <b>Bangladesh</b> Asia		barium fluorides		o crops o food
	India		. metal halides		irrigation

seeds proprioceptors

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)

## baroclinity

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 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

altimeters

hypsometers

manometers

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

GS injuries

barotrauma

decompression sickness

diving (underwater)

## barotropic flow

fluid flow GS

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

. 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 SN 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

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

resonant tunneling diodes

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) SN

Any materials limiting passage through itself of solids, liquids, semisolids, gases, or forms of energy such as ultraviolet light. Used

for barricades and obstacles. 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

91

## barriers (landforms)

GS

bars

GS

RT

UF

GS

coastal plains

lagoons littoral drift

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

trailing-edge wing, in a fluid flow.

GS pressure

base pressure

pressure

computer programming

data processing equipment

computer programs

∞ processing general character as gulfs. Used for bights and rocks B-A-W devices UF bights bathing USE bulk acoustic wave devices cleaning GS bays (topographic features) . washing bay ice Chesapeake Bay (US) . bathing GS ice Delaware Bay (ÚS) cooling bay ice Hudson Bay (Canada) hygiene freezing RT Monterey Bay (CA) waste water frost Saginaw Bay (MI) ice formation San Francisco Bay (CA) batholiths ice mapping San Pablo Bay (CA) GS rock intrusions ice reporting RT ∞ bays batholiths lake ice estuaries low temperature rocks gulfs . bedrock navigation inlets (topography) . batholiths oceanography granite sea ice **BBGKY** hierarchy igneous rocks slush GS classifications water . hierarchies . BBGKY hierarchy baths **Bayard-Alpert ionization gages** Bogoliubov theory (EXCLUDES BATHING) Ionization vacuum gages using a tube Boltzmann transport equation GS baths with an electrode structure designed to minimize equations of state salt baths x ray induced electron emission from the ion Fourier transformation RT dipping collector kinetic equations electroplating GS measuring instruments plasma physics heat transfer . pressure gages quenching (cooling) . . vacuum gages **BCAS** ∞ soaking . . . ionization gages USE **Beacon Collision Avoidance** submerging .... Bayard-Alpert ionization water immersion System gages vacuum apparatus BCC lattices bathymeters . vacuum gages USE body centered cubic lattices Instruments that measure the ocean . . ionization gages depths and check the topography of the ocean Bayard-Alpert ionization gages **BCH** codes floor. Used for bathymetry. hot cathodes Bose-Chaudhuri-Hocquenghem codes bathymetry RT binary codes GS measuring instruments Bayes theorem ∞ codes . bathymeters Bayesian statistics coding depth measurement GS theorems computer programming oceanography Bayes theorem decoders sounding decoding belief networks underwater research laboratories quality control digital techniques sampling error correcting devices information theory bathymetry USE bathymeters Bayesian belief networks parity ÚSE belief networks random errors bathythermographs Bayesian statistics BCS theory GS measuring instruments USE Bayes theorem Bardeen-Cooper-Schrieffer theory . temperature measuring instruments many body problem . bathythermographs superconductivity recording instruments DEF A term variously applied to many local ∞ theories bathythermographs water features in the lower Mississippi River thermodynamic coupling pressure gradients basin and in the Gulf Coast region of the U.S., temperature gradients especially in Louisiana. Its general meaning is a BE A creek of a secondary watercourse that is tribu-USE Beacon Explorer A tary to another body of water; especially through bats alluvial lowlands, coastal swamps or river del-GS animals RF R tas. The origin of the term is from the American . vertebrates USE **Explorer 22 satellite** French "boyau", "gut"; from the Choctaw "bayuk", "small stream". . . mammals . . . bats BE C landforms USE Explorer 27 satellite . inlets (topography) batteries bayous USE electric batteries BE-3 engine lakes GS engines marshlands . rocket engines battery chargers rivers . . retrorocket engines charge efficiency . BE-3 engine ∞ charging ∞ bavs Athena rocket vehicle (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) bays (structural units) electric batteries SN Ranger lunar landing vehicles pulse charging solid propellant rocket engines storage batteries bays (topographic features) beaches battery separators Stretches of unconsolidated material bays (structural units) that constitute gently sloping zones, typically USE separators with concave profiles, extending landward from aircraft compartments airframes the low-water line to the place where there is a Bauschinger effect definite change in material or physiographic ∞ bavs RT ∞ effects form. Used for advancing shorelines, backcompartments fatigue (materials) shores, and inshore zones. fuselages microstructure hulls (structures) advancing shorelines backshores shells (structural forms) inshore zones DEF A farruginous aluminium hydroxide bays (topographic features) bars (landforms) rock consisting of several minerals. It is the principle source for aluminum. Wide, curving open indentations, recoastal currents cesses, or arms of seas or lakes into the land or between two capes or headlands; larger than coastal plains

coves, and usually smaller than, but of the same

aluminum oxides

minerals

coasts

cusps (landforms)

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

RT

electron beams

millimeter waves

plasmas (physics)

plasma-particle interactions

. microbeams

. particle beams

. . atomic beams

. . electron beams

. . radio beacons

... omnidirectional radio ranges

.... self calibrating omnirange

. . radio direction finders

	relativistic electron beams	iron alloys	∞ equipment
	ion beams	lead alloys	
	neutral beams	metal powder	bediasites
	molecular beams	silver alloys	GS celestial bodies
	neutron beams	tin alloys	. meteorites
	neutrino beams	zinc alloys	stony meteorites
	pion beams		tektites
	proton beams	bearingless rotors	bediasites
	. pencil beams	GS airfoils	RT australites
	. phonon beams	. wings	TT additation
	. photon beams	rotary wings	ha dua ala
	. radar beams	lifting rotors	bedrock
RT	beam interactions	bearingless rotors	UF shields (geology)
	beam neutralization	rotating bodies	GS rocks
	beam splitters	. rotors	. bedrock
	beam steering	rotary wings	Baltic Shield (Europe)
	beam switching	lifting rotors	batholiths
	beamforming	bearingless rotors	RT Earth resources
		RT hinges	geology
•	∞ beams	rigid rotors	regolith
	coherent electromagnetic radiation	rigia rotors	∞ shelves
	coherent radiation	hooringo	soils
	corpuscular radiation	bearings	strata
	electromagnetic radiation	GS bearings	stratification
	extreme ultraviolet radiation	antifriction bearings	stratigraphy
	infrared radiation	ball bearings	tunneling (excavation)
	ionizing radiation	roller bearings	tarmoning (oxoavation)
	irradiation	needle bearings	
	light (visible radiation)	. foil bearings	beds
	longitudinal waves	. gas bearings	RT beds (process engineering)
	monochromatic radiation	. journal bearings	couches
	multibeam antennas	. liquid bearings	
	plane waves	magnetic bearings	beds (geology)
	∞ radiation	thrust bearings	UF lake beds
	∞ rays	RT ∞ bearing	GS geology
	submillimeter waves	bearing alloys	. beds (geology)
	ultraviolet radiation	boundary lubrication	salt beds
	diffaviolet fadiation	bushings	landforms
hoome	(supports)	gimbals	. beds (geology)
UF	structural beams	idlers	salt beds
		internal combustion engines	
GS	structural members	lubrication	RT ocean bottom
	beams (supports)		strata
	box beams	packings (seals)	stratigraphy
	cantilever beams	pivots	
	curved beams	shafts (machine elements)	beds (process engineering)
	Euler-Bernoulli beams	supports	RT beds
	I beams	suspension systems (vehicles)	chemical reactors
	rectangular beams	swivels	extraction
	Timoshenko beams	wheels	filtration
RT «	∞ beams		fluidized bed processors
	clamped structures	bears	ion exchanging
	columns (supports)	GS animals	percolation
	girders	. vertebrates	porocialion
	∞ headers	mammals	Danah 00 simust
	plastic bodies	bears	Beech 99 aircraft
	T shape		DEF Light, low-wing aircraft manufactured
	trusses	beat	by Beechcraft.
		USE synchronism	GS Beechcraft aircraft
beamsi	naning		Beech 99 aircraft
	beamforming	beat frequencies	Beechcraft 18 aircraft
OOL	beamorning	DEF The frequencies obtained when two	C-33 aircraft
boorin	~	simple harmonic quantities of different frequen-	C-35 aircraft
∞ bearing	5	cies f1 and f2 are superimposed. The beat	light aircraft
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	frequency equals f1-f2.	. Beech 99 aircraft
	LISTED BELOW)	GS frequencies	Beechcraft 18 aircraft
RT	bearing (direction)	beat frequencies	C-33 aircraft
	bearings	RT group velocity	C-35 aircraft
	internal combustion engines	intermediate frequency amplifiers	RT ∞ aircraft
	· ·	Moire effects	∞ low wing aircraft
bearing	g (direction)	resonant frequencies	3
	alignment	standing waves	Beech aircraft
	azimuth	superheterodyne receivers	USE Beechcraft aircraft
,	∞ bearing	superneterouyrie receivers	USE Deechcraft aircraft
	∞ bearing ∞ direction	Beaufort Sea (North America)	
`			Beech C-33 aircraft
	direction finding	GS seas	USE C-33 aircraft
	exposure field of view	. Beaufort Sea (North America)	
		RT Alaska	Beech S-35 aircraft
	instrument orientation	Arctic Ocean	USE <b>C-35 aircraft</b>
	∞ orientation	Canada	COL COUNTRIES
	position (location)	had and	Burghan field 1 . ft
	sound localization	bed rest	Beechcraft 18 aircraft
	∞ space orientation	GS rest	GS Beechcraft aircraft
		. bed rest	. Beech 99 aircraft
	g alloys	RT calcium metabolism	Beechcraft 18 aircraft
GS	alloys	clinical medicine	general aviation aircraft
	. bearing alloys	head down tilt	. Beechcraft 18 aircraft
RT	aluminum alloys	head up tilt	light aircraft
	babbitt metal	orthostatic tolerance	. Beech 99 aircraft
	bearings		Beechcraft 18 aircraft
	cadmium alloys	bedding equipment	monoplanes
	copper alloys	RT ∞ blankets	. Beechcraft 18 aircraft

RT ∝	aircraft		probability theory		. free convection
Beechc	raft aircraft	Belize			Rayleigh-Benard convection Benard cells
UF	Beech aircraft	UF	British Honduras		fluid flow
GS	Beechcraft aircraft	GS	nations		. convective flow
	. Beech 99 aircraft		. Belize		. Rayleigh-Benard convection
	Beechcraft 18 aircraft	RT	Caribbean region		Benard cells
	C-33 aircraft		Caribbean Sea	RT	convection currents
	C-35 aircraft		Central America		convection-diffusion equation
RT ∝	aircraft				Rayleigh number
Door lo			4A helicopter		solar convection (astronomy)
Beer lav RT	absorptivity	DEF	, ,		solar granulation
n i	Bouguer law	,	/ Bell Helicopter.  Bell aircraft		stellar convection
	electromagnetic absorption	do	. Bell 214A helicopter		
	molecular absorption		V/STOL aircraft	benches	
	•		. rotary wing aircraft	USE	seats
bees			helicopters	band to	ata.
GS	animals		Bell 214A helicopter	bend te	Ductility tests in which specimens are
	. invertebrates	RT •	∘ aircraft		ough an arc of known radius and angle
	arthropods		vertical takeoff aircraft	RT	bending
	insects	Dall air			crack propagation
RT	swarming	<b>Bell air</b> GS	Bell aircraft		destructive tests
	owarring	do	. AH-1S helicopter		flexural strength
beetles			. AH-1W helicopter		fracture mechanics
GS	animals		. AH-63 helicopter		fracture strength
	. invertebrates		. Bell 214A helicopter		materials tests
	arthropods		. OH-4 helicopter	∞	tests
	insects		. OH-13 helicopter		
	Coleoptera		. UH-1 helicopter	bending	
	beetles		. V-22 aircraft	GS	bending
ОΤ	tribolia		. X-1 aircraft	DT	. elastic bending
RT	infestation		. X-2 aircraft	RT	bend tests
behavio	r		. X-5 aircraft	~	bows buckling
DEF	The way in which an organism, organ,		. X-14 aircraft		camber
body, or	substance acts in an environment or		. X-22 aircraft		deflection
respond	s to excitation, as the behavior of steel		. XV-3 aircraft . XV-15 aircraft		deformation
under st	ress, or the behavior of an animal in a	RT o	∘ aircraft		displacement
test.		111 9	· anoran		distortion
GS	behavior	Bellmaı	n theory		elastic deformation
	. deconditioning	RT	dynamic programming		Euler-Bernoulli beams
ОΤ	. human behavior		optimization		fatigue tests
RT	conditioning (learning) diagnosis	0	o theories		fiber strength
	education				flexibility
	extroversion	bellows			flexing flutter
	learning	SN	(EXPANDABLE JOINTSFOR DEVICES TO MOVE GASES, USE BLOWERS)		folding
	migration	DEF	Mechanical structures with walls like		heaving
	Skinner boxes	those of	f an accordion.		kinking
		GS	expandable structures		modulus of elasticity
Belarus			. bellows		plastic deformation
	ed August 1993)	RT	expulsion bladders		stiffness
GS	nations		joints (junctions)		structural failure
ОΤ	Belarus		pumps		structural strain
нı	Europe	bells			temperature inversions
Belfast a	aircraft	RT	auditory signals		twisting
	SC-5 aircraft	111	pressure vessels		warpage
002			psychoacoustics		
Belgian	Congo		o signals		ı diagrams
USE	Democratic Republic of Congo		sound generators	GS	diagrams
B . I			warning	DT	. bending diagrams deflection
_	space program		warning systems	RT	deflection
	ed August 1990) programs			bandina	ı fatique
us	. space programs	Beltram			, ,
	European space programs	GS	fluid flow	dS	fatigue (materials) . bending fatique
	Belgian space program	БТ	. Beltrami flow	RT	flexural strength
RT	Belgium	RT	incompressible flow		metal fatigue
	g		steady flow		S-N diagrams
Belgiun	1		vorticity		2 11 2.mg/2
GS	nations	∞ belts		bending	moments
	Belgium	SN	(USE OF A MORE SPECIFIC TERM IS	-	moments
RT	Belgian space program		RECOMMENDEDCONSULT THE TERMS		. bending moments
	Europe	RT	LISTED BELOW)	RT	loading moments
belief n	etworks	пі	asteroid belts cables (ropes)		NASTRAN
	ed December 1994)		fasteners		static loads
	Artificial Intelligence technique for		girdles		stress analysis
	ng probabalistic information.		proton belts		structural design criteria
ÚF	Bayesian belief networks		pulleys		torque
GS	networks		radiation belts	,	
	. belief networks		regions		strength
RT	artificial intelligence		Rouse belts	USE	flexural strength
	Bayes theorem		seat belts	_	
	computer techniques		terrestrial dust belt	bending	
	expert systems	Dan	aalla	RT	stress analysis
	knowledge representation	Benard			stress intensity factors
	neural nets	GS	convection	000	theories

	Trefftz method		fatty acids		alexandrite
			benzilic acid		beryllium compounds
	g vibration		organic compounds		beryl
GS	vibration		. carboxylic acids		alexandrite
	structural vibration		fatty acids		minerals
РΤ	bending vibration		benzilic acid		. beryl
RT	breathing vibration Euler-Bernoulli beams	benzoio	a acid		alexandrite
	flutter	GS	acids		silicon compounds
	missile vibration	ao	. carboxylic acids		. silicates beryl
	panel flutter		fatty acids		alexandrite
	random vibration		benzoic acid	RT	beryllium
	self induced vibration		organic compounds		borymani
			. carboxylic acids	berylliu	ım
bends (	(physiology)		. fatty acids	ĞS	chemical elements
USE	decompression sickness		benzoic acid		. beryllium
					beryllium isotopes
benefic		benzog			beryllium 7
RT⋄	∞ absorption	USE	quinones		beryllium 9
	adsorption	Rerenio	ce rocket vehicle		beryllium 10
	aeration clean fuels	GS	rocket vehicles		metals
	comminution	ao	. multistage rocket vehicles		. beryllium
	concentrating		. Berenice rocket vehicle		beryllium isotopes
~	oconditioning	RT	hypersonic reentry		beryllium 7 beryllium 9
	enrichment		solid propellant rocket engines		beryllium 10
	exploitation			RT	beryl
	extraction		an operator		moderators
	filtration	GS	operators (mathematics)		
	flotation		. Bergman operator	berylliu	ım 7
	foaming	Poring	Son	ĞS	chemical elements
	isotopic enrichment	<b>Bering</b> GS	seas		. beryllium
	leaching	GS	. Bering Sea		beryllium isotopes
0	∘ metallurgy	RT	Pacific Ocean		beryllium 7
	minerals		Tuomo Godan		. nuclides
	purification	berkeli	um		isotopes
	refining	GS	chemical elements		beryllium isotopes
•	∘ separation settling		. actinide series		beryllium 7 radioactive isotopes
	size separation		transuranium elements		beryllium 7
	sublimation		berkelium		metals
	upgrading		. nuclides		. beryllium
	washing		isotopes radioactive isotopes		beryllium isotopes
	wastes		transuranium elements		beryllium 7
Dania			berkelium		_
Benin	D-h		metals	berylliu	
UF GS	Dahomey nations		. actinide series	GS	chemical elements
ao	. Benin		transuranium elements		. beryllium beryllium isotopes
RT	Africa		berkelium		beryllium 9
		Bermu	do.		. nuclides
bentoni	ite	GS	landforms		isotopes
DEF	A soft, plastic, porous , light colored	ao	. islands		beryllium isotopes
	mposed essentially of clay minerals of		Bermuda		beryllium 9
the mor	ntmorillonite group plus colloidal silica,	RT	Atlantic Ocean		radioactive isotopes
and pro	oduced by divitrification and chemical				beryllium 9
	on of a glassy igneous material, usually a	Bernoul	lli equation		metals
tun or a	volcanic ash. montmorillonite	USE	Bernoulli theorem		. beryllium
ΠI	soils	D	III: Ab a a va va		beryllium isotopes
	water treatment		Ili theorem		beryllium 9
	water trodunent		In aeronautics, a law or theorem stat- in a flow of incompressible fluid the sum	hamilli.	ım 10
benzen	e				
GS			tatic pressure and the dynamic pressure	<b>berylliເ</b> GS	chemical elements
	organic compounds		tatic pressure and the dynamic pressure		chemical elements
	organic compounds . cyclic compounds	along a	streamline is constant if gravity and		
	. cyclic compounds cyclic hydrocarbons	along a frictiona			chemical elements . beryllium
	. cyclic compounds cyclic hydrocarbons benzene	along a frictiona Daniel	streamline is constant if gravity and l effects are disregarded. It is named for		chemical elements . beryllium beryllium isotopes
	cyclic compounds cyclic hydrocarbons hydrocarbons hydrocarbons	along a frictiona Daniel from 17	streamline is constant if gravity and I effects are disregarded. It is named for Bernoulli, a Swiss scientist who lived		chemical elements . beryllium . beryllium isotopes beryllium 10 . nuclides isotopes
	cyclic compounds cyclic hydrocarbons hydrocarbons cyclic hydrocarbons cyclic hydrocarbons	along a frictiona Daniel from 17 UF	streamline is constant if gravity and I effects are disregarded. It is named for Bernoulli, a Swiss scientist who lived 00 to 1782. Used for Bernoulli equation.  Bernoulli equation theorems		chemical elements . beryllium . beryllium isotopes beryllium 10 . nuclides isotopes beryllium isotopes
DT	cyclic compounds cyclic hydrocarbons hydrocarbons yydrocarbons cyclic hydrocarbons benzene	along a frictiona Daniel from 17 UF GS	I streamline is constant if gravity and I effects are disregarded. It is named for Bernoulli, a Swiss scientist who lived 00 to 1782. Used for Bernoulli equation.  Bernoulli equation theorems  Bernoulli theorem		chemical elements . beryllium . beryllium isotopes beryllium 10 . nuclides isotopes beryllium isotopes beryllium 10
RT	cyclic compounds cyclic hydrocarbons hydrocarbons cyclic hydrocarbons cyclic hydrocarbons hydrocarbons hydrocarbons	along a frictiona Daniel from 17 UF GS	I streamline is constant if gravity and I effects are disregarded. It is named for Bernoulli, a Swiss scientist who lived 00 to 1782. Used for Bernoulli equation.  Bernoulli equation theorems  Bernoulli theorem conservation equations		chemical elements . beryllium . beryllium isotopes beryllium 10 . nuclides isotopes beryllium isotopes beryllium 10 radioactive isotopes
RT	cyclic compounds cyclic hydrocarbons benzene hydrocarbons cyclic hydrocarbons cyclic hydrocarbons benzene chlorobenzenes cyclohexane	along a frictiona Daniel from 17 UF GS	I streamline is constant if gravity and I effects are disregarded. It is named for Bernoulli, a Swiss scientist who lived 00 to 1782. Used for Bernoulli equation.  Bernoulli equation theorems  Bernoulli theorem conservation equations  equations		chemical elements . beryllium . beryllium isotopes beryllium 10 .nuclides . isotopes beryllium 10 .radioactive isotopes beryllium 10 .radioactive isotopes beryllium 10
RT	cyclic compounds cyclic hydrocarbons benzene hydrocarbons cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal	along a frictiona Daniel from 17 UF GS	a streamline is constant if gravity and I effects are disregarded. It is named for Bernoulli, a Swiss scientist who lived 00 to 1782. Used for Bernoulli equation.  Bernoulli equation theorems  Bernoulli theorem conservation equations equations flow equations		chemical elements . beryllium . beryllium isotopes . beryllium 10 . nuclides . isotopes . beryllium isotopes . beryllium 10 . radioactive isotopes . beryllium 10 metals
RT	cyclic compounds cyclic hydrocarbons benzene hydrocarbons cyclic hydrocarbons cyclic hydrocarbons benzene chlorobenzenes cyclohexane	along a frictiona Daniel from 17 UF GS	I streamline is constant if gravity and I effects are disregarded. It is named for Bernoulli, a Swiss scientist who lived 00 to 1782. Used for Bernoulli equation.  Bernoulli equation theorems  Bernoulli theorem conservation equations  equations flow equations fluid flow		chemical elements . beryllium . beryllium isotopes beryllium 10 . nuclides isotopes beryllium isotopes beryllium 10 radioactive isotopes beryllium 10 metals . beryllium
	cyclic compounds cyclic hydrocarbons benzene hydrocarbons cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal	along a frictiona Daniel from 17 UF GS	I streamline is constant if gravity and I effects are disregarded. It is named for Bernoulli, a Swiss scientist who lived 00 to 1782. Used for Bernoulli equation.  Bernoulli equation theorems  Bernoulli theorem conservation equations equations flow equations fluid flow isentropic processes		chemical elements . beryllium . beryllium isotopes . beryllium 10 . nuclides . isotopes . beryllium isotopes . beryllium 10 . radioactive isotopes . beryllium 10 metals
	cyclic compounds cyclic hydrocarbons benzene hydrocarbons cyclic hydrocarbons cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes  e poisoning diseases	along a frictiona Daniel from 17 UF GS	I streamline is constant if gravity and I effects are disregarded. It is named for Bernoulli, a Swiss scientist who lived 00 to 1782. Used for Bernoulli equation.  Bernoulli equation theorem conservation equations  equations flow equations floid flow isentropic processes linearization  Magnus effect	ĞS	chemical elements . beryllium . beryllium isotopes . beryllium 10 . nuclides . isotopes . beryllium sotopes . beryllium 10 . radioactive isotopes . beryllium 10 metals . beryllium . beryllium isotopes beryllium
benzen	cyclic compounds cyclic hydrocarbons benzene hydrocarbons cyclic hydrocarbons cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes  e poisoning diseases toxic diseases	along a frictiona Daniel from 17 UF GS	I streamline is constant if gravity and I effects are disregarded. It is named for Bernoulli, a Swiss scientist who lived 00 to 1782. Used for Bernoulli equation.  Bernoulli equation theorems  Bernoulli theorem conservation equations equations flow equations flow equations flow isentropic processes linearization	ĞS	chemical elements . beryllium . beryllium isotopes . beryllium 10 . nuclides . isotopes . beryllium isotopes . beryllium isotopes . beryllium 10 . radioactive isotopes . beryllium 10 metals . beryllium . beryllium . beryllium 10 matals . beryllium 10 metals . beryllium 10 metals . beryllium 10 metals
benzen	cyclic compounds cyclic hydrocarbons cyclic hydrocarbons hydrocarbons cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes  e poisoning diseases toxic diseases benzene poisoning	along a frictiona Daniel from 17 UF GS RT	a streamline is constant if gravity and I effects are disregarded. It is named for Bernoulli, a Swiss scientist who lived 00 to 1782. Used for Bernoulli equation. Bernoulli equation theorems  Bernoulli theorem conservation equations equations flow equations fluid flow isentropic processes linearization Magnus effect panel method (fluid dynamics)	ĞS	chemical elements . beryllium . beryllium isotopes beryllium 10 . nuclides isotopes beryllium sotopes beryllium 10 radioactive isotopes beryllium 10 metals . beryllium . beryllium . beryllium . beryllium 10  malloys alloys
benzen	cyclic compounds cyclic hydrocarbons hydrocarbons hydrocarbons cyclic hydrocarbons hydrocarbons hydrocarbons henzene chlorobenzenes cyclohexane solvent refined coal thiophenes  e poisoning diseases toxic diseases henzene poisoning toxicity	along a frictiona Daniel from 17 UF GS RT	a streamline is constant if gravity and a leffects are disregarded. It is named for Bernoulli, a Swiss scientist who lived 00 to 1782. Used for Bernoulli equation.  Bernoulli equation theorem  conservation equations  flow equations flow equations fluid flow issentropic processes linearization Magnus effect panel method (fluid dynamics)	ĞS	chemical elements . beryllium . beryllium isotopes . beryllium 10 . nuclides . isotopes . beryllium 10 . radioactive isotopes . beryllium 10 metals beryllium . logyllium . beryllium
<b>benzen</b> GS	cyclic compounds cyclic hydrocarbons hydrocarbons hydrocarbons benzene hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes e poisoning diseases toxic diseases benzene poisoning toxicity benzene poisoning	along a frictiona Daniel from 17 UF GS RT	a streamline is constant if gravity and a leffects are disregarded. It is named for Bernoulli, a Swiss scientist who lived 00 to 1782. Used for Bernoulli equation.  Bernoulli equation theorem conservation equations equations flow equations flow equations flow equations fluid flow isentropic processes linearization Magnus effect panel method (fluid dynamics) ein energy principle structural analysis	ĞS	chemical elements . beryllium . beryllium isotopes beryllium 10 . nuclides isotopes beryllium sotopes beryllium 10 radioactive isotopes beryllium 10 metals . beryllium . beryllium . beryllium . beryllium 10  malloys alloys
benzen	cyclic compounds cyclic hydrocarbons benzene hydrocarbons cyclic hydrocarbons cyclic hydrocarbons cyclohexane chlorobenzenes cyclohexane solvent refined coal thiophenes  e poisoning diseases toxic diseases benzene poisoning toxicity benzene poisoning hydrocarbon poisoning	along a frictiona Daniel from 17 UF GS RT	a streamline is constant if gravity and a leffects are disregarded. It is named for Bernoulli, a Swiss scientist who lived 00 to 1782. Used for Bernoulli equation.  Bernoulli equation theorems Bernoulli theorem conservation equations equations flow equations fluid flow isentropic processes linearization Magnus effect panel method (fluid dynamics)  bein energy principle structural analysis energy methods	ĞS <b>berylli</b> u GS	chemical elements . beryllium . beryllium isotopes . beryllium 10 . nuclides . isotopes . beryllium isotopes . beryllium isotopes . beryllium 10 . radioactive isotopes . beryllium 10 metals . beryllium . beryllium . beryllium isotopes . beryllium . beryllium isotopes
<b>benzen</b> GS	cyclic compounds cyclic hydrocarbons benzene hydrocarbons cyclic hydrocarbons cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes  e poisoning diseases toxic diseases benzene poisoning toxicity benzene poisoning hydrocarbon poisoning industrial safety	along a frictiona Daniel from 17 UF GS RT	I streamline is constant if gravity and I effects are disregarded. It is named for Bernoulli, a Swiss scientist who lived 00 to 1782. Used for Bernoulli equation. Bernoulli equation theorems  Bernoulli theorem conservation equations equations flow equations fluid flow isentropic processes linearization Magnus effect panel method (fluid dynamics)  Pein energy principle structural analysis energy methods  Bernstein energy principle	ĞS <b>berylli</b> u GS	chemical elements . beryllium . beryllium isotopes . beryllium 10 . nuclides . isotopes . beryllium isotopes . beryllium isotopes . beryllium 10 . radioactive isotopes . beryllium 10 metals . beryllium . beryllium . beryllium . beryllium 10  malloys . light alloys . beryllium alloys  um borohydrides
<b>benzen</b> GS	cyclic compounds cyclic hydrocarbons benzene hydrocarbons cyclic hydrocarbons cyclic hydrocarbons cyclohexane chlorobenzenes cyclohexane solvent refined coal thiophenes  e poisoning diseases toxic diseases benzene poisoning toxicity benzene poisoning hydrocarbon poisoning	along a frictiona Daniel from 17 UF GS RT	a streamline is constant if gravity and I effects are disregarded. It is named for Bernoulli, a Swiss scientist who lived 00 to 1782. Used for Bernoulli equation. Bernoulli equation theorems  Bernoulli theorem conservation equations equations flow equations fluid flow isentropic processes linearization Magnus effect panel method (fluid dynamics) ein energy principle structural analysis energy methods Bernstein energy principle energy	ģs berylliu gs berylliu	chemical elements . beryllium . beryllium isotopes . beryllium 10 . nuclides . isotopes . beryllium isotopes . beryllium isotopes . beryllium 10 . radioactive isotopes . beryllium 10 metals . beryllium . beryllium . beryllium isotopes . beryllium . beryllium isotopes
<b>benzen</b> GS	cyclic compounds cyclic hydrocarbons benzene hydrocarbons cyclic hydrocarbons cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes  e poisoning diseases toxic diseases benzene poisoning toxicity benzene poisoning industrial safety poisoning	along a frictiona Daniel from 17 UF GS RT	I streamline is constant if gravity and I effects are disregarded. It is named for Bernoulli, a Swiss scientist who lived 00 to 1782. Used for Bernoulli equation. Bernoulli equation theorems  Bernoulli theorem conservation equations equations flow equations fluid flow isentropic processes linearization Magnus effect panel method (fluid dynamics)  Pein energy principle structural analysis energy methods  Bernstein energy principle	ģs berylliu gs berylliu	chemical elements . beryllium . beryllium isotopes . beryllium 10 . nuclides . isotopes . beryllium isotopes . beryllium 10 . radioactive isotopes . beryllium 10 metals . beryllium . beryllium . beryllium . beryllium 10  malloys . ight alloys . light alloys . beryllium alloys  malloys beryllium alloys  malloys beryllium alloys beryllium alloys beryllium alloys beryllium compounds
benzen GS RT	cyclic compounds cyclic hydrocarbons benzene hydrocarbons cyclic hydrocarbons cyclic hydrocarbons cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes  e poisoning diseases toxic diseases benzene poisoning toxicity benzene poisoning hydrocarbon poisoning industrial safety poisoning toxicity and safety hazard toxicology	along a frictiona Daniel from 17 UF GS RT	a streamline is constant if gravity and I effects are disregarded. It is named for Bernoulli, a Swiss scientist who lived 00 to 1782. Used for Bernoulli equation. Bernoulli equation theorems  Bernoulli theorem conservation equations equations flow equations fluid flow isentropic processes linearization Magnus effect panel method (fluid dynamics)  Pin energy principle structural analysis energy methods  Bernstein energy principle energy magnetic fields	ģs berylliu gs berylliu	chemical elements . beryllium . beryllium isotopes . beryllium 10 . nuclides . isotopes . beryllium isotopes . beryllium isotopes . beryllium 10 . radioactive isotopes . beryllium 10 metals . beryllium . beryllium . beryllium . beryllium sotopes . beryllium . beryllium isotopes . b
benzen GS RT	cyclic compounds cyclic hydrocarbons benzene hydrocarbons cyclic hydrocarbons cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes  e poisoning diseases benzene poisoning toxicity benzene poisoning industrial safety poisoning toxicity and safety hazard toxicology	along a frictional Daniel from 17 UF GS RT GS RT GS Bernste GS RT GS UF UF	a streamline is constant if gravity and a leffects are disregarded. It is named for Bernoulli, a Swiss scientist who lived 00 to 1782. Used for Bernoulli equation.  Bernoulli equation theorem conservation equations  equations flow equations fluid flow issentropic processes linearization Magnus effect panel method (fluid dynamics)  ein energy principle structural analysis energy methods  Bernstein energy principle  energy  magnetic fields  emerald	ģs berylliu gs berylliu	chemical elements . beryllium . beryllium isotopes . beryllium 10 . nuclides . isotopes . beryllium isotopes . beryllium 10 . radioactive isotopes . beryllium 10 metals . beryllium . beryllium . beryllium . beryllium isotopes . beryllium 10  malloys . light alloys . beryllium alloys . beryllium alloys . beryllium compounds . beryllium borohydrides . beryllium borohydrides . beryllium borohydrides
benzen GS RT	cyclic compounds cyclic hydrocarbons benzene hydrocarbons cyclic hydrocarbons cyclic hydrocarbons cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes  e poisoning diseases toxic diseases benzene poisoning toxicity benzene poisoning hydrocarbon poisoning industrial safety poisoning toxicity and safety hazard toxicology	along a frictiona Daniel from 17 UF GS RT	a streamline is constant if gravity and I effects are disregarded. It is named for Bernoulli, a Swiss scientist who lived 00 to 1782. Used for Bernoulli equation. Bernoulli equation theorems  Bernoulli theorem conservation equations equations flow equations fluid flow isentropic processes linearization Magnus effect panel method (fluid dynamics)  Pin energy principle structural analysis energy methods  Bernstein energy principle energy magnetic fields	ģs berylliu gs berylliu	chemical elements . beryllium . beryllium isotopes . beryllium 10 . nuclides . isotopes . beryllium isotopes . beryllium isotopes . beryllium 10 . radioactive isotopes . beryllium 10 metals . beryllium . beryllium . beryllium . beryllium sotopes . beryllium . beryllium isotopes . b

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

nuclear radiation

beta particles

. charged particles

particles

**BGK** model

GS

(added September 1993)

models

Bhatnagar-Grass-Krook model

. mathematical models

. beryllium nitrides nitrogen compounds

. . metal nitrides

. nitrides

	BGK model		veins		data processing
RT	Boltzmann transport equation				decimal to binary converters
	computational fluid dynamics		ion (mathematics)		digital data
	kinetic equations	USE	branching (mathematics)		
	kinetic theory			binary	digits
	Knudsen flow		ig cosmology	GS	symbols
	molecular collisions	GS	cosmology		. alphanumeric characters
	molecular flow	DT	. big bang cosmology		digits
	particle collisions	RT	astronomical models		binary digits
	rarefied gas dynamics		background radiation	RT	bit error rate
	0 1/ 1		cosmic rays		bits
	gar-Grass-Krook model		galactic evolution		digital electronics
USE	BGK model		gamma ray bursts		digital systems
Bhutan			grand unified theory gravitational constant		0.11.
	nations		9	binary	
do	. Bhutan		large-scale structure of the universe relativity	GS	,
RT	Himalayas		relic radiation		. binary mixtures
111	India		universe		binary fluids
	Sikkim		diliverse		mixtures
	Tibet	Bighor	n Mountains (MT-WY)		. binary mixtures binary fluids
	Tibet		landforms	DT.	∞ fluids
bias		0.0	. mountains	יוח	
DEF	A constant or systematic error as op-		Bighorn Mountains (MT-WY)		gas mixtures
	a random error. It manifests itself as a	RT	Montana		kinetic theory Lennard-Jones gas
	nt positive or negative deviation of the		Wyoming		transport properties
	average from the accepted reference		,9		transport properties
value.	g	bights		hinary	integration
GS	bias	ŬSE	bays (topographic features)		analysis (mathematics)
	. response bias		, , , , ,	ao	. real variables
RT	compensators	biharm	onic equations		measure and integration
	displacement	GS	analysis (mathematics)		binary integration
	electric potential		. real variables	RT	
	errors		differential equations	111	digital integrators
	instrument errors		partial differential equations		digital integrators
	open circuit voltage		biharmonic equations	hinary	mixtures
	tube grids	RT	elastic properties		binary systems (materials)
	3	c	∘ equations	ao	. binary mixtures
bibliogr	aphies				binary fluids
	documents	billets			eutectics
	. bibliographies	RT	casting		eutectic alloys
RT	abstracts		castings		mixtures
	biography		forging		. binary mixtures
	documentation		ingots		binary fluids
	general overviews		metal plates		eutectics
	handbooks		metal strips		eutectic alloys
	indexes (documentation)		rods	RT	azeotropes
	information dissemination		slabs		gas mixtures
	information retrieval		wire		liquid-gas mixtures
	libraries				nquia gao mintaroo
	literature	bimetal		binary	phase shift keying
~	reference systems	RT	alloying		led February 1992)
	space glossaries		alloys	ÙF	biphase shift keying
	summaries		composite materials		BPSK
			functionally gradient materials	GS	coding
bicarboi	nates		metal bonding		. signal encoding
USE	carbonates		metals		phase modulation
		himetri	c theories		phase shift keying
bicrysta		DEF			binary phase shift keying
GS	crystals	RT	Theories of gravitation. gravitation theory		keying
	. bicrystals	пі	metric space		phase shift keying
RT	polycrystals		Schwarzschild metric		. binary phase shift keying
	single crystals		• theories		modulation
		C			. phase modulation
∞ bicycle		binary	allovs		phase shift keying
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		alloys		binary phase shift keying
	LISTED BELOW)		. binary alloys	RT	quadrature phase shift keying
RT	landing gear		binary systems (materials)		satellite transmission
	surface vehicles		. binary alloys		
		RT	alloying	binary	stars
bidirect	ional reflectance		antiphase boundaries	DEF	Systems of two stars revolving about a
GS	electromagnetic properties		cluster variation method	barycer	nter.
	. optical properties			GS	celestial bodies
	reflectance	binary	codes		. stars
	bidirectional reflectance	DEF	Codes composed of a combination of		double stars
RT	light scattering		each of which can assume one of two		binary stars
	reflection	possible	e states. Each entity must be identifiable		cataclysmic variables
	spectral reflectance		or space.		companion stars
	surface properties	RT	BCH codes		Nemesis (star)
			bit error rate		eclipsing binary stars
	tion (biology)	c	∘ codes		dwarf novae
	The separation or branching into two		concatenated codes		Lambda Tauri stars
	eas, aspects or connected segments, of		digital systems		Zeta Aurigae star
	cal systems or functions.		trellis coding		Sigma Orionis
RT	anatomy				symbiotic stars
	arteries	binary			x ray binaries
	arterioles	RT	analog data	RT	accretion disks
00	biology		bit error rate		gravitational binding energy
	blood vessels		bubble memory devices		limb darkening

∞ data

branching (physics)

star clusters

## binary systems (materials)

stellar parallax stellar systems superhumps (astronomy) triple stars two body problem variable stars

binary summators USE adding circuits

binary systems (digital) USE digital systems

#### binary systems (materials)

two phase systems

GS binary systems (materials)

. binary alloys . binary mixtures . . binary fluids

. . eutectics

. . eutectic alloys

RT alloys ∞ materials phase diagrams phase separation (materials) solidus

∞ systems ternary systems

### binary to decimal converters

GS data converters

. binary to decimal converters

RT computer components

∞ converters data processing

decimal to binary converters

#### binaural hearing

GS hearing

. binaural hearing

perception

binaural hearing auditory perception sound localization Weber test

binders (adhesives) USE adhesives

#### binders (materials)

## GS binders (materials)

. propellant binders . . solid rocket binders

additives adhesives cements ∞ materials molding materials oxetane polymers

sizing materials solid lubricants

## binding

RT binding energy bonding collating folding ∞ joining printing sealing sewing

## binding energy

(added May 1995)

GS binding energy
. gravitational binding energy

. nuclear binding energy activation energy

active sites (chemistry) binding chemical bonds electrostatic bonding

∞ energy lattice energy quantum wells vacancies (crystal defects)

binding sites

(added August 2004)

USE active sites (chemistry)

## binocular vision

GS vision

binocular vision haploscopes motion perception

space perception stereoscopic vision

#### binoculars

GS optical equipment binoculars eyepieces microscopes periscopes telescopes

#### binomial coefficients

GS analysis (mathematics) combinatorial analysis . binomial coefficients coefficients binomial coefficients

factorials

### binomial theorem

GS algebra

binomial theorem

theorems

binomial theorem

binomials probability density functions probability theory statistical analysis statistical distributions

### binomials

algebra GS . polynomials . binomials binomial theorem

# bioacoustics

GS acoustics . bioacoustics acoustic attenuation auditory defects auditory sensation areas bioengineering ∞ biology psychoacoustics ∞ science

sound intensity

bioassay
DEF A standardized procedure for the determination of the effects of an environmental variable or substance on living organisms. Used for biological analysis.

UF biological analysis RT animal models biochemistry biological diversity biological effects ∞ biology biomarkers histochemical analysis in vitro methods and tests in vivo methods and tests

## **Bioastronautical Orbital Space System**

programs

. NASA programs

. . NASA space programs

... Bioastronautical Orbital Space System

. space programs

NASA space programs

... Bioastronautical Orbital Space System

RT ∞ systems

#### bioastronautics

The study of biological, behavioral, and medical problems pertaining to astronautics. This includes systems functioning in the environments expected to be found in space, vehicles designed to travel in space, and the conditions on terrestrial bodies other than the

aerospace environments aerospace medicine animal models ∞ astronautics bioengineering biology Biosatellite 1 Biosatellite 2 Biosatellite 3 closed ecological systems Columbus space station

Earth atmosphere exobiology head down tilt head up tilt hindlimb suspension lunar environment planetary environments ∞ science space adaptation syndrome

space exploration space flight space stations spacecraft environments tilt-table test

## bioavailability

(added August 2001)

The extent to which a drug, nutrient, toxin, or other substance enters the circulatory system or becomes available at a site of physiological activity.

biological availability physiologic availability availability ŨF GS

. bioavailability RT adsorption

exposure intravenous procedures material absorption pharmacology physiochemistry sorption toxicity toxicology

## biochemical fuel cells

GS electric generators

. direct power generators

. . fuel cells

. . biochemical fuel cells

electrochemical cells

. fuel cells

. biochemical fuel cells

RT ∞ biology 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 conditions. Used for BOD.

BOD RT algae ∞ biology ecology oximetry oxygen consumption plants (botany) pollution control water pollution water treatment

## biochemistry

DEF Chemistry dealing with the chemical processes and compounds of living organisms.

## biochemistry

. biogeochemistry . enzymology . physiochemistry

bacteriology bioassav

biodegradation	∞ properties	voice control
bioengineering	his de sus delis s	hi afa a dha a la
∞ biology	biodegradation GS degradation	biofeedback  DEF Originally confined to the presenting of
biomarkers biomimetics	. biodegradation	a subject with sensory information about ongo-
chemical warfare	RT activated sludge	ing physiological activities, it now includes the
∞ chemistry	biochemistry	controlling of specific physiological activities
cytology	biofilms	through trained mental effort.
enzyme inhibitors	∞ biology	GS feedback
Gaia hypothesis	decay	. biofeedback
genetic engineering	decomposition	sensory feedback
histochemical analysis	deterioration	RT aerospace medicine
immunoassay		biocontrol systems
indoleacetic acids	biodiversity	blood pressure
interferon	USE biological diversity	conditioning (learning) ∞ control
marine chemistry	biodynamics	∞ control feedback control
metabolites molecular biology	DEF The study of the effects of dynamic	heart rate
mutagens	processes (motion, acceleration, weightless-	human factors engineering
nitrogen metabolism	ness, etc.) on living organisms. Used for biome-	psychology
nutrition	chanics.	p=)=gj
optical activity	UF biomechanics	biofilms
organic chemistry	RT anatomy	(added July 2001)
polymerase chain reaction	bioengineering	DEF Films of bacteria or other microbial
radioimmunoassay	biological models (mathematics)	organisms, the growth of which is usually de-
vegetation growth	∞ biology	fined by the surface of a biological or non-
	biophysics	biological substrate.
bioclimatology	∞ dynamics	RT bacteria
USE biometeorology	∞ science	biodegradation
<b>.</b> .	stress (physiology)	biogeochemistry
biocompatibility	bioelectric potential	contaminants extraterrestrial life
DEF Compatibility of substances with living	GS potential energy	∞ films
tissues and blood components.	. electric potential	fouling
GS compatibility	bioelectric potential	membranes
biocompatibility	RT bioelectricity	microorganisms
RT antibodies	∞ biology	ŭ
antigens	ion channels (biology)	bioflavonoids
∞ biology		UF vitamin P
blood	bioelectricity	GS organic compounds
immunology	UF neuron transmission	. cyclic compounds
leukocytes	RT bioelectric potential	. heterocyclic compounds
monocytes	∞ biology biomagnetism	bioflavonoids
physiological defenses vaccines	information processing (biology)	vitamins . <b>bioflavonoids</b>
Vaccines	ion channels (biology)	RT drugs
	myelin sheath	ni diags
biocontrol systems	neuromuscular transmission	biogenesis
SN (RESTRICTED TO ARTIFICIAL BIOTECHNOLOGICAL SYSTEMS FOR	spike potentials	USE biological evolution
THE CONTROL OF BIOLOGICAL		•
PROCESSESUSE REGULATORY MECHANISMS (BIOLOGY) FOR NATURAL	bioengineering	biogeny
PHYSIOLOGICAL REGULATION)	GS bioengineering	RT ∞ biology
RT biofeedback	. bioinstrumentation	biomarkers
∞ biology	biotelemetry implanted electrodes (biology)	∞ evolution
bionics	. implanted electrodes (biology) . biometrics	ontogeny
psychomotor performance regulatory mechanisms (biology)	body measurement (biology)	biogeochemistry
∞ systems	anthropometry	GS biochemistry
tolerances (physiology)	electroplethysmography	. biogeochemistry
tolerances (physiology)	cardiography	environmental chemistry
his a succession	ballistocardiography	. geochemistry
bioconversion	electrocardiography	biogeochemistry
DEF The transformation of algae and/or other biomass materials in successive stages to	magnetocardiography	RT biofilms
aliphatic organic acids to aliphatic hydrocarbons	phonocardiography	∞ biology
to diesel and/or other liquid fuels.	echocardiography	biomarkers
RT algae	seismocardiography	botany
∞ biology	vectorcardiography	∞ chemistry
biomass energy production	echoencephalography	geobotany International Geosphere-Biosphere
bioprocessing	electroencephalography electromyography	program
∞ conversion	. electronystagmography	minerals
enzyme activity	electronystagmography	plants (botany)
fermentation	plethysmography	planto (botany)
fuels	electroplethysmography	biography
hydrocarbon fuel production	radiocardiography	GS literature
methane	. tissue engineering	. biography
renewable energy solar heating	RT bioacoustics	RT awards
vegetation	bioastronautics	bibliographies
rogottation	biochemistry	case histories
his de son de hilling	biodynamics	documentation
biodegradability	∞ biology	higherande
DEF The characteristic of a substance that	biomimetics	biohazards
can be decomposed by microorganisms.  GS dissociation	bionics biopaks	(added August 2003) USE <b>biological hazards</b>
. biodegradability	biophysics	OOL DIDIOGICAL HAZALUS
RT ∞ biology	bone mineral content	bioinstrumentation
decay	∞ engineering	UF biosensors
decomposition	genetic engineering	GS bioengineering
deterioration	human factors engineering	. bioinstrumentation
organic materials	underwater breathing apparatus	biotelemetry

# biological diversity

RT ∞				lata ala anatata.
RI∞	implanted electrodes (biology)		eukaryotes	biochemistry
			Gaia hypothesis	biocompatibility
	biometrics		gene expression	biocontrol systems
	bionics		genetics	bioconversion
	echoencephalography		life sciences	biodegradability
00	engineering		mutagens	biodegradation
	IMBLMS		mutations	biodynamics
00	instruments		panspermia	bioelectric potential
	magnetocardiography		prokaryotes	bioelectricity
	measuring instruments		protein synthesis	bioengineering
	respirometers		protobiology	biogeny
∞	sensors			biogeochemistry
	sphygmography		cal hazards	bioinstrumentation
	wildlife radiolocation		led August 2003)	biological effects
			Infectious agents or biologically de-	biological evolution
	al activity		fectious materials that cause health risks	biological models (mathematics)
USE	activity (biology)	to hum	an or animals through absorption, inha-	bioluminescence
		lation o	r ingestion.	biomagnetism
biologica	al analysis	UF	biohazards	biomass
USE	bioassay	GS	hazards	biomass energy production
			. biological hazards	biomedical data
biologica	al availability	RT	contamination	biometeorology
(adde	ed August 2001)		hazardous materials	biometrics
	bioavailability		hazardous wastes	biomimetics
	•		toxic hazards	bionics
biologica	al cells		toxic riazards	
	cells (biology)	hiologic	eal markers	biophysics
OOL	cens (biology)		led August 2004)	bioreactors
biologica	al alaaks			biosatellites
		USE	biomarkers	biosphere
USE	rhythm (biology)	hiologic	nal madala	biosynthesis
h:-1:-	al dissaudits.		cal models	biotechnology
	al diversity	USE	bionics	biotelemetry
	ed June 1995)	history.		body composition (biology)
	The diversity of genes, species, and		cal models (mathematics)	body measurement (biology)
	ems that make up the variety and vari-	DEF	Mathematical models for living sys-	body size (biology)
ability of		tems.		body volume (biology)
UF	biodiversity	GS	models	bone demineralization
	genetic diversity		. mathematical models	bone mineral content
RT	bioassay		biological models (mathematics)	
	biological evolution	RT	biodynamics	botany
	biosynthesis		∞ biology	carbon cycle
	cytology		biomimetics	cells (biology)
	deforestation		bionics	complement (biology)
			digital simulation	cytogenesis
	differentiation (biology)			cytology
	gene expression		dynamic models	differentiation (biology)
	genetics	1-1-11		ecology
	mutations		cal rhythm	embryology
	protobiology	USE	rhythm (biology)	evolution (development)
	species diffusion			exobiology
			cal warfare agents	fatigue (biology)
biologic	al effects		led January 2002)	
	biological effects	USE	biological weapons	
	•		biological weapons	flight stress (biology)
-	desynchronization (biology)		biological weapons	genetic engineering
-	. desynchronization (biology) fluid shifts (biology)		cal weapons	genetic engineering genetics
-	. fluid shifts (biology)	biologi	cal weapons	genetic engineering genetics habitats
-	. fluid shifts (biology) . jet lag	biologi (ada	cal weapons led December 2001)	genetic engineering genetics habitats immunology
-	. fluid shifts (biology) . jet lag . relative biological effectiveness	<b>biologi</b> (ada DEF	cal weapons led December 2001) Infectious agents engineered for delib-	genetic engineering genetics habitats
	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE)	biologi (ada DEF erate u	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vi-	genetic engineering genetics habitats immunology
RT	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology)	biologi (ada DEF erate u ruses,	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms	genetic engineering genetics habitats immunology implanted electrodes (biology)
	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis	biologi (ada DEF erate u ruses, that car	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms hill or incapacitate.	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences
	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy	biologi (ada DEF erate u ruses, that car UF	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms hill or incapacitate. biological warfare agents	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology
RT	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay	biologi (ada DEF erate u ruses, that car	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate. biological warfare agents weapons	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science
RT	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology	biologi (add DEF erate u ruses, that car UF GS	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate. biological warfare agents weapons biological weapons	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology
RT	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data	biologi (ada DEF erate u ruses, that car UF	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate. biological warfare agents weapons biological weapons bacteria	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology
RT	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization	biologi (add DEF erate u ruses, that car UF GS	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate. biological warfare agents weapons biological weapons bacteria chemical warfare	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology morphology
RT	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data	biologi (add DEF erate u ruses, that car UF GS	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate. biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology morphology nitrogen metabolism
RT	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization	biologi (add DEF erate u ruses, that car UF GS	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms hill or incapacitate. biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology morphology nitrogen metabolism paleobiology
RT	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve	biologi (add DEF erate u ruses, that car UF GS	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate. biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores terrorism	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology morphology nitrogen metabolism paleobiology protobiology
RT	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve chemical effects disorientation	biologi (add DEF erate u ruses, that car UF GS	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms hill or incapacitate. biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology morphology nitrogen metabolism paleobiology protobiology radiobiology
RT ∞	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve chemical effects disorientation dosage	biologi (add DEF erate u ruses, that car UF GS	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate. biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores terrorism	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology morphology nitrogen metabolism paleobiology protobiology radiobiology relative biological effectiveness (RBE)
RT ∞	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve chemical effects disorientation dosage effects	biologi (add DEF erate u ruses, that car UF GS	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate. biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores terrorism toxins and antitoxins	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology morphology nitrogen metabolism paleobiology protobiology radiobiology relative biological effectiveness (RBE) reproduction (biology)
RT ∞	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve chemical effects disorientation dosage effects flight stress (biology)	biologi (add DEF erate u ruses, that car UF GS	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate. biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores terrorism toxins and antitoxins virulence	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology molecular biology morphology nitrogen metabolism paleobiology protobiology radiobiology relative biological effectiveness (RBE) reproduction (biology) rhythm (biology)
RT ∞	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve chemical effects disorientation dosage effects flight stress (biology) human reactions	biologi (add DEF erate u ruses, that car UF GS	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate. biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores terrorism toxins and antitoxins virulence viruses	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology molecular biology morphology nitrogen metabolism paleobiology protobiology radiobiology relative biological effectiveness (RBE) reproduction (biology) rhythm (biology) ∞ science
RT ∞	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve chemical effects disorientation dosage effects flight stress (biology) human reactions Orbiting Frog Otolith	biologi (ada DEF erate u ruses, that car UF GS	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate. biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores terrorism toxins and antitoxins virulence viruses	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology molecular biology morphology nitrogen metabolism paleobiology protobiology radiobiology relative biological effectiveness (RBE) reproduction (biology) rhythm (biology)
RT ∞	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve chemical effects disorientation dosage effects flight stress (biology) human reactions Orbiting Frog Otolith pathological effects	biologi (add DEF erate u ruses, that car UF GS RT	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate. biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores terrorism toxins and antitoxins virulence viruses  y (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology molecular biology morphology nitrogen metabolism paleobiology protobiology radiobiology relative biological effectiveness (RBE) reproduction (biology) rhythm (biology) ∞ science
RT ∞	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve chemical effects disorientation dosage effects flight stress (biology) human reactions Orbiting Frog Otolith pathological effects physiological effects	biologi (adda DEF erate u ruses, that car UF GS RT	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate. biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores terrorism toxins and antitoxins virulence viruses  y (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology morphology nitrogen metabolism paleobiology protobiology radiobiology relative biological effectiveness (RBE) reproduction (biology) rhythm (biology) ∞ science skin temperature (biology)
RT ∞	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve chemical effects disorientation dosage effects flight stress (biology) human reactions Orbiting Frog Otolith pathological effects physiological effects psychological effects	biologi (add DEF erate u ruses, that car UF GS RT	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate. biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores terrorism toxins and antitoxins virulence viruses  y (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) activation (biology)	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology morphology nitrogen metabolism paleobiology protobiology radiobiology relative biological effectiveness (RBE) reproduction (biology) rhythm (biology) science skin temperature (biology) tissues (biology)
RT ∞	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve chemical effects disorientation dosage effects flight stress (biology) human reactions Orbiting Frog Otolith pathological effects physiological effects psychological effects radiation dosage	biologi (adda DEF erate u ruses, that car UF GS RT	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate. biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores terrorism toxins and antitoxins virulence viruses  y (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) activation (biology)	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology morphology nitrogen metabolism paleobiology radiobiology radiobiology relative biological effectiveness (RBE) reproduction (biology) rhythm (biology) science skin temperature (biology) tissues (biology) veterinary medicine
RT ∞	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve chemical effects disorientation dosage effects flight stress (biology) human reactions Orbiting Frog Otolith pathological effects psychological effects psychological effects radiation dosage radiation effects	biologi (adda DEF erate u ruses, that car UF GS RT	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate. biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores terrorism toxins and antitoxins virulence viruses  y (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) activation (biology) activity (biology) activity cycles (biology)	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology molecular biology morphology nitrogen metabolism paleobiology protobiology radiobiology relative biological effectiveness (RBE) reproduction (biology) rhythm (biology)  science skin temperature (biology) tissues (biology) veterinary medicine
RT ∞	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve chemical effects disorientation dosage effects flight stress (biology) human reactions Orbiting Frog Otolith pathological effects psychological effects radiation dosage radiation effects space adaptation syndrome	biologi (adda DEF erate u ruses, that car UF GS RT	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate. biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores terrorism toxins and antitoxins virulence viruses  y (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) activity (biology) activity (cycles (biology) aerobiology	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology morphology nitrogen metabolism paleobiology radiobiology relative biological effectiveness (RBE) reproduction (biology) rhythm (biology) science skin temperature (biology) tissues (biology) veterinary medicine
RT ∞	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve chemical effects disorientation dosage effects flight stress (biology) human reactions Orbiting Frog Otolith pathological effects psychological effects psychological effects radiation dosage radiation effects	biologi (adda DEF erate u ruses, that car UF GS RT	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate. biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores terrorism toxins and antitoxins virulence viruses  y (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) activation (biology) activity (biology) activity cycles (biology)	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology morphology nitrogen metabolism paleobiology radiobiology radiobiology relative biological effectiveness (RBE) reproduction (biology) rhythm (biology) science skin temperature (biology) tissues (biology) veterinary medicine  bioluminescence GS emission . light emission
RT ∞	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve chemical effects disorientation dosage effects flight stress (biology) human reactions Orbiting Frog Otolith pathological effects psychological effects radiation dosage radiation effects space adaptation syndrome	biologi (adda DEF erate u ruses, that car UF GS RT	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate. biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores terrorism toxins and antitoxins virulence viruses  y (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) activity (biology) activity (cycles (biology) aerobiology	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology morphology nitrogen metabolism paleobiology radiobiology radiobiology relative biological effectiveness (RBE) reproduction (biology) rhythm (biology) rhythm (biology) science skin temperature (biology) tissues (biology) veterinary medicine  bioluminescence GS emission . light emission . luminescence
RT ∞	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve chemical effects disorientation dosage effects flight stress (biology) human reactions Orbiting Frog Otolith pathological effects physiological effects patients radiation dosage radiation effects space adaptation syndrome temperature	biologi (adda DEF erate u ruses, that car UF GS RT	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms hill or incapacitate.  biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores terrorism toxins and antitoxins virulence viruses  y (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) activation (biology) activity (biology) activity cycles (biology) aerospace medicine	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology molecular biology morphology nitrogen metabolism paleobiology protobiology radiobiology radiobiology relative biological effectiveness (RBE) reproduction (biology) rhythm (biology) science skin temperature (biology) tissues (biology) veterinary medicine  bioluminescence GS emission . light emission luminescence bioluminescence
RT ∞	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve chemical effects disorientation dosage effects flight stress (biology) human reactions Orbiting Frog Otolith pathological effects physiological effects patients radiation dosage radiation effects space adaptation syndrome temperature	biologi (adda DEF erate u ruses, that car UF GS RT	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate. biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores terrorism toxins and antitoxins virulence viruses  y (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) activation (biology) activity (biology) aerospace medicine aging (biology)	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology molecular biology nitrogen metabolism paleobiology radiobiology radiobiology relative biological effectiveness (RBE) reproduction (biology) rhythm (biology) science skin temperature (biology) tissues (biology) veterinary medicine  bioluminescence GS emission . light emission . luminescence RT ∞ biology
RT ∞	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve chemical effects disorientation dosage effects flight stress (biology) human reactions Orbiting Frog Otolith pathological effects psychological effects psychological effects psychological effects space adaptation syndrome temperature thermal pollution	biologi (adda DEF erate u ruses, that car UF GS RT	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate. biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores terrorism toxins and antitoxins virulence viruses  y (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) activity (biology) activity (biology) activity cycles (biology) aerospace medicine aging (biology) agriculture anatomy	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology molecular biology morphology nitrogen metabolism paleobiology protobiology radiobiology radiobiology relative biological effectiveness (RBE) reproduction (biology) rhythm (biology) science skin temperature (biology) tissues (biology) veterinary medicine  bioluminescence GS emission . light emission luminescence bioluminescence
RT ~~	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve chemical effects disorientation dosage effects flight stress (biology) human reactions Orbiting Frog Otolith pathological effects physiological effects psychological effects radiation dosage radiation dosage radiation effects space adaptation syndrome temperature thermal pollution biogenesis	biologi (adda DEF erate u ruses, that car UF GS RT	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms hill or incapacitate.  biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores terrorism toxins and antitoxins virulence viruses  y (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) activation (biology) activity (biology) activity (cycles (biology) aerospace medicine aging (biology) agriculture anatomy animals	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology molecular biology nitrogen metabolism paleobiology radiobiology radiobiology relative biological effectiveness (RBE) reproduction (biology) rhythm (biology) science skin temperature (biology) tissues (biology) veterinary medicine  bioluminescence GS emission . light emission . luminescence RT ∞ biology
RT ~~	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve chemical effects disorientation dosage effects fliight stress (biology) human reactions Orbiting Frog Otolith pathological effects physiological effects psychological effects radiation dosage radiation defects space adaptation syndrome temperature thermal pollution biogenesis evolution (development)	biologi (adda DEF erate u ruses, that car UF GS RT	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate. biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores terrorism toxins and antitoxins virulence viruses  y (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) activation (biology) activity (biology) activity cycles (biology) aerospace medicine aging (biology) agriculture anatomy animals bacteriology	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology morphology nitrogen metabolism paleobiology radiobiology radiobiology relative biological effectiveness (RBE) reproduction (biology) rhythm (biology) science skin temperature (biology) tissues (biology) veterinary medicine  bioluminescence GS emission . light emission . luminescence ET ∞ biology luminescent proteins
RT ~~	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve chemical effects disorientation dosage effects flight stress (biology) human reactions Orbiting Frog Otolith pathological effects physiological effects radiation dosage radiation dosage radiation effects space adaptation syndrome temperature thermal pollution biogenesis evolution (development) . biological evolution	biologi (adda DEF erate u ruses, that car UF GS RT	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate. biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores terrorism toxins and antitoxins virulence viruses  y (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) activation (biology) activity (biology) activity cycles (biology) aerospace medicine aging (biology) agriculture anatomy animals bacteriology bifurcation (biology)	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology morphology nitrogen metabolism paleobiology protobiology radiobiology radiobiology relative biological effectiveness (RBE) reproduction (biology) rhythm (biology) science skin temperature (biology) tissues (biology) veterinary medicine  bioluminescence GS emission . light emission . luminescence RT ∞ biology luminescent proteins phosphorescence
RT &	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve chemical effects disorientation dosage effects flight stress (biology) human reactions Orbiting Frog Otolith pathological effects physiological effects radiation dosage radiation dosage radiation effects space adaptation syndrome temperature thermal pollution  ial evolution biogenesis evolution (development) . abiological evolution . abiogenesis	biologi (adda DEF erate u ruses, that car UF GS RT	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate. biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores terrorism toxins and antitoxins virulence viruses  y (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) activation (biology) activity cycles (biology) aerospace medicine aging (biology) agriculture anatomy animals bacteriology bifurcation (biology) bioacoustics	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology morphology nitrogen metabolism paleobiology protobiology radiobiology radiobiology relative biological effectiveness (RBE) reproduction (biology) rhythm (biology) science skin temperature (biology) tissues (biology) veterinary medicine  bioluminescence GS emission . light emission luminescence RT ∞ biology luminescence BT ∞ biology luminescence biomagnetism
RT &	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve chemical effects disorientation dosage effects flight stress (biology) human reactions Orbiting Frog Otolith pathological effects physiological effects psychological effects radiation dosage radiation dosage radiation effects space adaptation syndrome temperature thermal pollution  al evolution biological evolution . abiogenesis archaebacteria	biologi (adda DEF erate u ruses, that car UF GS RT	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms hill or incapacitate.  biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores terrorism toxins and antitoxins virulence viruses  y (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) activation (biology) activity (biology) activity (cycles (biology) aerospace medicine aging (biology) agriculture anatomy animals bacteriology bifurcation (biology) bioacoustics bioassay	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology molecular biology morphology nitrogen metabolism paleobiology protobiology radiobiology radiobiology relative biological effectiveness (RBE) reproduction (biology) rhythm (biology) science skin temperature (biology) tissues (biology) veterinary medicine  bioluminescence GS emission . Ilight emission . Ilight emission . Ilighterisesence RT ∞ biology luminescence BT ∞ biology luminescence biomagnetism DEF Magnetic fields surrounding parts or
RT &	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve chemical effects disorientation dosage effects flight stress (biology) human reactions Orbiting Frog Otolith pathological effects physiological effects psychological effects radiation dosage radiation defects space adaptation syndrome temperature thermal pollution  all evolution biogenesis evolution (development) . biological ediversity	biologi (adda DEF erate u ruses, that car UF GS RT	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms in kill or incapacitate.  biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores terrorism toxins and antitoxins virulence viruses  y (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) activation (biology) activity (biology) activity (biology) aerospace medicine aging (biology) agriculture anatomy animals bacteriology bifurcation (biology) bioacoustics bioassay bioastronautics	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology morphology notrogen metabolism paleobiology radiobiology radiobiology relative biological effectiveness (RBE) reproduction (biology) rhythm (biology) science skin temperature (biology) tissues (biology) veterinary medicine  bioluminescence GS emission . light emission . luminescence  RT ∞ biology luminescent proteins phosphorescence  biomagnetism  DEF Magnetic fields surrounding parts or the whole of a living biological system; also, the
RT &	. fluid shifts (biology) . jet lag . relative biological effectiveness (RBE) activity (biology) apoptosis atrophy bioassay biology biomedical data bone demineralization Bragg curve chemical effects disorientation dosage effects flight stress (biology) human reactions Orbiting Frog Otolith pathological effects physiological effects psychological effects radiation dosage radiation dosage radiation effects space adaptation syndrome temperature thermal pollution  al evolution biological evolution . abiogenesis archaebacteria	biologi (adda DEF erate u ruses, that car UF GS RT	cal weapons led December 2001) Infectious agents engineered for delibse as a weapon; includes bacteria, vifungi, and other living microorganisms hill or incapacitate.  biological warfare agents weapons biological weapons bacteria chemical warfare infectious diseases spores terrorism toxins and antitoxins virulence viruses  y (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) activation (biology) activity (biology) activity (cycles (biology) aerospace medicine aging (biology) agriculture anatomy animals bacteriology bifurcation (biology) bioacoustics bioassay	genetic engineering genetics habitats immunology implanted electrodes (biology) interferon life sciences marine biology medical science microbiology molecular biology molecular biology morphology nitrogen metabolism paleobiology protobiology radiobiology radiobiology relative biological effectiveness (RBE) reproduction (biology) rhythm (biology) science skin temperature (biology) tissues (biology) veterinary medicine  bioluminescence GS emission . Ilight emission . Ilight emission . Ilighterisesence RT ∞ biology luminescence BT ∞ biology luminescence biomagnetism DEF Magnetic fields surrounding parts or

GS	magnetic fields . biomagnetism		waste utilization		biological models (mathematics)  ∞ biology
	magnetic properties	biomecl	hanics	,	biomimetics
	. biomagnetism	USE			control systems design
RT	bioelectricity				cybernetics
~	biology		ical data		human factors engineering
	biophysics electromagnetic fields	RT	aerospace medicine biological effects		man machine systems neuristors
	electromagnetic interactions	۰	⇒ biology		rheoelectrical simulation
	radiobiology		biometrics		robots
			body measurement (biology)		simulation
			cardiograms ∍ data		syncoders
biomarl	kers ed March 2002)	~	heart rate		systems engineering
	Any measurable feature from which		IMBLMS	biopak	s
	infer a particular environment-induced	D: /		GS	support systems
	in a biological system, detect the pres-		ical Experiment Scientific Satellite BESS (satellite)		. life support systems
	a disease, or infer the presence of life in	USE	BESS (Satellite)	RT	<b>biopaks</b> bioengineering
a partict	ular environment.  biological markers	biomete	eorology		biosatellites
01	clinical markers	UF	bioclimatology	•	∞ containers
RT	bioassay	GS	meteorology		enclosures
	biochemistry	RT ∘	. <b>biometeorology</b> ∘ biology		portable life support systems preserving
	biogeochemistry		coastal ecology		preserving
	biometrics		coastal plains	biophy	
	chemical indicators		ecology	GS	biophysics
	diagnosis		microclimatology nightglow		. health physics public health
	environmental monitoring		phenology	RT	biodynamics
	exobiology extraterrestrial life		phonology	• • • •	bioengineering
	life detectors	biometi			∞ biology
~	markers	GS	bioengineering		biomagnetism
	signatures		biometrics     body measurement (biology)		∞ physics ∞ science
	toxicology		anthropometry		∞ science
			electroplethysmography	biopoly	ymer denaturation
biomas	s		cardiography	UF	denaturation (biopolymers)
DEF	The dry weight of living matter in a		ballistocardiography electrocardiography		nucleic acid denaturation protein denaturation
	ea expressed in terms of mass or weight		magnetocardiography	RT	biopolymers
	of volume or area.		phonocardiography		molecular structure
GS	weight (mass) . biomass		echocardiography		nucleic acids
RT	animals		seismocardiography		polymer chemistry
~	• biology		vectorcardiography echoencephalography		proteins
	carbon cycle		electroencephalography	biopoly	ymers
~	density		electromyography	ĠS	biopolymers
	organisms plants (botany)		electronystagmography		. nucleic acids
	populations		electroretinography		deoxyribonucleic acid complementary DNA
	silviculture		plethysmography electroplethysmography		ribonucleic acids
~	weight		. radiocardiography		. proteins
		RT	bioinstrumentation		albumins
hiomae	s burning	٥	• biology		aspartates
	ed December 1999)		biomarkers biomedical data		calmodulin elastin
DEF	Burning of vegetation in forests, grass-		bone mineral content		enzymes
	nd agricultural lands usually carried out	۰	∘ engineering		aldolase
	the land and change its use; a significant tor to the global budgets of many radia-		Orbiting Frog Otolith		amidase
	nd chemically active gases and particu-		pupillometry		carbonic anhydrase catalase
	the atmosphere.		statistical analysis statistics		cholinesterase
GS	combustion				cytochromes
ОТ	. biomass burning	biomim			dehydrogenases
RT	air pollution climate change		ed October 2000)		hexokinase
	combustion products		The study of biological systems as for the development of synthetic materi-		lysozyme nuclease
	contaminants		ices, sensors, and processes.		oxidase
	deforestation	RT	biochemistry		papain
	environment pollution forest fires		bioengineering		pepsin
	man environment interactions	~	biological models (mathematics) biology		phosphatases protease
	smoke		bionics		renin
			cybernetics		thrombin
			smart materials		trypsin
biomas GS	s energy production energy conversion		smart structures		fibrin globulins
do	. biomass energy production	bionics			fibrinogen
RT	bioconversion	DEF	The study of systems, particularly elec-		gamma globulin
00	biology		stems, which function after the manner		hemoglobin
	bioreactors		eristic of, or resembling living systems.		carboxyhemoglobin
	ocrops energy sources	Used to UF	r biological models and biosimulation.  biological models		oxyhemoglobin keratins
	energy technology	0.	biosimulation		lipoproteins
	hydrocarbon fuel production	RT	artificial intelligence		luminescent proteins
	manures		automata theory		melanin
	methanation renewable energy		biocontrol systems bioengineering		myoglobin myosins
	vegetation		bioinstrumentation		osteocalcin
	The state of the s				

# bioprocessing

phytochrome	RT aerospace environments	. signal transmission
proteinoids	∞ biology	telemetry
prothrombin	biopaks	biotelemetry
protoproteins	environmental control	RT ∞ biology
tumor suppressor proteins	extraterrestrial life	communication equipment
. lignin	life detectors	∞ engineering
. polysaccharides	life support systems	Orbiting Frog Otolith
cellulose	manned spacecraft	pneumography
Fortisan (trademark)	space capsules	telemedicine
chitin	∞ spacecraft	wildlife radiolocation
dextrans	.,	
glycogens	biosensors	biotin
starches	USE bioinstrumentation	UF vitamin B complex
. oligonucleotides		GS organic compounds
RT biopolymer denaturation	biosimulation	. cyclic compounds
nucleotides	USE bionics	heterocyclic compounds
∞ polymers		biotin
polynucleotides	biosphere	vitamins
polypeptides	DEF That transition zone between Earth	. biotin
po., pop. ado	and atmosphere within which most forms of	RT drugs
bioprocessing	terrestrial life are commonly found; the outer	
RT aerospace environments	portion of the geosphere and inner or lower	biotite
bioconversion	portion of the atmosphere.	DEF A widely distributed and importan
biotechnology	RT ∞ biology	rock-forming mineral of the mica group. Used fo
electrophoresis	chemosphere	kimberlite.
microgravity	Earth hydrosphere	UF kimberlite
∞ microgravity applications	free atmosphere	GS minerals
pharmacology	Gaia hypothesis	. mica
space processing	homosphere	biotite
space processing spaceborne experiments	International Geosphere-Biosphere	Diotito
	program	Biot-Savart law
weightlessness		(added August 1998)
bioreactors	lower atmosphere	
	higgynthosia	DEF Law describing the intensity of a mag
0 1	biosynthesis	netic field produced by a current carrying wire
produce certain chemicals or a particular chemi-	RT biological diversity	Also applied in fluid dynamics to describe the
cal.	∞ biology	flow-velocity field induced by a vortex.
RT ∞ biology	chemical reactions	GS laws
biomass energy production	genetic engineering	. Biot-Savart law
biotechnology	metabolites	RT electromagnetism
clinostats	prostaglandins	flow velocity
tissue engineering	∞ synthesis	magnetic fields
	synthetic food	Maxwell equation
bioregeneration		vortices
USE regeneration (physiology)	Biot method	
	RT calculus of variations	biphase shift keying
bioregenerative life support systems	∞ methodology	USE binary phase shift keying
USE closed ecological systems		
	Biot number	biplanes
biorhythms	Biot number  DEF A standard heat transfer dimension-	
biorhythms USE rhythm (biology)		GS biplanes
USÉ rhythm (biology)	DEF A standard heat transfer dimension- less number.	GS <b>biplanes</b> . AN-2 aircraft
	DEF A standard heat transfer dimension- less number. GS dimensionless numbers	GS <b>biplanes</b> . AN-2 aircraft RT ∞ aircraft
USÉ rhythm (biology)	DEF A standard heat transfer dimension- less number. GS dimensionless numbers . Biot number	GS <b>biplanes</b> . AN-2 aircraft RT ∞ aircraft dual wing configurations
USÉ rhythm (biology) BIOS project	DEF A standard heat transfer dimension- less number. GS dimensionless numbers . Biot number ratios	GS biplanes . AN-2 aircraft RT ∞ aircraft dual wing configurations light aircraft
USE rhythm (biology)  BIOS project GS programs	DEF A standard heat transfer dimension- less number. GS dimensionless numbers . Biot number ratios . Biot number	GS biplanes . AN-2 aircraft RT ∞ aircraft dual wing configurations light aircraft monoplanes
USE rhythm (biology)  BIOS project GS programs . projects	DEF A standard heat transfer dimension- less number. GS dimensionless numbers . Biot number ratios . Biot number RT heat transfer	GS biplanes . AN-2 aircraft RT ∞ aircraft dual wing configurations light aircraft monoplanes tandem wing aircraft
USE rhythm (biology)  BIOS project GS programs . projects	DEF A standard heat transfer dimension- less number. GS dimensionless numbers . Biot number ratios . Biot number	GS biplanes . AN-2 aircraft RT ∞ aircraft dual wing configurations light aircraft monoplanes
USE rhythm (biology)  BIOS project GS programs . projects BIOS project	DEF A standard heat transfer dimension- less number. GS dimensionless numbers . Biot number ratios . Biot number RT heat transfer ∞ numbers	GS biplanes . AN-2 aircraft RT ∞ aircraft dual wing configurations light aircraft monoplanes tandem wing aircraft utility aircraft
USE rhythm (biology)  BIOS project GS programs . projects BIOS project  Biosatellite 1	DEF A standard heat transfer dimension- less number. GS dimensionless numbers . Biot number ratios . Biot number RT heat transfer ∞ numbers  biotechnology	GS biplanes . AN-2 aircraft RT ∞ aircraft dual wing configurations light aircraft monoplanes tandem wing aircraft utility aircraft bipolar transistors
USE rhythm (biology)  BIOS project GS programs . projects BIOS project  Biosatellite 1 GS artificial satellites	DEF A standard heat transfer dimension- less number. GS dimensionless numbers . Biot number ratios . Biot number RT heat transfer ∞ numbers  biotechnology DEF The application of engineering and	GS biplanes . AN-2 aircraft RT ∞ aircraft dual wing configurations light aircraft monoplanes tandem wing aircraft utility aircraft bipolar transistors GS electronic equipment
USE rhythm (biology)  BIOS project GS programs . projects BIOS project  Biosatellite 1 GS artificial satellites . biosatellites	DEF A standard heat transfer dimension- less number. GS dimensionless numbers Biot number ratios Biot number RT heat transfer ∞ numbers  biotechnology DEF The application of engineering and technological principles to the life sciences.	GS biplanes . AN-2 aircraft RT ∞ aircraft dual wing configurations light aircraft monoplanes tandem wing aircraft utility aircraft  bipolar transistors GS electronic equipment . solid state devices
USE rhythm (biology)  BIOS project GS programs . projects BIOS project  Biosatellite 1 GS artificial satellites . biosatellites Biosatellite 1	DEF A standard heat transfer dimension- less number. GS dimensionless numbers . Biot number ratios . Biot number RT heat transfer ∞ numbers  biotechnology DEF The application of engineering and technological principles to the life sciences. GS technologies	GS biplanes . AN-2 aircraft  RT ∞ aircraft  dual wing configurations light aircraft monoplanes tandem wing aircraft utility aircraft  bipolar transistors GS electronic equipment . solid state devices semiconductor devices
USE rhythm (biology)  BIOS project GS programs . projects BIOS project  Biosatellite 1 GS artificial satellites . biosatellites Biosatellite 1	DEF A standard heat transfer dimension- less number. GS dimensionless numbers . Biot number ratios . Biot number RT heat transfer ∞ numbers  biotechnology DEF The application of engineering and technological principles to the life sciences. GS technologies . biotechnology	GS biplanes . AN-2 aircraft  RT ∞ aircraft dual wing configurations light aircraft monoplanes tandem wing aircraft utility aircraft  bipolar transistors GS electronic equipment . solid state devices semiconductor devices transistors
USE rhythm (biology)  BIOS project GS programs . projects . BIOS project  Biosatellite 1 GS artificial satellites . biosatellites . Biosatellite 1 RT bioastronautics	DEF A standard heat transfer dimension- less number. GS dimensionless numbers Biot number ratios Biot number RT heat transfer ∞ numbers  biotechnology DEF The application of engineering and technological principles to the life sciences. GS technology biotechnology Lissue engineering	GS biplanes . AN-2 aircraft RT ∞ aircraft dual wing configurations light aircraft monoplanes tandem wing aircraft utility aircraft  bipolar transistors GS electronic equipment . solid state devices semiconductor devices transistors bipolar transistors
USE rhythm (biology)  BIOS project GS programs . projects . BIOS project  Biosatellite 1 GS artificial satellites . biosatellites . Biosatellite 1 RT bioastronautics  Biosatellite 2	DEF A standard heat transfer dimension- less number. GS dimensionless numbers Biot number ratios Biot number RT heat transfer ∞ numbers  biotechnology DEF The application of engineering and technological principles to the life sciences. GS technologies biotechnology Lissue engineering RT artificial cardiac pacemaker	GS biplanes . AN-2 aircraft RT ∞ aircraft dual wing configurations light aircraft monoplanes tandem wing aircraft utility aircraft  bipolar transistors GS electronic equipment . solid state devices semiconductor devices transistors RT bipolarity
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flight hazards Pedersen currents . tellurides ingestion (engines) . . bismuth tellurides birth fertilization bisphenols birds hydroxyl compounds fetuses GS GS animals alcohols . vertebrates pregnancy reproduction (biology) . . birds . . phenols . . . chickens reproductive systems ... bisphenols ... pigeons
... turkeys
... waterfowl
aircraft hazards
bird-aircraft collisions Bi-Sr-Ca-Cu-O superconductors bismaleimide USE BSCCO superconductors GS nitrogen compounds . amides bistable amplifiers . . polyimides USE flip-flops bismaleimide Earth resources imides endangered species bistable circuits . bismaleimide flight hazards GS circuits matrix materials homeotherms . bistable circuits polyimide resins plumage . flip-flops polymer matrix composites wildlife RT digital techniques resin matrix composites multivibrators birefringence trigger circuits DEF A double-refraction phenomenon in which an unpolarized beam of light is divided bismuth bistatic radar GS chemical elements into two beams with different directions and USE multistatic radar . bismuth relative velocities of propagation. The amount of . . bismuth isotopes energy transmitted along an optical path through a crystal which exhibits birefringence and is a bistatic reflectivity metals The characteristic of a reflector which . bismuth reflects energy along a line, or lines, different from, or in addition to, that of the incident ray. function of crystalline orientation. Used for Pock-. . bismuth isotopes els effect UF Pockels effect RT brightness bismuth 205 electromagnetic properties
optical properties GS incident radiation USE bismuth isotopes reflectance . . birefringence scattering bismuth alloys . Kerr electrooptical effect alloys refraction bit error rate bismuth alloys DEF The number of erroneous bits or char-. birefringence antimony alloys . Kerr electrooptical effect acters received from some fixed number of bits eutectic alloys transmitted. anisotropic media magnesium alloys rates (per time)
. bit error rate GS anisotropy tin alloys birefringent coatings binary codes binary data birefringent filters bismuth compounds calcite bismuth compounds binary digits electro-optics bismuth oxides Moire effects bit synchronization bismuth sulfides nonlinear optics hits bismuth tellurides error analysis photoelasticity RT ∞ chemical compounds error correcting codes error detection codes polarization (waves) ∞ Group 5A compounds reflectance ∞ metal compounds error signals refractivity temperature inversions pulse communication bismuth isotopes Voigt effect Reed-Solomon codes bismuth 205 signal to noise ratios chemical elements GS transmission efficiency birefringent coatings . bismuth transmission rate (communications) . bismuth isotopes GS coatings optical coatings . nuclides bit synchronization . birefringent coatings . . isotopes synchronism . bit synchronization GS anisotropic media ... bismuth isotopes birefringence metals bit error rate birefringent filters . bismuth frequency synchronization refractivity . . bismuth isotopes biternary code birefringent filters bismuth oxides RT ∞ codes bismuth compounds . bismuth oxides electromagnetic wave filters differential pulse code modulation optical filters digital systems pulse code modulation birefringent filters chalcogenides birefringence . oxides birefringent coatings . . metal oxides bits ∞ filters bismuth oxides binary digits optical properties RT **BSCCO** superconductors bit error rate refractivity drill bits bismuth sulfides Birkeland currents GS bismuth compounds (added May 1989) bismuth sulfides DEF Dark-colored (solid, semisolid, or viselectric current chalcogenides cous) cementitious substances, natural or . field aligned currents . sulfides manufactured, composed principally of high mo-. Birkeland currents inorganic sulfides lecular weight hydrocarbons, of which asphalts, . ionospheric currents . bismuth sulfides tars, pitches, and asphaltenes are typical. Birkeland currents sulfur compounds carbon electricity
. atmospheric electricity . sulfides coal . . inorganic sulfides coke ... ionospheric currents ... bismuth sulfides ∞ construction materials . . Birkeland currents lianite

bismuth tellurides

bismuth compounds

chalcogenides

tellurides

bismuth tellurides

. bismuth tellurides

tellurium compounds

auroral electrojets

auroral zones

geomagnetism

ionospheric disturbances

magnetic disturbances magnetic storms

electrojets

∞ materials

GS statistical analysis

bivariate analysis

solvent refined coal

. 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) energy 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.

celestial bodies ĞS

. blazars

. BL Lacertae objects

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

#### black and white photography

GS

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 spectroheliographs spectrophotography stereophotography ultraviolet photometry urography

Black Arrow launch vehicle
USE Black Knight rocket vehicle

### black body radiation

DEF 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

. 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

RT 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

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

GS 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

# . 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)

South Dakota Wyoming

## black holes (astronomy)

GS celestial bodies

. black holes (astronomy)

accretion disks 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 UF Black Arrow launch vehicle

GS rocket vehicles

. multistage rocket vehicles

... Black Knight rocket vehicle

. single stage rocket vehicles

Black Knight rocket vehicle

RT liquid propellant rocket engines

## Black Sea

GS seas

Black Sea

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)

GS syncope

blackout (physiology)

. . blackout prevention unconsciousness

. blackout (physiology)

. blackout prevention

acceleration tolerance

∞ blackout ∞ coma

blackout (propagation)

UF ionospheric blackout

GS electromagnetic interference

. radio frequency interference

.. blackout (propagation)

. . polar radio blackout

RT 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

RT prostate gland

	urology		controlled atmospheres		shock loads
bladde	rs (mechanics)		solar blankets	RT	blast loads aerial explosions
	diaphragms (mechanics)	blanket	s (fission reactors)		dynamic pressure
			Damper materials for fission reactors.		explosions
blade			o blankets		gust loads
USE	blade-vortex interaction	۰	odampers fission		impact loads
blade	slap noise		reactor design		overpressure pressure
	Impulsive noise (short high pressure		reactor materials		pressure pulses
	waves) of rotating blades, primarily heli-				Riemann waves
	blades. Used for helicopter impulsive	blanket DEF	s (fusion reactors)		shock waves
noise. UF	haliaantar impulaiya najaa		Damper materials for fusion reactors.  blankets		wave resistance
GS	helicopter impulsive noise elastic waves		fusion reactors		
0.0	. sound waves		limiters (fusion reactors)	blastoff	
	noise (sound)		moderators		rocket launching
	aircraft noise		reactor design		
	blade slap noise		reactor materials	blooto	
	flow noise aerodynamic noise	∞ blankin	ıg	∞ <b>blasts</b> SN	(USE OF A MORE SPECIFIC TERM IS
	blade slap noise	SN	(USE OF A MORE SPECIFIC TERM IS	0.11	RECOMMENDED CONSULT THE TERMS
RT			RECOMMENDEDCONSULT THE TERMS LISTED BELOW)	RT	LISTED BELOW) exhaust gases
	blade-vortex interaction	RT	blanking (cutting)		explosions
	Ffowcs Williams-Hawkings equation		forming techniques		jet blast effects
	helicopters propeller noise		stamping		shock waves
	properler noise	blankin	g (cutting)		sound waves
blade	tips		cutting		
GS	tips		. blanking (cutting)	Blattida	e
ОТ	. blade tips		forming techniques		cockroaches
RT	airfoil profiles blade slap noise		. pressing (forming)		
	blade-vortex interaction	RT 。	<b>blanking (cutting)</b> ∘ blanking	blazars	
	propeller blades		laser cutting		ed December 1988)
	rotary wings		shearing		Strongly optical polarized active galac-
	rotor blades (turbomachinery)		stamping		ei objects exhibiting BL Lacertae-like and
	wing tips	blanks			like characteristics.
∞ blades	•	RT	ammunition	GS	celestial bodies
SN	(USE OF A MORE SPECIFIC TERM IS		briquets		. blazars BL Lacertae objects
	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		forms (paper)	RT	accretion disks
DEF	Arms of propeller and rotating wings.		preforms		active galactic nuclei
	cally, restrictive, those parts of propellers	Rlacius	equation		active galaxies
	tating wings from the shank outward, i.e.,		analysis (mathematics)		disk galaxies
	parts having efficient airfoil shapes and ave the air. Vanes such as rotating vanes	0.0	. real variables		extragalactic radio sources infrared astronomy
	onary vanes in rotary air compressors, or		differential equations		quasars
	of turbine wheels.		Blasius equation		radio galaxies
RT	airfoils		flow equations		radio sources (astronomy)
	blades (cutters)		. boundary layer equations Blasius equation		Seyfert galaxies
	compressor blades	RT	boundary layer flow		
	fins hydrofoils		∘ equations	bleachi	ng
	propeller blades		Falkner-Skan equation	RT	chlorination
	rims		flat plates		cleaning
	rotary wings		Prandtl-Meyer expansion		fading
	rotor blades (turbomachinery)	Blasius	flow		
	stator blades turbine blades	GS	fluid flow	∞ bleedir	ng .
	turbomachine blades		. laminar flow	∞ bleedii SN	(USE OF A MORE SPECIFIC TERM IS
	vanes		Blasius flow . uniform flow		RECOMMENDEDCONSULT THE TERMS
			. Blasius flow	RT	LISTED BELOW) boundary layer control
	(cutters)	RT	flat plates		fluid mechanics
GS	cutters . blades (cutters)		head flow		hemorrhages
	razor blades		Tollmien-Schlichting waves		pressure reduction
RT	∞ blades		turbulent flow		
			two dimensional flow wedge flow	bleed-o	ff
	vortex interaction		weage now		pressure reduction
UF	blade slap vortex-blade interaction	blast de	eflectors		
RT	airfoils		Devices used to divert the exhaust of a		I to be a confirmation
• • • • • • • • • • • • • • • • • • • •	blade slap noise	rocket f	ired from a vertical position.		d-wing-body configurations ed April 2001)
	blade tips	GS	deflectors . blast deflectors		Flight vehicle configurations that maxi-
	helicopters	RT	baffles		verall efficiency by integrating the en-
	interactional aerodynamics ∞ interactions		diverters		vings, and the body into a single lifting
	otary wings		flame deflectors		. Sometimes referred to as flying-wing
	vortices		shielding	configu	
	wing tip vortices	blast lo	ads	UF	blended-wing-fuselage BWB configurations
		GS	aerodynamic forces		flying wing configurations
∞ blanke			. aerodynamic loads	GS	aerodynamic configurations
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		blast loads		body-wing configurations
DT	LISTED BELOW)		loads (forces)		blended-wing-body
RT	bedding equipment blankets (fission reactors)		. dynamic loads aerodynamic loads	RT	configurations aircraft configurations
	blankets (fusion reactors)		blast loads		aircraft design
	cloud cover		transient loads		SR-71 aircraft

	tailless aircraft	RT	charts		blood cells
blended	d-wing-fuselage		computer programming computer programs		blood volume cytology
	led April 2001)		flow charts		erythrocytes
USE	blended-wing-body configurations		research management		hematocrit
			systems analysis		hematocrit ratio
blends	maintena a				hematology
USE	mixtures		sland Sound (RI)		hematopoiesis
blight		GS	sounds (topographic features) . Block Island Sound (RI)		hemoglobin
GS	plant diseases	RT	Atlantic Ocean		leukocytes lymphocytes
	. blight		Rhode Island		monocytes
RT	alfalfa				platelets
	bacteria	blockin	g		p
	barley	UF	obstructing	blood o	
	botany	RT ∘	o arresters	UF	corpuscles (blood)
	citrus trees		closing	GS	cells (biology)
	corn crop growth		closures constraints		. blood cells
	crop vigor		constrictions		erythrocytes reticulocytes
	fungi		containment		hemocytes
	orchards		plugging		leukocytes
	parasites		plugs		eosinophils
	parasitic diseases		prevention		lymphocytes
	plants (botany)		retarders (devices)		monocytes
	rhizopus		retarding	DT	neutrophils
	rust fungi vineyards		sealing	RT	anemias
	vineyarus		seals (stoppers) stopping		blood blood cell count
blind la	anding		stopping		blood plasma
GS	landing	blocks			hematopoiesis
	. blind landing	RT	cubes (mathematics)		hematopoietic system
RT	aircraft landing		pulleys		hemoglobin
	approach indicators		slabs		
	automatic landing control	la la a alia	_		rculation
	instrument approach instrument flight rules	bloedite		GS	circulation
	instrument landing systems	DEF	A mineral consisting of hydrous so- angnesium sulfate that is colorless. Also		blood circulation     brain circulation
	landing instruments		as astrakanite or astrochanite.		coronary circulation
	night flights (aircraft)	GS	minerals		intercranial circulation
			. bloedite		ocular circulation
blindne		RT	magnesium sulfates		peripheral circulation
GS	blindness		sodium compounds		pulmonary circulation
RT	. flash blindness		sulfur compounds	RT	artificial cardiac pacemaker
нı	braille disabilities	blood			artificial heart valves
	eye diseases	GS	body fluids		blood blood-brain barrier
	optometry	ao	. blood		carboxyhemoglobin
	vision		fibrin		circulatory system
			fibrinogen		cyanosis
blinds			thrombin		diastole
RT	shielding		thromboplastin		electroplethysmography
c	∞ shutters	RT	anemias		heart conduction system
blinkin	a		biocompatibility blood cell count		heart function
RT	astronomical photometry		blood cells		heart implantation hematocrit
	display devices		blood circulation		hemodynamic responses
	eye movements		blood coagulation		hemodynamics
	visual perception		blood flow		hypervolemia
hliotow	_		blood groups		hypovolemia
blisters SN	(USE OF A MORE SPECIFIC TERM IS		blood plasma		intravascular system
011	RECOMMENDEDCONSULT THE TERMS		blood pressure		ischemia
RT	LISTED BELOW)		blood pumps blood vessels		phonoarteriography physiology
пі	infectious diseases iniuries		blood volume		rheoencephalography
	mucoceles		blood-brain barrier		rheometers
	protuberances		capillaries (anatomy)		tourniquets
	rupturing		carboxyhemoglobin test		vasodilator agents
	skin (anatomy)		cardiovascular system		
	viruses		coagulation		oagulation
B1	han a d		heart	GS	coagulation
Bloch I GS	energy bands		hematocrit hematopoiesis	RT	. <b>blood coagulation</b> blood
us	. Bloch band		hemoglobin	пі	clotting
RT a	∞ bands		hemorrhages		fibrin
	superconductivity		hypercapnia		hemostatics
			hypocapnia		myocardial infarction
	copolymers		oximetry		platelets
	led January 1990)		Rhesus factor		thrombin
GS	copolymers		transfusion		thrombocytes
D.T.	. block copolymers	blood -	call count		thromboplastin
RT	copolymerization micelles		ell count ed August 2004)		thrombosis
	polybutadiene		The number of leukocytes and eryth-	blood f	low
c	∞ polymers		per unit volume in a sample of venous	GS	fluid flow
	polystyrene		A complete blood count (CBC) also in-		. blood flow
		cludes r	measurement of the hemoglobin; hema-	RT	blood
	liagrams		nd erythrocyte indices.		capillary flow
GS	diagrams	RT	anemias		diastole
	. block diagrams		blood		hematocrit

hemoperfusion hematopoietic system tires systole hemodynamics Blue Goose missile tourniquets hypervolemia hypovolemia GS decoys blood groups stroke volume Blue Goose missile blood missiles platelets . surface to air missiles blood-brain barrier . Blue Goose missile A mechanism which maintains the conblood plasma RT booster rocket engines stancy of the neurons in the central nervous blood countermeasures system by preventing certain substances from blood cells J-85 engine leaving the bloodstream and entering the neural body fluids solid propellant rocket engines electrolyte metabolism  $RT \, \infty \, barriers$ hematocrit blue green algae blood Cyanophyta blood circulation blood pressure GS plants (botany) central nervous system algae pressure neurons . blood pressure . . blue green algae . . diastolic pressure . . . anabaena blowdown wind tunnels
GS test facilities . . hypertension ... Microcystis . . hypotension . . . Nostoc . wind tunnels . . lower body negative pressure . thermophilic plants . blowdown wind tunnels . systolic pressure ... blue green algae hotshot wind tunnels baroreflexes . . . anabaena hypersonic wind tunnels . . . Microcystis biofeedback hypervelocity wind tunnels blood . . . Nostoc low density research diastole low speed wind tunnels heart function Blue Scout rocket vehicle subsonic wind tunnels hemodynamic responses GS launch vehicles supersonic wind tunnels hemoperfusion . Blue Scout rocket vehicle transonic wind tunnels manometers rocket vehicles ophthalmodynamometry . multistage rocket vehicles Blue Scout rocket vehicle blowers orthostatic tolerance air conditioning sphygmography Algol engine air conditioning equipment solid propellant rocket engines systole ∞ tension air ducts X-248 engine blowing X-254 engine centrifugal compressors blood pumps XM-33 engine GS medical equipment compressors cooling systems . blood pumps blue shift (added February 2002)
DEF The displacement of observed spectral ducted fans pumps exhaust systems blood pumps lines toward the shorter wavelengths of the blue artificial heart valves fans biotechnology impellers end of the spectrum. RT absorption spectra astronomical spectroscopy injectors blood circulatory system materials handling Doppler effect
Doppler-Fizeau effect
emission spectra mixers heart ∞ nozzles pulmonary circulation refrigerating machinery sealing blood serum energy gaps (solid state) (added April 2004) sprayers photoluminescence DEF The clear portion of blood that is left after blood coagulation to remove blood cells superchargers quantum wells turbomachinery radial velocity ventilation and clotting proteins. red shift ventilation fans GS serums blue stars
DEF Stars of spectral type O, B, A, or F ventilators . blood serum blood vessels blowing according to the Draper catalog. GS anatomy blowing GS celestial bodies . circulatory system . stars . spanwise blowing . . cardiovascular system . . early stars tangential blowing ... blood vessels . . . hot stars . under surface blowing . upper surface blowing aeration . . . . arteries . . blue stars . . . . . aorta RT A stars . . . . . arterioles agitation B stars . . . . capillaries (anatomy) F stars blowers . . . . . glomerulus O stars boundary layer control . . . veins circulation angiogenesis Blue Steel missile circulation control airfoils bifurcation (biology) GS missiles compressing blood Blue Steel missile entrainment carotid sinus body liquid propellant rocket engines exhausting carotid sinus reflex externally blown flaps catheterization Blue Streak launch vehicle forced convection embolisms launch vehicles injection endothelium . Blue Streak launch vehicle mixing fat embolisms rocket vehicles ∞ pumping . Blue Streak launch vehicle vasoconstriction spraying vasodilation Eldo launch vehicle upper surface blown flaps liquid propellant rocket engines vasodilator agents wind (meteorology) ∞ vessels Blue Streak missile blown flaps blood volume GS missiles USE externally blown flaps . ballistic missiles blood . . intermediate range ballistic missiles blood cell count blowoff (combustion) cardiac output ... Blue Streak missile USE flameout cardiovascular system . surface to surface missiles

blowouts

RT fatigue life

chronic conditions

clinical medicine

hematocrit

. . intermediate range ballistic missiles

... Blue Streak missile

rocket vehicles

. Blue Streak missile RT liquid propellant rocket engines	papers	ellipsoids finned bodies
	boats	geometry
blueprints	GS surface vehicles	∞ hemispheres
GS documents	. boats	hemispherical shells
. drawings engineering drawings	lifeboats water vehicles	ogives ∞ rings
blueprints	. boats	spherical shells
RT layouts	lifeboats	streamlined bodies
reproduction (copying)	RT amphibious vehicles	
II Whate	harbors	body centered cubic lattices
bluff bodies  DEF Bodies having a broad, flattened front,	inflatable structures keels	UF BCC lattices GS crystal lattices
as in some reentry vehicles.	∞ military vehicles	. cubic lattices
RT blunt bodies	research vehicles	body centered cubic lattices
∞ bodies	ships	RT close packed lattices
ducted bodies	underwater vehicles	cluster variation method
forebodies lifting bodies	boattails	crystals face centered cubic lattices
reentry vehicles	DEF The rear portions of elongated bodies.	
Roshko prediction	as in rockets, having decreasing cross-sectiona	
·	area toward the rear.	GS composition (property)
bluffs (landforms)	RT afterbodies	body composition (biology)
USE cliffs	skirts tail assemblies	RT ∞ biology chemical composition
blunt bodies	tall assemblies	exoskeletons
RT aerodynamic configurations	BOD	exoskeletoris
aerodynamics	USE biochemical oxygen demand	body fluids
axisymmetric bodies		GS body fluids
bluff bodies	∞ bodies	. blood
∞ bodies	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	fibrin
ducted bodies forebodies	LISTED BELOW)	fibrinogen thrombin
missile bodies	RT afterbodies axisymmetric bodies	thromboplastin
nose cones	bluff bodies	. cerebrospinal fluid
power law bodies	blunt bodies	. endolymph
stagnation point	bodies of revolution	. lymph . mucus
symmetrical bodies	celestial bodies	. saliva
blunt leading edges	centerbodies ducted bodies	. sweat
DEF The obtuse cross sections of certain	elastic bodies	. urine
front edges of airfoils or wings.	finned bodies	RT blood plasma
GS edges	flexible bodies	diuresis
. leading edges <b>blunt leading edges</b>	foreign bodies	edema electrolyte metabolism
RT airfoils	Herbig-Haro objects	fluid shifts (biology)
forebodies	human body lenticular bodies	∞ fluids
trailing edges	lifting bodies	isotonicity
	maneuverable reentry bodies	lysozyme
blunt trailing edges  DEF The rounded or obtuse angled trailing	missile bodies	mineral metabolism obesity
edges of wings and/or control surfaces designed	planforms plastic bodies	perspiration
to enhance aerodynamic characteristics.	pyramidal bodies	secretions
GS edges	reentry vehicles	water
. trailing edges	rotating bodies	water balance
RT airfoils	slender bodies	body kinematics
control surfaces	solids streamlined bodies	GS kinematics
wings	symmetrical bodies	body kinematics
-	three dimensional bodies	RT acceleration (physics)
blurring	towed bodies	acceleration stresses (physiology)
RT aberration resolution	two dimensional bodies	kinetics particle theory
spatial filtering	bodies of revolution	velocity
-p	DEF Symmetrical bodies having the form	,
BMC	described by rotating a plane curve about ar	body measurement (biology)
USE bone mineral content	axis in its plane.	SN (LIMITED TO BIOLOGICAL APPLICATIONSFOR MEASUREMENT O
BMEWS	GS symmetrical bodies	NON-BIOLOGICAL BODIES USE SIZE
USE Ballistic Missile Early Warning	bodies of revolution     conical bodies	DETERMINATION) GS bioengineering
System	slender cones	. biometrics
•	cylindrical bodies	body measurement (biology)
BO-105 helicopter	rotating cylinders	anthropometry
GS Bolkow aircraft	parabolic bodies	electroplethysmography
. <b>BO-105 helicopter</b> passenger aircraft	power law bodies spheres	RT ∞ biology biomedical data
. BO-105 helicopter	celestial sphere	electrocardiography
utility aircraft	concentric spheres	electroencephalography
BO-105 helicopter	falling spheres	electrophysiology
V/STOL aircraft	Poincare spheres	∞ engineering
. rotary wing aircraft helicopters	rotating spheres toruses	human body human factors engineering
military helicopters	RT aerodynamic configurations	obesity
BO-105 helicopter	aerodynamics	size determination
·	axes of rotation	∞ sizing
boards (paper)	axisymmetric bodies	h. 1 . 2 . 4 . 2 . 3
UF fiberboard RT ∞ construction materials	∞ bodies cones	body size (biology)  RT anthropometry
paper (material)	disks (shapes)	⇔ biology
paper (material)	aiono (onapoo)	biology

obesity	. Boeing 717 aircraft	turbofan engines
body sway test	jet aircraft . turbofan aircraft	X-34 reusable launch vehicle
GS physiological tests	Boeing 717 aircraft	Boeing 747B aircraft
body sway test	monoplanes	USE E-4A aircraft
RT ∞ equilibrium	Boeing 717 aircraft	
head down tilt	passenger aircraft	Boeing 757 aircraft
vertical perception	. Boeing 717 aircraft	DEF Boeing's twin turbofan short/mediun
vestibular tests	transport aircraft	range transport aircraft that made its first fligh
body temperature	Boeing 717 aircraft	on February 19, 1982.
SN (LIMITED TO TEMPERATURE OF	RT ∞ aircraft	GS Boeing aircraft
BIOLOGICAL BODIES)	Boeing 720 aircraft	. <b>Boeing 757 aircraft</b> commercial aircraft
GS temperature	GS Boeing aircraft	. Boeing 757 aircraft
body temperature	. Boeing 720 aircraft	jet aircraft
RT cold tolerance	commercial aircraft	. turbofan aircraft
fever heat acclimatization	. Boeing 720 aircraft	Boeing 757 aircraft
heat stroke	jet aircraft	monoplanes
heat tolerance	. turbofan aircraft	. Boeing 757 aircraft
homeostasis	Boeing 720 aircraft	passenger aircraft
homeotherms	monoplanes	. Boeing 757 aircraft
humidity	. <b>Boeing 720 aircraft</b> passenger aircraft	transport aircraft . <b>Boeing 757 aircraft</b>
hyperthermia	. Boeing 720 aircraft	RT ∞ aircraft
hypothermia	transport aircraft	TTI 35 dilorati
perspiration	. Boeing 720 aircraft	Boeing 767 aircraft
poikilothermia	RT ∞ aircraft	DEF Boeing's widebodied medium range
shivering thermoreceptors		commercial transport aircraft that made its firs
thermoregulation	Boeing 727 aircraft	flight on September 26, 1981.
vasoconstriction	GS Boeing aircraft	GS Boeing aircraft
vasodilation	Boeing 727 aircraft	. Boeing 767 aircraft
Tao dinamon	commercial aircraft	commercial aircraft
body temperature (non-biological)	. Boeing 727 aircraft	. Boeing 767 aircraft
USE temperature	jet aircraft . turbofan aircraft	jet aircraft . turbofan aircraft
la a di . A a mana a ma bia ma a mi d a bi a m	Boeing 727 aircraft	Boeing 767 aircraft
body temperature regulation	passenger aircraft	monoplanes
USE 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	cargo aircraft	. Boeing 767 aircraft
obesity	Bushes Too should	RT ∞ aircraft
had a state	Boeing 733 aircraft	cargo aircraft
body weight	GS Boeing aircraft . Boeing 733 aircraft	turbofan engines
GS weight (mass)	commercial aircraft	Boeing 777 aircraft
. <b>body weight</b> RT obesity	. Boeing 733 aircraft	(added September 1994)
weightlessness	jet aircraft	GS Boeing aircraft
weignitiessitiess	. turbofan aircraft	. Boeing 777 aircraft
body-wing and tail configurations	Boeing 733 aircraft	commercial aircraft
UF wing-body and tail configurations	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
body-wing configurations	variable sweep wings	RT ∞ aircraft
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 . Boeing 707 aircraft	transport aircraft . Boeing 737 aircraft	supersonic commercial air transport
jet aircraft	RT ∞ aircraft	Boeing 2707 aircraft
. turbofan aircraft	cargo aircraft	transport aircraft
Boeing 707 aircraft	Saigo aiioiait	. Boeing 2707 aircraft
monoplanes	Boeing 747 aircraft	RT ∞ aircraft
. Boeing 707 aircraft	GS Boeing aircraft	
passenger aircraft	. Boeing 747 aircraft	Boeing aircraft
. Boeing 707 aircraft	commercial aircraft	UF Vertol military helicopters
transport aircraft	. Boeing 747 aircraft	GS Boeing aircraft
Boeing 707 aircraft	jet aircraft	. B-47 aircraft
RT ∞ aircraft	. Boeing 747 aircraft	. B-50 aircraft
Desire 747 sines	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 717 aircraft	. <b>Boeing 747 aircraft</b> RT ∞ aircraft	. Boeing 720 aircraft . Boeing 727 aircraft
commercial aircraft	SOFIA (airborne observatory)	. Boeing 727 aircraft
oommoroidi diioidii	COLITY (all politic observatory)	. Dooling 700 anotall

	. Boeing 737 aircraft		. liquid cooled reactors		x ray detectors	
	. Boeing 747 aircraft		water cooled reactors		A lay actions	
	. Boeing 757 aircraft		boiling water reactors	bolted		
	. Boeing 767 aircraft		experimental boiling water		Joints fastened with bolts. Th	ey are
	. Boeing 777 aircraft		reactors		designed for heavy loads.	
	. Boeing 2707 aircraft		Halden Boiling Water Reactor	GS	joints (junctions)	
	. C-135 aircraft		Los Alamos Water Boiler	RT	. bolted joints bolts	
	. CH-21 helicopter . CH-46 helicopter		Reactor Pathfinder nuclear reactor	ΠI	lap joints	
	. CH-47 helicopter		Spert reactors		riveted joints	
	. CH-62 helicopter	RT	nuclear power reactors		scarf joints	
	. E-3A aircraft		nuclear research and test reactors		ocali jolillo	
	. E-4A aircraft			bolts		
	. H-25 helicopter	bolides		GS	fasteners	
	V-22 aircraft	DEF	Brilliant meteors, especially ones		bolts	
	. VZ-2 aircraft		xplode; detonating fireballs.		rock bolts	
	. X-20 aircraft	GS	celestial bodies	DT	tiebolts	
БТ	. X-32 aircraft		. meteoroids	RT	anchors (fasteners)	
HI≪	aircraft AWACS aircraft		bolides		bolted joints couplings	
	McDonnell Douglas aircraft		Cyrillid meteoroids		holders	
	X-45 aircraft	RT	atmospheric entry		nuts (fasteners)	
	YC-14 aircraft		atmospheric heating		screws	
		c	o fireballs		studs (structural members)	
Bogoliu	bov theory		meteor trails meteorites		threads	
	BBGKY hierarchy		meteories meteoroid showers			
~	theories		Pribram meteorite		ann distribution	
			Thoram meteorite	GS	distribution (property)	
bogs		B . II . I			Boltzmann distribution	
USE	marshlands	Bolivia	nations	RT	atmospheric density	
Dahu m	ton	GS	nations . <b>Bolivia</b>		atmospheric diffusion	
	agneton	RT	South America		kinetic theory	
	A constant equivalent to the magnetic of an electron.	ΠI	South America		statistical mechanics two fluid models	
	constants	B. II.			two fluid filodels	
ao	. Bohr magneton		aircraft	Boltzm	ann transport equation	
RT	electrons	GS	Bolkow aircraft	RT	BBGKY hierarchy	
	magnetic moments	DT .	. BO-105 helicopter		BGK model	
	3	nis	~ all Craft		Burnett equations	
Bohr th					Chapman-Enskog theory	
GS	theoretical physics	boll we			∞ equations	
	. quantum theory	GS	animals . invertebrates		Fokker-Planck equation	
	Bohr theory		. arthropods		hydrodynamic equations	
RT	electron transitions		insects		kinetic theory	
	line spectra theories		Coleoptera		particle diffusion	
~	rifecties		boll weevils		statistical mechanics transport properties	
bohriun	1	RT	bollworms		transport theory	
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boiler p GS RT  boilers UF GS RT  boiling UF	chemical elements . bohrium hassium seaborgium  late structural members . plates (structural members) . metal plates . boiler plate thick walls  steam generators heating equipment . boilers external combustion engines furnaces generators heat balance pressure vessels steam vaporizers waste energy utilization  ebullition phase transformations . vaporizing . boiling . nucleate boiling . Leidenfrost phenomenon effervescence	bologra USE bolome DEF sity of sensitiveter. Us UF GS	infestation  Ims animals invertebrates arthropods insects insects bollworms larvae bollworms boll weevils com cotton fruits infestation moths  Instruments which measure the intenradiant energy by employing thermally electrical resistors; a type of actinomial of bolograms bolograms measuring instruments radiation measuring instruments bolometers  Dicke radiometers electrical measurement heat measurement infrared detectors	BOIZA PART OF THE BOMAI GS	so equations high temperature plasmas high temperature plasmas Maxwell equation partial differential equations wave equations optimization so problems optimization problems optimization problems  RC A missile missiles BOMARC missiles BOMARC A missile BOMARC A missile BOMARC A missile liquid propellant rocket engines solid propellant rocket engines RC B missile missiles BOMARC missiles BOMARC missiles BOMARC missiles BOMARC B missile liquid propellant rocket engines solid propellant rocket engines RC missiles	
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boiler p GS RT  boilers UF GS RT  boiling UF GS	chemical elements . bohrium hassium seaborgium  late structural members . plates (structural members) . metal plates . boiler plate thick walls  steam generators heating equipment . boilers external combustion engines furnaces generators heat balance pressure vessels steam vaporizers waste energy utilization  ebullition phase transformations . vaporizing . boiling . nucleate boiling . Leidenfrost phenomenon effervescence	bologra USE bolome DEF sity of sensitiveter. Us UF GS	infestation  Ims animals . invertebrates . arthropods insects bollworms larvae . bollworms boll weevils corn cotton fruits infestation moths  Instruments which measure the intenradiant energy by employing thermally e electrical resistors; a type of actinomied for bolograms measuring instruments . radiation measuring instruments . bolometers  Dicke radiometers electrical measurement heat measurement infrared detectors photometers potentiometers (instruments)	BOIZA PART OF THE BOMAI GS	equations high temperature plasmas Maxwell equation partial differential equations wave equations  problems optimization problems  RC A missile missiles antiaircraft missiles BOMARC missiles BOMARC A missile surface to air missiles BOMARC A missile liquid propellant rocket engines solid propellant rocket engines RC B missile antiaircraft missiles BOMARC a missile liquid propellant rocket engines RC B missile antiaircraft missiles BOMARC missiles BOMARC B missile surface to air missiles BOMARC B missile surface to air missiles BOMARC B missile surface to air missiles BOMARC B missile liquid propellant rocket engines solid propellant rocket engines solid propellant rocket engines RC missiles missiles	
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	BOMARC A missile	shaped charges torpedoes	welding
	DOWARO B missile	warheads	bondlines
b	bomb calorimeters		USE bonded joints
	GS measuring instruments	bombs (pressure gages)	
	. calorimeters bomb calorimeters	USE pressure gages	Bondoc meteorite  GS celestial bodies
	RT drop calorimeters flame calorimeters	bombs (samplers)	. meteorites stony meteorites
	heat measurement high temperature tests	USE samplers	achondrites
	temperature measuring instruments	Bonanza aircraft	Bondoe meteorite
	tomporatare measuring menuments	USE <b>C-35 aircraft</b>	bone demineralization
∞ <b>l</b>	bombardment	oce o do unoran	GS demineralizing
	SN (USE OF A MORE SPECIFIC TERM IS	bond graphs	bone demineralization
	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)	GS charts	diseases . bone demineralization
	RT electron bombardment	. graphs (charts)	RT biological effects
	hypervelocity projectiles	. bond graphs	∞ biology
	irradiation meteoritic damage	RT control systems design	bones
	sputtering	differential equations dynamic models	hindlimb suspension
	Spattering	mathematical models	osteoblasts
b	bomber aircraft	∞ mathematics	osteocalcin osteogenesis
	GS attack aircraft	simulation	osteoporosis
	. bomber aircraft	systems analysis	physiological effects
	A-2 aircraft A-3 aircraft	systems engineering	physiology
	A-4 aircraft		weightlessness
	A-5 aircraft	Bond number	hana danaitu
	A-6 aircraft	(added December 1999)	bone density (added August 2004)
	B-1 aircraft	DEF Dimensionless number representing the ratio between gravitational force and the	USE bone mineral content
	B-2 aircraft	surface tension of a bubble, drop, or meniscus.	
	B-26 aircraft B-47 aircraft	GS dimensionless numbers	bone formation
	B-50 aircraft	. Bond number	(added January 2005)
	B-52 aircraft	RT drops (liquids)	USE osteogenesis
	B-57 aircraft	gravitational effects interfacial tension	bone marrow
	B-58 aircraft	menisci	GS tissues (biology)
	B-66 aircraft B-70 aircraft		connective tissue
	F-111 aircraft	bonded joints	bone marrow
	Shackleton bomber	(added March 1993)	RT bones
	Valiant aircraft	UF bondlines	cancer erythrocytes
	Victor MK-1 aircraft	GS joints (junctions)	hematopoiesis
	Vulcan aircraft	. bonded joints	hematopoietic system
	RT ∞ aircraft antisubmarine warfare aircraft	RT adhesive bonding bonding	leukemias
	bombing equipment	rocket engine cases	leukocytes
	F-117A aircraft	rocket linings	lymphatic system monocytes
	jet aircraft	scarf joints	osteogenesis
	∞ military aircraft	soldered joints	cotoogonoolo
	∞ military aviation	solid propellant rocket engines	bone mineral content
	tanker aircraft training aircraft	welded joints	UF BMC
	Vampire MK 35 aircraft	h a malim m	bone density
		bonding  DEF Specifically, a system of connections	GS content . bone mineral content
b	bombing equipment	between all metal parts of an aircraft or other	RT bioengineering
	GS onboard equipment	structure forming a continuous electrical unit	∞ biology
	. aircraft equipment	and preventing jumping or arching of static	biometrics
	bombing equipment RT B-1 aircraft	electricity. Glueing or cementing together for	bones
	bomber aircraft	structural strength.	calcium carbonates
	bombs (ordnance)	GS <b>bonding</b> . adhesive bonding	calcium phosphates collagens
	∞ equipment	. agglutination	minerals
	fire control	. ceramic bonding	osteoblasts
1	bombs	. explosive welding	osteocalcin
ω,	SN (USE OF A MORE SPECIFIC TERM IS	. inertia bonding	osteogenesis
	RECOMMENDEDCONSULT THE TERMS	. metal bonding	osteoporosis
	LISTED BELOW) RT bombs (ordnance)	metal-metal bonding . reaction bonding	bones
	precision guided projectiles	. resin bonding	GS anatomy
	pressure gages	RT adhesion	. musculoskeletal system
	samplers	adhesion tests	bones
	handa (adam)	beam leads	femur
	bombs (ordnance)  DEF Explosive devices designed to be	binding bonded joints	pelvis scapula
	detonated under specified conditions.	cementation	scapula skull
	GS explosive devices	chemical bonds	cranium
	bombs (ordnance)	cohesion	intracranial cavity
	RT ammunition	cold welding	mastoids
	B-1 aircraft	debonding (materials)	spine
	bombing equipment ∞ bombs	diffusion welding ∞ joining	vertebrae sternum
	explosives	∞ joining joints (junctions)	sternum tibia
	incendiary ammunition	laminates	ulna
	missiles	laser welding	RT arthritis
	nuclear weapons	sealing	bone demineralization
	projectiles	soldering	bone marrow
	pyrotechnics	superplastic forming	bone mineral content

## Bonne projection

calcification ... Nike booster rocket engines RT shoes cartilage P-1 engine . . . rocket engine 9KS-11000 chin Boral connective tissue ... Space Shuttle Boosters composite materials exoskeletons . . . . Advanced Solid Rocket Motor . Boral joints (anatomy) (STS) composite structures lamellà . . . X-405 engine laminates osteoblasts air breathing boosters . Boral osteocalcin Ares 1 first stage aluminum Ares 5 cargo launch vehicle osteogenesis boron carbides Blue Goose missile osteoporosis radiation shielding spinal cord ∞ boosters splints burnout boranes Delta 4 Heavy launch vehicle GS boron compounds Bonne projection ducted rocket engines . boron hydrides DEF A type of conical map projection in expendable stages (spacecraft) . . boranes which meridians are plotted as curves and the F-1 rocket engine . . . carborane parallels are spaced along them at true dishybrid propellant rocket engines hydrazine borane internal combustion engines RT pentaboranes mapping launch vehicles liftoff (launching) hydrogen compounds maps . hydrides ∞ projection liquid propellant rocket engines . . boron hydrides Mace missiles Boolean algebra ... boranes nuclear engine for rocket vehicles DEF The study of the manipulation of sym-. . . . carborane nuclear rocket engines bols representing operations according to the . . . . hydrazine borane oxygen-hydrocarbon rocket engines . . pentaboranes rules of logic. Boolean algebra corresponds to recoverable spacecraft solid propellant rocket engines an algebra using only the numbers 0 and 1, RT borohydrides therefore can be used in programming digital spinning solid upper stage computers which operate on the binary prinstage separation borates ciple. sustainer rocket engines GS boron compounds GS mathematical logic turborocket engines . borates . lattices (mathematics) TX-354 engine . lithium borates ... Boolean algebra RT boric acids . . Boolean functions ∞ oxygen compounds ∞ booster rockets RT algebra (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN ∞ conjunction Borazon (trademark) instruction sets (computers) RT launch vehicles USE boron nitrides ∞ logic set theory switching theory ∞ boosters borders (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) air breathing boosters transistor logic SN RT boundaries ∞ unions margins rims **Boolean functions** amplifiers functions (mathematics) apogee boost motors Bordoni peaks . Boolean functions booster rocket engines RT elastic deformation mathematical logic boosters (explosives) plastic deformation . lattices (mathematics) launch vehicles resonant frequencies . . Boolean algebra Scout project stress relaxation ... Boolean functions Space Shuttle Boosters Titan project boom boredom (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS detachment boosters (explosives) human behavior LISTED BELOW) GS explosive devices human reactions booms (equipment) . initiators (explosives) sonic booms lethargy boosters (explosives) tail assemblies monotony igniters psychological effects initiators (explosives) psychology booms (equipment) boosters (explosives) space flight stress GS positioning devices (machinery) RT ∞ boosters booms (equipment) exploding wires  $RT \, \infty \, boom$ boreholes cranes DEF Holes made by drilling into the ground boostglide vehicles to study stratification, to search for or to obtain Vehicles designed to glide in the atmoboost natural resources, or to release underground sphere following a rocket-powered phase. Por-USE acceleration (physics) pressures tions of the flights may be ballistic, out of the RT cavities atmosphere. booster recovery clays GS gliders RT expendable stages (spacecraft) drilling . boostglide vehicles recoverable launch vehicles excavation . X-20 aircraft ∞ recovery reentry vehicles exploration recovery parachutes boostglide vehicles geology spacecraft recovery . X-20 aircraft gravels ∞ holes aerospace planes booster rocket engines minerals ∞ aircraft rocket boosters pits (excavations) Astro vehicle engines rocks gliding . rocket engines shales hypersonic aircraft .. booster rocket engines soils hypersonic gliders lifting reentry vehicles . AJ-10 engine . . . Algol engine . apogee boost motors manned spacecraft Borel sets recoverable spacecraft . . . H-1 engine GS analysis (mathematics) . LR-87-AJ-5 engine rocket planes . real variables ... M-1 engine ∞ vehicles . . measure and integration . M-55 engine . Borel sets . . . MA-2 engine boots (footwear) mathematical logic ... MA-3 engine clothing . set theory GS ... MA-5 engine . boots (footwear) . . Borel sets

RT probability theory boron hydrides composite materials fiber composites hores boron fiber orientation cavities chemical elements USE GS fiber strength metalloids  $\infty$  filaments borescopes . . boron glass fibers USE endoscopes . . . boron isotopes metal matrix composites ... boron 10 polymer matrix composites boresight error boron reinforced materials reinforced plastics DEF Linear displacement between two par-Borsic (tradename) allel lines of sight. boron fluorides GS errors boron 10 boron trifluoride UF . position errors GS chemical elements boron compounds GS boresight error . metalloids boron fluorides air navigation . . boron halogen compounds boresights . . . boron isotopes . fluorine compounds directional antennas . . . . boron 10 . . fluorides displacement . nuclides . boron fluorides displacement measurement . . isotopes . halides error analysis ... boron isotopes . . fluorides instrument errors . . . . boron 10 ... boron fluorides line of sight communication navigation instruments boron alloys boron hydrides optical tracking GS alloys GS boron compounds range errors boron alloys . boron hydrides metalloids . . aluminum borohydrides boresights . . beryllium borohydrides boresight error boron carbides . . boranes directional antennas GS boron compounds . . . carborane optical tracking boron carbides . . . hydrazine borane carbon compounds . pentaboranes boric acids . carbides hydrogen compounds GS acids . boron carbides . hydrides boric acids Boral . . boron hydrides boron compounds ceramic fibers aluminum borohydrides boric acids . . . beryllium borohydrides RT borates boron chlorides . . . boranes boron compounds . . . . carborane borides boron chlorides . . . . hydrazine borane GS boron compounds halogen compounds . . . . pentaboranes borohydrides . borides . chlorine compounds . . chromium borides . . chlorides titanium borides . . boron chlorides RT intermetallics boron isotopes . halides GS chemical elements . . chlorides boring machines . metalloids ... boron chlorides GS tools . . boron . machine tools ... boron isotopes boron compounds boring machines . . boron 10 GS boron compounds RT drills . nuclides . borates ∞ machinery . . isotopes . lithium borates ... boron isotopes boric acids Born approximation . . . . boron 10 . borides Born-Mayer equation analysis (mathematics) chromium borides boron nitrides . . titanium borides . numerical analysis UF Borazon (trademark) borohydrides . . approximation GS boron compounds aluminum borohydrides .. Born approximation . boron nitrides beryllium borohydrides nitrogen compounds . nitrides RT ∞ equations boron carbides quantum mechanics boron chlorides scattering cross sections . . boron nitrides boron fluorides RT carbon nitrides Born-Infeld theory . boron hydrides aluminum borohydrides electrodynamics boron oxides beryllium borohydrides electrostatics GS boron compounds . . boranes Maxwell equation boron oxides nonlinear equations carborane chalcogenides hydrazine borane ∞ theories . oxides pentaboranes . . boron oxides boron nitrides Born-Mayer equation USE Born approximation . boron oxides boron phosphides boron phosphides Born-Oppenheimer approximation diborane boron compounds boron phosphides GS analysis (mathematics) organic boron compounds . numerical analysis tourmaline phosphorus compounds . phosphides RT ∞ chemical compounds . . approximation .. boron phosphides ... Born-Oppenheimer approximation high energy fuels RT Franck-Condon principle metal fuels boron reinforced materials metal propellants composite materials borohydrides boron reinforced materials . . aluminum boron composites boron compounds boron fibers borohydrides DEF Fibers produced by vapor deposition . . boron-epoxy composites aluminum borohydrides methods; used in various composite materials to RT boron . beryllium borohydrides impart a balance of strength and stiffness. ceramic matrix composites hydrogen compounds . hydrides fibers epoxy resins fiber composites GS . reinforcing fibers

. boron fibers

Borsic (tradename)

carbon fibers

aluminum boron composites

.. borohydrides

boranes

. . . aluminum borohydrides

. . beryllium borohydrides

fibers

∞ materials

plastics reinforced plastics

reinforcing fibers		mesons		flasks
	bosons			glassware
boron trifluoride	GS	particles		tanks (containers)
USE boron fluorides	ao	. elementary particles	Bouque	er law
havan anawy aammaaitaa		bosons		A relationship describing the rate of
boron-epoxy composites GS composite materials		alpha particles		e of flux density of a plane-parallel beam
boron reinforced materials		Higgs bosons		ochromatic radiation as it penetrates a
boron-epoxy composites		mesons	medium	which both scatters and absorbs at that
. polymer matrix composites		eta-mesons	waveler	ngth. Used for Lambert law.
epoxy matrix composites		hyperons		Lambert law
boron-epoxy composites		xi hyperons	RT	absorptivity
. resin matrix composites		kaons		Beer law
boron-epoxy composites		meson resonance		electromagnetic absorption
RT aircraft structures		X mesons		thermoplasticity
∞ chemical compounds		muons	boules	
composite structures		omega-mesons pions	GS	crystals
epoxy resins		vector mesons	ao	. boules
fiber composites		rho-mesons	RT	single crystals
laminates		sigma-mesons		single oryetale
plastic aircraft structures spacecraft components		photons	bounda	ries
superhybrid materials		xi hyperons	UF	peripheries
Supernybria materials		nuclear particles	GS	boundaries
borosilicate glass		bosons		. core-mantle boundary
DEF Low expansion heat resistant glass.		alpha particles		. fluid boundaries
Used for Pyrex (trademark).		Higgs bosons		gas-solid interfaces
UF Pyrex (trademark)		mesons		jet boundaries
GS glass		eta-mesons		liquid-liquid interfaces
. borosilicate glass		hyperons		liquid-solid interfaces
RT glassware		xi hyperons kaons		liquid-vapor interfaces . antiphase boundaries
honeycomb mirrors		meson resonance		. free boundaries
silicon dioxide		X mesons		grain boundaries
		muons	RT	airspace
Borsic (tradename)		omega-mesons		borders
DEF Trademark of United Aircraft Products,		pions		boundary conditions
Inc. for its boron aluminum composite materials.		vector mesons		circumferences
GS composite materials		rho-mesons		contour sensors
. metal matrix composites		sigma-mesons		delineation
. Borsic (tradename)		photons		fences (barriers)
RT aluminum		xi hyperons		interfaces
boron boron fibers	RT	Bose-Einstein condensates		regions
fiber composites		charged particles		
∞ materials		Fermi-Dirac statistics		ry conditions
metal fibers		quantum statistics		ed July 1990)
metals		standard model (particle physics)	GS	conditions . boundary conditions
		string theory		perfectly matched layers
Bose geometry		supersymmetry	RT	boundaries
GS geometry	botany			boundary element method
. Bose geometry	GS	botany		boundary layers
RT equations of state		. geobotany		boundary value problems
	RT	agriculture		computational aeroacoustics
Bose-Chaudhuri-Hocquenghem codes		alfalfa		Trefftz method
USE BCH codes		barley		vortex lattice method
		biogeochemistry		
Bose-Einstein condensates	~	biology		ry detection (imagery)
(added February 1996)		blight	USE	edge detection
GS condensates		brown wave effect	haada	unt alamant mathad
Bose-Einstein condensates		brush (botany)		rry element method  Technique for solving two- and three-
RT atom optics		chaparral citrus trees		onal boundary value problems in ther-
bosons		corn		mics, mechanics, etc.
condensed matter physics		farm crops		analysis (mathematics)
ideal gas relativistic effects		fruits		. numerical analysis
superfluidity		genetically modified plants		approximation
Superminianty		green wave effect		boundary element method
Bose-Einstein statistics		habitats		Trefftz method
USE quantum statistics		hay	RT	boundary conditions
ool quantum otationso		leguminous plants		computational mechanics
Bosnia		oats		stress analysis
(added June 1996)		plants (botany)		
USE Bosnia and Herzegovina	~	science		ry integral method
00= <b>200</b> a a a a a a a		silviculture		Technique related to the boundary el-
Bosnia and Herzegovina		sugar beets		nethod, and used for laminar and turbu-
(added June 1996)		sugar cane		v problems. analysis (mathematics)
UF Bosnia		tomatoes	do	. numerical analysis
Herzegovina		vegetation growth vineyards		boundary integral method
GS nations	~	zoology		procedures
Bosnia and Herzegovina	~			. boundary integral method
RT Croatia	Botswa	na	RT	boundary value problems
Europe		nations		∘ methodology
Serbska Republic	-	. Botswana		
Yugoslavia	RT	Africa		ry layer combustion
		Republic of South Africa	GS	combustion
boson fields				boundary layer combustion
RT field theory (physics)	bottles	containers	RT	boundary layers
∞ fields				combustible flow

convective heat transfer diffusion flames flame propagation laminar boundary layer reacting flow

boundary layer control

laminar flow control GS

boundary layer control

. porous boundary layer control

aerodynamics airfoil fences

∞ bleeding blowing

boundary layers buffeting

circulation control airfoils

∞ control

control surfaces drag devices fluid amplifiers flutter jet control leading edge slats lift augmentation lift devices riblets

spoilers tangential blowing

turbulence upper surface blown flaps

vacuum

vortex generators wing slots X-21 aircraft

boundary layer equations

flow equations

boundary layer equations

. Blasius equation boundary layers differential equations

 $\infty$  equations flow theory

Reynolds averaging

boundary layer flow

GS fluid flow viscous flow

. . boundary layer flow

. . . reattached flow . . . secondary flow

... separated flow

... boundary layer separation

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

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

breakawav

flow separation

laminar boundary layer separation

GS fluid flow

. viscous flow

. . boundary layer flow

... separated flow

... boundary layer separation

RT 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

GS 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

RT 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

. 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 lavers

GS

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

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

∞ layers

liquid-liquid interfaces liquid-solid interfaces

mixing layers (fluids) panel method (fluid dynamics)

shear layers surface layers wall pressure

boundary lubrication

lubrication GS

boundary lubrication

bearings lubricants squeeze films

vapor phase lubrication wear resistance

boundary value problems

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 unknown, 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

## **Boussinesq approximation**

. pressure sensors diffraction paths . . . . . thalamus . Bourdon tubes electron diffraction . . . hippocampus angiography pressure gages isotropy pressure measurement ∞ orientation brain circulation ∞ physical properties brain damage radiography cerebrospinal fluid Boussinesq approximation echoencephalography The assumption (frequently used in the Bragg cells electroencephalography theory of convection) that the fluid is incom-(added September 1988) encephalitis pressible except insofar as the thermal expan-GS modulators head (anatomy) sion produces a buoyancy. Bragg cells information processing (biology) convection acousto-optics intracranial pressure heat transfer amplitude modulation neuroglia incompressible fluids crystal optics neurology perturbation theory light beams pituitary gland thermal expansion light modulation psychiatry phase demodulators psychology bow shock waves phase modulation rheoencephalography USE shock waves ultrasonic light modulation spinal cord bow waves Bragg curve brain circulation DEF Shock waves in front of a body such A curve showing the average specific as an airfoil, or apparently attached to the forward tip of the body. GS circulation ionization of an ionizing particle of a particular . blood circulation kind as a function of its kinetic energy, velocity, hypersonic wakes . brain circulation RT or residual range. Mach cones brain biological effects magnetosheath rheoencephalography nuclear reactions shock waves particle interactions surface waves brain damage radiation effects brain injuries ∞ bows injuries **Bragg gratings** (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN brain damage (added August 1997) gratings (spectra)

. Bragg gratings
apodization brain RT bending camber brain injuries Bragg angle Bragg reflectors forebodies (added August 2004) heaving USE brain damage interferometers box beams optical fibers brain stem structural members GS optical filters . beams (supports) GS anatomy . nervous system . box beams Bragg mirrors . . central nervous system RT ∞ boxes (added August 1997) USE Bragg reflectors . . . brain cantilever beams . . . . brain stem airders Bragg reflectors rectangular beams (added August 1997) ∞ brakes Bragg mirrors reflectors ∞ boxes ÙÆ (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS SN GS Bragg reflectors LISTED BELOW) brakes (for arresting motion) Bragg angle RT box beams brakes (forming or bending) Bragg gratings DBR lasers boxes (containers) brakes (for arresting motion) gallium arsenides boxes (containers) decelerators mirrors  $RT \infty boxes$ dragulators semiconductor lasers  $\infty$  buckets brakes (for arresting motion) cases (containers) braided composites . aerodvnamic brakes ∞ containers . . ballutes (added November 1992) packages . . drag chutes composite materials fiber composites **BPSK** . braided composites binary phase shift keying . . wing flaps USE carbon fiber reinforced plastics ... leading edge flaps epoxy matrix composites leading edge slats brackets anchors (fasteners) graphite-epoxy composites . . . trailing edge flaps fasteners reinforcing fibers . . vortex flaps fixtures three dimensional composites . aircraft brakes woven composites . . split flaps holders .. wing flaps mounting braille ... leading edge flaps DEF A system of writing that uses characleading edge slats bradycardia ters made up of raised dots. It was named after . . . trailing edge flaps GS rates (per time) Louis Braille . . . vortex flaps . heart rate . bradycardia blindness . wheel brakes embossing abort apparatus signs and symptoms bradycardia antiskid devices RT heart diseases brain ∞ arresters arresting gear anatomy Bragg angle . nervous system brakes The angle between the incident beam . . central nervous system braking and the lattice planes considered. cylindrical chambers . . . brain drag devices GS geometry . . . . brain stem . Euclidean geometry cerebellum flaps (control surfaces) landing gear nose wheels . . angles (geometry) . . . . cerebral ventricles . Bragg angle . . . . cerebrum Bragg gratings parachutes . . . . . cerebral cortex Bragg reflectors crystallography retarders (devices) . occipital lobes . . . diencephalon thrust reversal .... hypothalamus DBR lasers towed bodies

. . . . . pineal gland

vehicle wheels

diffraction

wheels brakes (forming or bending) RT ∞ brakes

metal working

braking

RTbrakes (for arresting motion) deceleration eddy currents retarders (devices) retarding thrust reversal

branching (mathematics)

DEF The appearance of a new solution of a mathematical equation at some critical value of a parameter, as a result of which there may be more than one solution (different branches) of the equation. Used for bifurcation (mathematics)

bifurcation (mathematics) GS branching (mathematics) . period doubling chaos functions (mathematics) ∞ logic

mathematical logic set theory switching theory

branching (physics)

RT bifurcation (biology) ∞ physics

brasses

GS alloys

. copper alloys . brasses

Bravais crystals

GS crystals

Bravais crystals crystal growth crystal lattices crystal structure packing density single crystals

Brayton cycle

A thermodynamic cycle consisting of two constant-pressure processes interspersed with two constant-antropy cycles. Named after George B. Brayton, American engineer.

GS cycles

thermodynamic cycles

Brayton cycle RT gas turbine engines gas turbines

Rankine cycle solar dynamic power systems

Brazil GS

nations

Brazil

Amazon region (South America) Brazilian space program South America

Brazilian space program

The space program of Brazil which is under the jurisdiction of the Instituto de Pesquisas Espaciais (INPE).

programs

space programs

. Brazilian space program

RT Brazil

brazing

GS welding

. fusion welding . . gas welding

... brazing

. . . low temperature brazing

RT fluxes ∞ joining metal bonding sealing

solderina

ultrasonic soldering

Brazzaville

USE Congo (Brazzaville)

breadboard models

DEF Assemblies of preliminary circuits or parts used to prove the feasibility of a device, circuit, system, or principle without regard to the final configuration or packaging of the parts.

models

. breadboard models

RT circuits printed circuits product development prototypes

breakaway

USE boundary layer separation

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT TERMS LISTED BELOW) classifications electrical faults failure gaps

metal working system failures

breakers (electric)

USE circuit breakers

breaking

RT destruction fragmentation ∞ separation

breakup (spacecraft)

USE spacecraft breakup

breakwaters

DEF Offshore structures (such as moles, walls, or jetties) that by breaking the force of waves, protect harbors, anchorages, beaches, or shore areas. Used for jetties and sea walls.

UF jetties sea walls RT concrete structures

harbors littoral drift

littoral transport oceanography structural design

∞ structures

underwater engineering underwater structures water waves

∞ waves

breast

(added August 2004)

DEF In humans, one of the paired regions in the anterior portion of the thorax.

GS anatomy . chest

. . breast

. . mammary glands

cancer

∞ breathing

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

argon-oxygen atmospheres breathing apparatus

breathing vibration

emergency breathing techniques expiration

helium-oxygen atmospheres high altitude breathing hypercapnia

hyperpnea oxygen breathing respiration respiratory reflexes

breathing apparatus

breathing apparatus

. oxvaen masks

. underwater breathing apparatus

RT ∞ breathing equipment fire fighting life support systems oxygen supply equipment portable life support systems respirators

breathing vibration

vibration

. structural vibration

. . breathing vibration

bending vibration ∞ breathing exhausting missile vibration venting

breccia

GS rocks breccia ataxite igneous rocks regolith sedimentary rocks soils

breeder reactors

GS nuclear reactors

. breeder reactors

Experimental Breeder Reactor 1

. Experimental Breeder Reactor 2

. . light water breeder reactors . liquid metal fast breeder reactors

RT Enrico Fermi atomic power plant nuclear power reactors

breeding (reproduction)

RT fertility genetics heredity

reproduction (biology)

Brequet 940 aircraft

GS Breguet aircraft

. Brequet 940 aircraft monoplanes

. Breguet 940 aircraft

research vehicles

. research aircraft
. . Breguet 940 aircraft

V/STOL aircraft

. short takeoff aircraft

. . Breguet 940 aircraft  $RT \, \infty \, aircraft$ 

Breguet 941 aircraft

Breguet aircraft
. Breguet 941 aircraft jet aircraft

. turboprop aircraft
. . Breguet 941 aircraft monoplanes

. Breguet 941 aircraft passenger aircraft

Breguet 941 aircraft transport aircraft

. cargo aircraft

Breguet 941 aircraft V/STOL aircraft . short takeoff aircraft

. Breguet 941 aircraft

RT ∞ aircraft

Breguet 1150 aircraft

Atlantic aircraft

antisubmarine warfare aircraft . Breguet 1150 aircraft

attack aircraft Breguet 1150 aircraft

Breguet aircraft Breguet 1150 aircraft

jet aircraft . turboprop aircraft

. Breguet 1150 aircraft monoplanes

. Breguet 1150 aircraft reconnaissance aircraft

. Breguet 1150 aircraft

RT ∞ aircraft . . sky brightness traveling wave tubes bistatic reflectivity **Brequet aircraft** brightness distribution **Brillouin zones** GS Breguet aircraft color GS regions . Breguet 940 aircraft . Breguet 941 aircraft dimming Brillouin zones emissivity band structure of solids Breguet 1150 aircraft flux (rate) conduction bands RT ∞ aircraft glare crystal lattices Jaguar aircraft human factors engineering Fermi surfaces illuminance free electrons bremsstrahlung illuminating DEF Electromagnetic radiation produced by incandescence the rapid change in the velocity of an electron or another fast, charged particle as it approaches an atomic nucleus and is deflected by it. In German it means braking radiation. **Brillouin-Wigner equation** ∞ intensity RT ∞ equations light (visible radiation) limb brightening brines luminance Water saturated or strongly impregelectromagnetic radiation bremsstrahlung GS luminescence nated with common salt. luminosity RT coolants Cerenkov radiation diffraction radiation luminous intensity refrigerants luster salinity electron photon cascades radiance salt baths electron radiation radiant flux density salt beds far ultraviolet radiation reflectance sea water gamma ray bursts stellar luminosity gamma rays visibility Brinkman number nuclear radiation vision (added July 2001) relativistic plasmas A dimensionless number expressing synchrotron radiation the ratio of viscous heating to convective heat transfer rates through the flow boundary.

GS dimensionless numbers brightness discrimination x rays discrimination sensory discrimination Brewster angle Brinkman number . brightness discrimination GS geometry RT ∞ illumination ratios Euclidean geometry . Brinkman number channel flow visual perception . . angles (geometry) . . Brewster angle convective heat transfer polarization characteristics brightness distribution Couette flow reflection DEF The statistical distribution based on Nusselt number refractivity brightness, or the distribution of brightness over viscous flow the surface of an object. wall temperature bricks distribution (property) Solid masonry units of clay or shale, brightness distribution briquets usually formed into a rectangular prism while electromagnetic properties RT blanks plastic and burned or fired in a kiln. Bricks are . optical properties pellets ceramic products. brightness distribution tablets GS masonry statistical distributions bricks brightness distribution astrophysics Bristol-Siddeley BS 53 engine cements black body radiation Pegasus engine ceramics brightness GS engines ∞ construction materials brightness temperature . air breathing engines mortars (material) . . gas turbine engines ∞ distribution . . . jet engines galactic radiation ∞ bridges . . . . turbojet engines photography (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) bridges (landforms) radiant flux density .... turbofan engines radio astronomy ..... Bristol-Siddeley BS 53 solar granulation engine stellar luminosity . internal combustion engines bridges (structures) . . gas turbine engines electric bridges . . . jet engines liquid bridges brightness temperature . . . . turbojet engines DEF In astrophysics, the temperature of a . . . . turbofan engines black body radiating the same amount of energy per unit area at the wavelengths under consideration as the observed body. The temperature of a nonblack body determined by measurement bridges (landforms) ..... Bristol-Siddeley BS 53 landforms engine bridges (landforms) . turbine engines RT ∞ bridges . . gas turbine engines geology with an optical pyrometer. . . . jet engines ∞ ridges GS temperature .... turbojet engines brightness temperature . . . . turbofan engines . . . . . Bristol-Siddeley BS 53 bridges (structures) astrophysics RT ∞ bridges black body radiation engine construction brightness distribution RT P-1127 aircraft construction industry limb brightening crossings meteorology crossovers Bristol-Siddeley Olympus 593 engine photography highways GS engines radio astronomy ramps (structures) . air breathing engines temperature measurement ∞ structures . . gas turbine engines ... jet engines towers **Brillouin effect** . . . . turbojet engines RT ∞ effects .... Bristol-Siddeley Olympus Bridgman method frequency shift crystal growth 593 engine light scattering ∞ methodology . internal combustion engines monochromatic radiation . . gas turbine engines single crystals ... jet engines brightness **Brillouin flow** .... turbojet engines DEF The attribute of visual perception in electric current . . . . Bristol-Siddeley Olympus GS

Brillouin flow

beam currents

electron beams

electron optics

∞ flow

593 engine
. turbine engines
. . gas turbine engines

. . . jet engines

. . . . turbojet engines

more or less light.

accordance with which an area appears to emit

GS electromagnetic properties

. optical properties

brightness

Bristol-Siddeley Olympus 593 engine	frequencies wideband communication	ammonium bromides cesium bromides
000 0.1g0	massana semmameanen	chromium bromides
Bristol-Siddeley Viper engine	broadcasting	dibromides
GS engines	UF radio broadcasting	hydrobromic acid
. air breathing engines gas turbine engines	GS telecommunication . broadcasting	hydrobromides magnesium bromides
jet engines	RT communication networks	potassium bromides
turbojet engines	direct broadcast satellites	silver bromides
Bristol-Siddeley Viper engine	radio communication	sodium bromides
. internal combustion engines	radio equipment	strontium bromides
gas turbine engines jet engines	radio signals radio transmission	halon
turbojet engines	Symphonie satellites	RT ∞ chemical compounds halocarbons
Bristol-Siddeley Viper engine	transmission	polybrominated biphenyls
. turbine engines	Voice of America	
gas turbine engines	to the comment.	bromine isotopes
jet engines	broken symmetry DEF Phenomena where a loss of symmetry	UF bromine 82 bromine 87
turbojet engines Bristol-Siddeley Viper engine	is present such as in piezoelectricity. Used for	GS chemical elements
znoto: etadolo, mpor etigine	symmetry breaking.	. halogens
British Aircraft Corp aircraft	UF symmetry breaking	bromine
USE BAC aircraft	GS symmetry	bromine isotopes
British Columbia	. broken symmetry CP violation	. nuclides isotopes
GS nations	RT grand unified theory	bromine isotopes
. Canada	Higgs bosons	
British Columbia	mathematical models	bronchi
British Guinea	supergravity	UF <i>bronchial tubes</i> GS anatomy
USE <b>Guyana</b>	supersymmetry theoretical physics	GS anatomy . respiratory system
ool dayana	theoretical physics	bronchi
British Honduras	bromates	RT lungs
USE <b>Belize</b>	GS halogen compounds	trachea
brittle materials	. bromine compounds	∞ tubes
RT cleavage	<b>bromates</b> RT ∞ oxygen compounds	bronchial tubes
cracking (fracturing)	TTI ∞ oxygen compounds	USE bronchi
embrittlement	bromides	
fracture strength	GS halogen compounds	bronzes
granular materials hardness	. bromine compounds bromides	GS alloys . copper alloys
impact strength	ammonium bromides	bronzes
∞ materials	cesium bromides	
porous materials	chromium bromides	Brorsen-Metcalf comet
hadde disable to a	dibromides	(added May 1991) GS celestial bodies
brittle-ductile transition USE ductile-brittle transition	hydrobromic acid hydrobromides	. comets
de desire sinne nanonion	magnesium bromides	Brorsen-Metcalf comet
brittleness	potassium bromides	RT solar system
GS mechanical properties	silver bromides	broths
. <b>brittleness</b> RT Charpy impact test	sodium bromides	RT ∞ food
cleavage	strontium bromides . halides	nutrition
cold hardening	bromides	hyanya duyani atawa
crack closure	ammonium bromides	brown dwarf stars (added March 1989)
crack initiation	cesium bromides	GS celestial bodies
crack propagation cracking (fracturing)	chromium bromides dibromides	. stars
ductile-brittle transition	hydrobromic acid	brown dwarf stars
ductility	hydrobromides	RT companion stars cool stars
embrittlement	magnesium bromides	
tra ata arra alar		
fracture etrangth	potassium bromides	dwarf stars massive compact halo objects
fracture strength	potassium bromides silver bromides	dwarf stars massive compact halo objects protostars
	potassium bromides silver bromides sodium bromides	dwarf stars massive compact halo objects
fracture strength fracturing hardness impact strength	potassium bromides silver bromides	dwarf stars massive compact halo objects protostars stellar evolution
fracture strength fracturing hardness impact strength impact tests	potassium bromides silver bromides sodium bromides strontium bromides RT salt beds	dwarf stars massive compact halo objects protostars
fracture strength fracturing hardness impact strength impact tests notch strength	potassium bromides silver bromides sodium bromides strontium bromides RT salt beds bromination	dwarf stars massive compact halo objects protostars stellar evolution  brown wave effect RT annual variations botany
fracture strength fracturing hardness impact strength impact tests notch strength notch tests	potassium bromides silver bromides sodium bromides strontium bromides RT salt beds  bromination GS chemical reactions	dwarf stars massive compact halo objects protostars stellar evolution  brown wave effect RT annual variations botany chlorophylls
fracture strength fracturing hardness impact strength impact tests notch strength	potassium bromides silver bromides sodium bromides strontium bromides RT salt beds bromination	dwarf stars massive compact halo objects protostars stellar evolution  brown wave effect RT annual variations botany chlorophylls ∞ effects
fracture strength fracturing hardness impact strength impact tests notch strength notch tests toughness weldability	potassium bromides silver bromides sodium bromides strontium bromides RT salt beds  bromination GS chemical reactions . halogenation bromination	dwarf stars massive compact halo objects protostars stellar evolution  brown wave effect RT annual variations botany chlorophylls ∞ effects foliage
fracture strength fracturing hardness impact strength impact tests notch strength notch tests toughness weldability  broadband	potassium bromides silver bromides sodium bromides strontium bromides RT salt beds  bromination GS chemical reactions . halogenation bromination  bromine	dwarf stars massive compact halo objects protostars stellar evolution  brown wave effect RT annual variations botany chlorophylls ∞ effects foliage leaves
fracture strength fracturing hardness impact strength impact tests notch strength notch tests toughness weldability  broadband UF wideband	potassium bromides silver bromides sodium bromides strontium bromides RT salt beds  bromination GS chemical reactions . halogenation bromination  bromine GS chemical elements	dwarf stars massive compact halo objects protostars stellar evolution  brown wave effect RT annual variations botany chlorophylls ∞ effects foliage leaves  Brownian movements
fracture strength fracturing hardness impact strength impact tests notch strength notch tests toughness weldability  broadband	potassium bromides silver bromides sodium bromides strontium bromides RT salt beds  bromination GS chemical reactions . halogenation bromination  bromine	dwarf stars massive compact halo objects protostars stellar evolution  brown wave effect RT annual variations botany chlorophylls ∞ effects foliage leaves  Brownian movements RT colloids
fracture strength fracturing hardness impact strength impact tests notch strength notch tests toughness weldability  broadband UF wideband GS bandwidth broadband frequencies	potassium bromides silver bromides sodium bromides strontium bromides RT salt beds  bromination GS chemical reactions . halogenation bromine GS chemical elements . halogens	dwarf stars massive compact halo objects protostars stellar evolution  brown wave effect RT annual variations botany chlorophylls ∞ effects foliage leaves  Brownian movements
fracture strength fracturing hardness impact strength impact tests notch strength notch tests toughness weldability  broadband UF wideband GS bandwidth broadband frequencies broadband	potassium bromides silver bromides sodium bromides strontium bromides RT salt beds  bromination GS chemical reactions . halogenation bromination  bromine GS chemical elements . halogens bromine bromine bromine	dwarf stars massive compact halo objects protostars stellar evolution  brown wave effect RT annual variations botany chlorophylls ∞ effects foliage leaves  Brownian movements RT colloids dispersions Einstein equations emulsions
fracture strength fracturing hardness impact strength impact tests notch strength notch tests toughness weldability  broadband UF wideband GS bandwidth . broadband frequencies . broadband RT asynchronous transfer mode	potassium bromides silver bromides sodium bromides strontium bromides RT salt beds  bromination GS chemical reactions . halogenation bromine GS chemical elements . halogens bromine bromine bromine sotopes	dwarf stars massive compact halo objects protostars stellar evolution  brown wave effect RT annual variations botany chlorophylls ∞ effects foliage leaves  Brownian movements RT colloids dispersions Einstein equations emulsions Fokker-Planck equation
fracture strength fracturing hardness impact strength impact tests notch strength notch tests toughness weldability  broadband UF wideband GS bandwidth broadband frequencies broadband  RT asynchronous transfer mode bands	potassium bromides silver bromides sodium bromides strontium bromides RT salt beds  bromination GS chemical reactions . halogenation bromination  bromine GS chemical elements . halogens bromine bromine bromine	dwarf stars massive compact halo objects protostars stellar evolution  brown wave effect RT annual variations botany chlorophylls ∞ effects foliage leaves  Brownian movements RT colloids dispersions Einstein equations emulsions Fokker-Planck equation ∞ motion
fracture strength fracturing hardness impact strength impact tests notch strength notch tests toughness weldability  broadband UF wideband GS bandwidth . broadband frequencies . broadband RT asynchronous transfer mode	potassium bromides silver bromides sodium bromides strontium bromides RT salt beds  bromination GS chemical reactions . halogenation bromine GS chemical elements . halogens bromine bromine bromine sotopes	dwarf stars massive compact halo objects protostars stellar evolution  brown wave effect RT annual variations botany chlorophylls ∞ effects foliage leaves  Brownian movements RT colloids dispersions Einstein equations emulsions Fokker-Planck equation
fracture strength fracturing hardness impact strength impact tests notch strength notch tests toughness weldability  broadband UF wideband GS bandwidth broadband frequencies broadband  RT asynchronous transfer mode ∞ bands frequency response log periodic antennas narrowband	potassium bromides silver bromides sodium bromides strontium bromides RT salt beds  bromination GS chemical reactions . halogenation bromination  bromine GS chemical elements . halogens bromine bromine bromine sotopes	dwarf stars massive compact halo objects protostars stellar evolution  brown wave effect RT annual variations botany chlorophylls ∞ effects foliage leaves  Brownian movements RT colloids dispersions Einstein equations emulsions Fokker-Planck equation ∞ motion
fracture strength fracturing hardness impact strength impact tests notch strength notch tests toughness weldability  broadband UF wideband GS bandwidth broadband frequencies broadband  RT asynchronous transfer mode  ⇒ bands frequency response log periodic antennas	potassium bromides silver bromides sodium bromides strontium bromides strontium bromides RT salt beds  bromination GS chemical reactions . halogenation bromine GS chemical elements . halogens bromine bromine bromine sotopes  bromine 82 USE bromine isotopes	dwarf stars massive compact halo objects protostars stellar evolution  brown wave effect RT annual variations botany chlorophylls ∞ effects foliage leaves  Brownian movements RT colloids dispersions Einstein equations emulsions Fokker-Planck equation ∞ motion ∞ suspensions
fracture strength fracturing hardness impact strength impact tests notch strength notch tests toughness weldability  broadband UF wideband GS bandwidth broadband frequencies broadband  RT asynchronous transfer mode bands frequency response log periodic antennas narrowband spiral antennas	potassium bromides silver bromides sodium bromides strontium bromides RT salt beds  bromination GS chemical reactions . halogenation bromination  bromine GS chemical elements . halogens bromine bromine bromine isotopes  bromine 82 USE bromine isotopes  bromine 87 USE bromine isotopes  bromine compounds	dwarf stars massive compact halo objects protostars stellar evolution  brown wave effect RT annual variations botany chlorophylls ∞ effects foliage leaves  Brownian movements RT colloids dispersions Einstein equations emulsions Fokker-Planck equation ∞ motion ∞ suspensions  Bruceton test USE statistical tests
fracture strength fracturing hardness impact strength impact tests notch strength notch tests toughness weldability  broadband UF wideband GS bandwidth broadband frequencies broadband  RT asynchronous transfer mode ∞ bands frequency response log periodic antennas narrowband	potassium bromides silver bromides sodium bromides strontium bromides strontium bromides RT salt beds  bromination GS chemical reactions . halogenation bromine GS chemical elements . halogens bromine bromine bromine sotopes  bromine 82 USE bromine isotopes	dwarf stars massive compact halo objects protostars stellar evolution  brown wave effect RT annual variations botany chlorophylls ∞ effects foliage leaves  Brownian movements RT colloids dispersions Einstein equations emulsions Fokker-Planck equation ∞ motion ∞ suspensions  Bruceton test
fracture strength fracturing hardness impact strength impact tests notch strength notch tests toughness weldability  broadband UF wideband GS bandwidth broadband frequencies broadband  RT asynchronous transfer mode  bands frequency response log periodic antennas narrowband spiral antennas  broadband amplifiers	potassium bromides silver bromides sodium bromides strontium bromides BT salt beds  bromination GS chemical reactions . halogenation bromination  bromine GS chemical elements . halogens bromine bromine bromine isotopes  bromine 82 USE bromine isotopes  bromine 87 USE bromine isotopes  bromine compounds GS halogen compounds	dwarf stars massive compact halo objects protostars stellar evolution  brown wave effect RT annual variations botany chlorophylls ∞ effects foliage leaves  Brownian movements RT colloids dispersions Einstein equations emulsions Fokker-Planck equation ∞ motion ∞ suspensions  Bruceton test USE statistical tests  brucite

magnesium compounds strontium oxides semiconductors (materials) . brucite superconducting films ∞ buckets minerals (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) . brucite SN **BSX** GS explosives Bruderheim meteorite boxes (containers) BSX GS celestial bodies ∞ capsules nitromethane . meteorites drums (containers) . . stony meteorites trays bubble chambers . . . chondrites turbomachine blades Devices used for the detection and . . . . Bruderheim meteorite study of elementary particles and nuclear reactions. Charged particles from an accelerator are buckeye aircraft Brunei USE T-2 aircraft introduced into a superheated liquid, each forming a trail of bubbles along its path.

GS ionization chambers GS nations Brunei buckling RT Asia DEF An unstable state of equilibrium of a . bubble chambers thin-walled body stemming from compressive **Brunt-Vaisala frequency** RT ∞ chambers stresses in walls. The lateral deflection of a The frequency at which an air parcel cloud chambers thin-walled body resulting from such instability. will oscillate when subjected to an infinitesimal elementary particles GS buckling peturbation in a stably stratified atmosphere. particle trajectories . creep buckling GS constraints radiation counters . elastic buckling . meteorological parameters spark chambers . Euler buckling Brunt-Vaisala frequency . thermal buckling frequencies bubble memory devices RT bending Brunt-Vaisala frequency GS computer components collapse air currents . computer storage devices compression loads air flow deformation . . bubble memory devices air masses magnetic storage distortion atmospheric circulation bubble memory devices Donnell equations atmospheric physics binary data failure atmospheric stratification core storage failure modes oscillations data processing flange wrinkling data recorders heaving brush (botany) data recording kink bands scrubs (botany) data storage kinking GS plants (botany) magnetic cores ∞ ridges brush (botany) magnetic domains shell stability . chaparral magnetic recording stresses RT botany magnetic switching structural failure defoliation structural strain Earth resources temperature inversions bubble technique quavule torsion GS technologies herbicides twisting bubble technique warpage brush seals data recorders wrinkling electronic equipment (added July 1991) flight instruments seals (stoppers) GS buckminsterfullerene ∞ instruments brush seals (added August 1991) magnetic domains RT leakage A form of solid carbon consisting of a onboard equipment somewhat disordered hexagonal close packing recording instruments brushes of soccer-ball-shaped C60 molecules. The molsemiconductor devices brushes GS ecules are extremely hard pseudospherical molbrushes (electrical contacts) solid state devices ecules bonded by weak Van der Waals forces. electric contacts spacecraft instruments fullerenes electric generators . buckminsterfullerene electric motors bubbles carbon DEF Internal voids or trapped globules of air graphite brushes (electrical contacts) or other gas. molecules DEF Conductive metal or carbon blocks used to make sliding electrical contact with a aeration polyatomic molecules cavitation flow polyhedrons moving part as in an electric motor. Coanda effect GS brushes effervescence budgeting brushes (electrical contacts) foams accounting RT electric contacts metal foams allocations electric generators thermocapillary migration appropriations electric motors wakes budgets cost analysis **Bryophytes Buccaneer aircraft** cost effectiveness liverworts UF B-103 aircraft cost estimates mosses Blackburn B-103 aircraft economic factors plants (botany) GS attack aircraft estimating Bryophytes **Buccaneer aircraft** financial management Hawker Siddeley aircraft forecasting **BSCCO** superconductors Buccaneer aircraft grants (added March 1993) jet aircraft income Bi-Sr-Ca-Cu-O superconductors **Buccaneer aircraft** mission planning chalcogenides monoplanes planning . oxides Buccaneer aircraft procurement management . . metal oxides project planning RT ∞ aircraft . . . mixed oxides Harrier aircraft revenue .... BSCCO superconductors conductors ∞ budgets . superconductors (materials) bucket brigade devices (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS . . high temperature superconductors electronic equipment BSCCO superconductors . solid state devices LISTED BELOW)
budgeting
Earth radiation budget bismuth oxides . . semiconductor devices

. . . charge transfer devices

RT charge coupled devices

... bucket brigade devices

energy budgets

engineering management

calcium oxides copper oxides

cuprates

styrenes

	foreign policy		syringes	hunohi	na .
	heat budget			bunchi	
	procurement management	Bulgari		GS	bunching
	research management	GS	nations		. electron bunching
D " '			. Bulgaria	RT	queueing theory
Buffalo a		RT	Black Sea		space charge
USE	DHC 5 aircraft		Europe		velocity modulation
			·		
buffer s		bulging	1	bundle	drawing
	In computer operations, storage used	ĞS Ì	metal working	RT •	∞ drawing
to comp	ensate for a difference in rate of flow or		. bulging		metal drawing
time of	occurrence when transferring informa-	RT	deep drawing		· ·
tion fron	n one device to another.	111	dimpling	bundle	s
GS	computer components		explosive forming	RT o	∞ containers
	. computer storage devices		1 3		packages
	. buffer storage		forging		umbilical connectors
RT ~	buffers		hot working		wiring
111 %	core storage		magnetic forming		wiiiig
	9		metal drawing	humbau	a (final)
	data storage		stretch forming	bunker	
~	storage			GS	tanks (containers)
hffa.va		bulk ac	oustic wave devices		bunkers (fuel)
buffers			Acoustooptic devices utilizing bulk	RT	fuel systems
SN	(USE OF A MORE SPECIFIC TERM IS		waves at megahertz frequencies in thin		
	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		nsducers. Used for B-A-W devices.	buoyan	icy
RT	buffer storage		B-A-W devices	RT	acoustic levitation
	buffers (chemistry)				aerostatics
	bullets (cheffishry)	HI 4	∞ devices		ballast (mass)
hufforo	(ahamiatru)		surface acoustic wave devices		buoyancy-driven flow
	(chemistry)		transducers		density (mass/volume)
	bases (chemical)				floating
~	buffers	bulk m	odulus		
	chemical equilibrium	DEF	The reciprocal of the coefficient of		gas density
	neutralizers		ssibility.		levitation
	pH	GS	mechanical properties		mechanical properties
		ao	. bulk modulus		neutral buoyancy simulation
buffetin	g	RT	compressibility	0	physical properties
DEF	The beating of an aerodynamic struc-	n i			porosity
ture or s	surfaces by unsteady flow, gusts, etc.;		density (mass/volume)		Rayleigh number
	gular shaking or oscillation of a vehicle				voids
	ent owing to turbulent air or separated	bulkhe			
flow.	one owing to tarbaione air or coparatou	DEF	Steep or vertical structures supporting	buovan	cy-driven flow
RT	aaradynamia atability	natural	or artificial embankments.		ed June 2002)
пі	aerodynamic stability	GS	walls	•	Convective fluid flow induced by buoy
	aircraft stability		. bulkheads	ant forc	
	boundary layer control	RT <	∞ barriers		fluid flow
	compressibility effects		end plates	do	
	flight characteristics		hulls (structures)		. convective flow
	flutter		partitions (structures)		buoyancy-driven flow
	oscillating flow			RT	buoyancy
	shaking		reinforcement (structures)		convection
	spacecraft motion		thick walls		crystal growth
	spacecraft stability		thin walls		Rayleigh-Benard convection
	Strouhal number				
		Bullpu	o missiles	buoys	
	turbulence effects	GS	missiles	RT	beacons
	vortex avoidance		. air to surface missiles		compasses
			Bullpup missiles		
	materials	RT	LR-62-RM-2 engine		floats
USE	construction materials		ETT OF THAT E CHIGHIC	c	∞ markers
		Dominio			navigation aids
building	structures		ebee project		ocean data acquisitions systems
USE	buildings	GS	missiles		
			. Bumblebee project	Buran	space shuttle
building	ąs		programs	(add	ed August 1989)
DEF	Structures erected and framed of com-		. projects	GS	manned spacecraft
ponent	structural members designed for the		Bumblebee project		. space shuttles
	, shelter or support of persons, animals,	RT	Talos missile		Buran space shuttle
	erty. Used for building structures.		tartar missile		reentry vehicles
UF	building structures		terrier missile		. recoverable spacecraft
RT	architecture		Typhon weapon system		reusable spacecraft
1111	basements		71		space shuttles
		bumpe	re		
	ceilings (architecture)				Buran space shuttle
	chimneys	RT			soft landing spacecraft
	construction		meteoroid protection		. Buran space shuttle
	construction industry		meteoroids		Soviet spacecraft
	floors		protectors		. Buran space shuttle
	greenhouses			RT	aerospace planes
	hangars	bumpy	toruses		U.S.S.R. space program
	indoor air pollution	DEF	The shapes (doughnuts) of certain		1 1 3
	inflatable structures	plasma		hureau	s (organizations)
	missile silos	RT	fusion reactors		institutions
			plasma control	45	. bureaus (organizations)
	museums		•		
	roofs		plasma heating		organizations
	shelters		tokamak devices		. federations
	solar houses		toroidal plasmas		bureaus (organizations)
	stairways			RT	programs
	Starsite program	Buna (	trademark)		projects
	walls	GS`	elastomers		teams
			. rubber		university program
bulbs			synthetic rubbers		J I <del>J</del>
RT	luminaires		Buna (trademark)	burette	s
	plant roots	RT	butadiene	GS	measuring instruments
	piant roots	пі	DUILLUIDIO	as	mododing modulifelia

pressure vessels

federal budgets

 $\infty$ 

# **Burger equation**

	. burettes		velocity coupling	RT	electric wire
RT	glassware	h	*i-ma		flat conductors
	pipettes tubes	burning UF	firing time		power lines power transmission
	tubes	GS	time		power transmission
Burger	equation		. burning time	bushing	gs
	analysis (mathematics)	RT	combustion	RT	bearings
	real variables		combustion efficiency		inserts
	differential equations		firing (igniting)		linings
	partial differential equations		flight optimization		shafts (machine elements)
RT	Burger equation continuum mechanics		flight time rocket engines		spacers
	equations		rocket firing	busines	s management
	Navier-Stokes equation		testing time	USE	industrial management
	shock wave propagation		thrust		
			windows (intervals)	butadie	
Burkina				UF	vinyl ethylene
UF	Upper Volta	burnout		GS	organic compounds
GS	nations	SN	(LIMITED TO TERMINATION OF COMBUSTION IN A ROCKET ENGINE		hydrocarbons     aliphatic hydrocarbons
БТ	. Burkina		BECAUSE OF EXHAUSTION OF THE		dienes
RT	Africa	חדר	PROPELLANT)		butadiene
Burma		DEF rocket of	The termination of combustion in a engine because of exhaustion of the	RT	Buna (trademark)
	nations	propella			hydrocarbon fuels
ao	. Burma	RT	booster rocket engines		polybutadiene
RT	Asia	• • • •	burning rate		
			combustion	butaned	
burners		~	cut-off		ed April 2004)
RT	afterburning		erosive burning	USE	succinonitrile
	chemical reactors		extinguishing	butanes	5
	combustion chambers		solid propellant rocket engines	UF	isobutane
	diffusion welding		thrust termination	GS	organic compounds
	fuel injection	burns (i	niurios)		hydrocarbons
	furnaces incinerators		injuries)		aliphatic hydrocarbons
	waste energy utilization	ao	. burns (injuries)		alkanes
	waste energy atmization	RT	crash injuries	DT	butanes
Burnett	equations		fires	RT	petroleum products
	nd March 1996)		laser damage	butenes	
SN	(These equations are frequently associated		lesions	UF	butylene
	with models of hypersonic flow and shock waves.)		radiation injuries		isobutylene
GS	equations of motion			GS	organic compounds
	. kinetic equations		ough (failure)		hydrocarbons
	hydrodynamic equations	GS	failure . burnthrough (failure)		aliphatic hydrocarbons
	Burnett equations	RT	ablation		alkenes
	flow equations		damage		butenes
БТ	. Burnett equations		melting	butt joi	nte
RT	Boltzmann transport equation		perforating	GS	joints (junctions)
	Chapman-Enskog theory computational fluid dynamics		·	0.0	. butt joints
	hypersonic flow	burst te		RT	lap joints
	shock waves	GS	destructive tests		metal joints
		ОТ	. burst tests		riveted joints
burn-in		RT	containment failure analysis		soldered joints
RT	failure		failure analysis fracture mechanics		welded joints
	failure analysis		fracture strength	buttorfl	v valvos
	integrated circuits	~	materials tests		y valves valves
	quality control		pressure vessels	ao	. butterfly valves
			•		dampers (valves)
burning		bursts			
USE	combustion	GS	bursts	buttes	
burning	nrocess		. gamma ray bursts	GS	landforms
	combustion		. radio bursts		. terraces (landforms)
002	Compaction		solar radio bursts type 2 bursts		plateaus
burning	rate		type 3 bursts		mesas <b>buttes</b>
	The velocity at which a solid propellant		type 4 bursts		buttes
in a rock	et is consumed. The symbol is r.			∞ buttons	5
GS	rates (per time)	RT ∝	disturbances	SN	(USE OF A MORE SPECIFIC TERM IS
	. burning rate		emission		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)
	burnout		explosions	RT	manual control
	combustion		fragmentation		
	combustion control combustion efficiency		implosions	butylene	
	combustion stability		rupturing	USE	butenes
	explosives	bursts (	communication)	hutulan	a ovides
	flame propagation		ed December 1996)		e oxides tetrahydrofuran
	flammability		packets (communication)	OOL	yaroraran
	fuel consumption		. ,	butyric	acid
	fuel-air ratio	Burund		GS	acids
	fuels	UF	Ruanda-Urundi		. butyric acid
	pressure dependence	GS	nations	RT	fermentation
	propellant consumption	DT	. Burundi	DIAZ	antiquestions
	propellant grains propellants	RT	Africa Rwanda		onfigurations
	smoldering		rivariuu		ed April 2001) blended-wing-body configurations
	solid propellant combustion	bus cor	nductors	JUL	Dionaca wing body configurations
	solid propellant rocket engines	GS	conductors	bypass	ratio
	solid rocket propellants	-	. bus conductors	DEF	Ratio of the secondary to the primary

inlet airflows for a turbofan engine.

GS ratios
. bypass ratio

RT air intakes
engine inlets
flow geometry
hypersonic inlets
inlet airframe configurations
inlet flow

inlet nozzles intake systems nose inlets side inlets supersonic inlets

bypasses
UF shunts
RT diverters

relief valves

by-products

RT materials recovery products reaction products wastes

C (programming language)	evacuating (transportation)	RT ∞ aircraft
(added July 1988)		0.54 - 1 0
GS languages	C-15 aircraft	<b>C-54 aircraft</b> UF <i>R5D aircraft</i>
. programming languages high level languages	UF YC-15 aircraft	Skymaster aircraft
C (programming language)	GS transport aircraft	GS McDonnell Douglas aircraft
RT C++ (programming language)	. cargo aircraft <b>C-15 aircraft</b>	. Douglas aircraft
compilers	V/STOL aircraft	C-54 aircraft
computer programming	. short takeoff aircraft	monoplanes
expert systems	C-15 aircraft	. <b>C-54 aircraft</b> transport aircraft
C band	RT ∞ aircraft	. cargo aircraft
SN (3. 9 TO 6. 2 GHZ)		C-54 aircraft
GS frequencies	C-17 aircraft	RT ∞ aircraft
. radio frequencies	(added August 1995)	0.440
microwave frequencies	GS McDonnell Douglas aircraft . C-17 aircraft	C-118 aircraft GS McDonnell Douglas aircraft
C band RT millimeter waves	transport aircraft	. Douglas aircraft
superhigh frequencies	. cargo aircraft	C-118 aircraft
ouponingii iroquonoioo	C-17 aircraft	monoplanes
C stars	RT ∞ aircraft	. C-118 aircraft
USE carbon stars	turbofan engines	transport aircraft
0.44 - 1 0		. cargo aircraft <b>C-118 aircraft</b>
C-1A aircraft UF Trader aircraft	C-33 aircraft	RT ∞ aircraft
GS Grumman aircraft	UF Beech C-33 aircraft Debonair aircraft	
. C-1A aircraft	GS Beechcraft aircraft	C-119 aircraft
transport aircraft	. Beech 99 aircraft	GS Fairchild-Hiller aircraft
. cargo aircraft	C-33 aircraft	. C-119 aircraft
C-1A aircraft	general aviation aircraft	transport aircraft . cargo aircraft
RT ∞ aircraft	. C-33 aircraft	C-119 aircraft
∞ military aircraft	light aircraft . Beech 99 aircraft	RT ∞ aircraft
C-2 aircraft	C-33 aircraft	
UF COD aircraft	monoplanes	C-121 aircraft
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 <b>C-2 aircraft</b>	transport aircraft . cargo aircraft	GS Lockheed aircraft
monoplanes	C-33 aircraft	. C-121 aircraft
. C-2 aircraft	RT ∞ aircraft	monoplanes
transport aircraft		. <b>C-121 aircraft</b> transport aircraft
. cargo aircraft	C-35 aircraft	. cargo aircraft
C-2 aircraft	UF Beech S-35 aircraft	C-121 aircraft
RT ∞ aircraft	Bonanza aircraft	RT ∞ aircraft
C-5 aircraft	GS Beechcraft aircraft	passenger aircraft
UF Galaxy aircraft	. Beech 99 aircraft	C-123 aircraft
Lockheed C-5 aircraft	C-35 aircraft general aviation aircraft	UF Provider aircraft
GS jet aircraft	. C-35 aircraft	YC-123 aircraft
. C-5 aircraft	light aircraft	GS Fairchild-Hiller aircraft
Lockheed aircraft . <b>C-5 aircraft</b>	. Beech 99 aircraft	C-123 aircraft
transport aircraft	C-35 aircraft	monoplanes
. cargo aircraft	monoplanes	. C-123 aircraft
C-5 aircraft	passenger aircraft	transport aircraft . cargo aircraft
RT ∞ aircraft	. C-35 aircraft	C-123 aircraft
turbofan engines	transport aircraft	V/STOL aircraft
0.04	cargo aircraft	. short takeoff aircraft
C-8A augmentor wing aircraft DEF NASA's research, short haul, jet air-	C-35 aircraft	C-123 aircraft
craft.	RT ∞ aircraft	RT ∞ aircraft
GS jet aircraft		C-124 aircraft
C-8A augmentor wing aircraft	C-46 aircraft UF Commando aircraft	GS McDonnell Douglas aircraft
research vehicles	UF Commando aircraft Curtiss C-46 aircraft	. Douglas aircraft
. research aircraft	GS Curtiss-Wright aircraft	C-124 aircraft
C-8A augmentor wing aircraft transport aircraft	. C-46 aircraft	monoplanes
. short haul aircraft	monoplanes	. <b>C-124 aircraft</b> transport aircraft
C-8A augmentor wing aircraft	C-46 aircraft	. cargo aircraft
V/STOL aircraft	passenger aircraft	C-124 aircraft
. short takeoff aircraft	. <b>C-46 aircraft</b> transport aircraft	RT ∞ aircraft
C-8A augmentor wing aircraft	. cargo aircraft	0.400 1 6
RT ∞ aircraft	C-46 aircraft	C-130 aircraft UF GC-130 aircraft
C-9 aircraft	RT ∞ aircraft	Hercules aircraft
GS jet aircraft		JC-130 aircraft
. C-9 aircraft	C-47 aircraft	KC-130 aircraft
McDonnell Douglas aircraft	UF Dakota aircraft	NC-130 aircraft
. Douglas aircraft	GS McDonnell Douglas aircraft	GS jet aircraft
C-9 aircraft Mcdonnell aircraft	. Douglas aircraft	. turboprop aircraft
. Mcdonnell aircraft <b>C-9 aircraft</b>	C-47 aircraft monoplanes	<b>C-130 aircraft</b> Lockheed aircraft
transport aircraft	. <b>C-47 aircraft</b>	. C-130 aircraft
. cargo aircraft	transport aircraft	monoplanes
C-9 aircraft	. cargo aircraft	. C-130 aircraft
RT ∞ aircraft	C-47 aircraft	transport aircraft

	. cargo aircraft	. C-160 aircraft	RT geo	graphy
	C-130 aircraft	Nord aircraft	maj	
RT •	∞ aircraft	C-160 aircraft	ther	matic mapping
	T-56 engine	transport aircraft		
		. cargo aircraft	cadmium	
C-131 a		C-160 aircraft		emical elements
UF	Samaritan aircraft	RT ∞ aircraft		ndmium
GS	General Dynamics aircraft	turboprop engines		cadmium isotopes
	. C-131 aircraft	0 (	met	
	monoplanes	C++ (programming language)		ansition metals
	C-131 aircraft	(added October 1991)		cadmium
	transport aircraft	GS languages		cadmium isotopes
	. cargo aircraft	. programming languages	RT hea	avy metals
ОТ	. C-131 aircraft	. high level languages	cadmium 11	1
HI a	∞ aircraft	C++ (programming language)  RT C (programming language)		dmium isotopes
C-133 a	aircroft.	(1 3 - 3 - 3 - 3 - 7	USL Cat	illiulli isotopes
UF		Java (programming language)	cadmium al	lovs
GS	Cargomaster aircraft jet aircraft	object-oriented programming	GS allo	
us	. turboprop aircraft	cabin atmospheres		idmium alloys
	C-133 aircraft	GS controlled atmospheres		aring alloys
	McDonnell Douglas aircraft	. cabin atmospheres		3 , .
		spacecraft cabin atmospheres	cadmium ar	ntimonides
	. Douglas aircraft	RT aircraft compartments		imony compounds
	C-133 aircraft	∞ atmospheres		ntimonides
	monoplanes . C-133 aircraft	cockpits	0	cadmium antimonides
	transport aircraft	environmental control		lmium compounds
	•	oxygen supply equipment	. ca	admium antimonides
	. cargo aircraft C-133 aircraft	pressurized cabins		
DT.	∘ aircraft	space capsules	cadmium ch	nlorides
nı «		space capsules	GS cad	lmium compounds
	T-34 engine	∞ cabins	. ca	dmium chlorides
C-135 a	piroraft	SN (USE OF A MORE SPECIFIC TERM IS	halo	ogen compounds
UF	EC-135 aircraft	RECOMMENDEDCONSULT THE TERMS	. ch	lorine compounds
Oi	KC-135 aircraft	LISTED BELOW)		chlorides
		RT aircraft compartments		cadmium chlorides
GS	Stratotanker aircraft	cockpits	. ha	alides
us	Boeing aircraft . C-135 aircraft	pressurized cabins	0	chlorides
		spacecraft cabins		cadmium chlorides
	jet aircraft	aabla fayaa yaaaydaya	r	netal halides
	. C-135 aircraft	cable force recorders		cadmium chlorides
	monoplanes	GS recording instruments		
	. C-135 aircraft	. cable force recorders	cadmium co	ompounds
	transport aircraft	RT ∞ recorders	GS cad	lmium compounds
	. cargo aircraft C-135 aircraft	strain gages	. ca	dmium antimonides
DT		tensiometers	. ca	dmium chlorides
RT	Advanced Range Instrumentation	cable television	. ca	dmium fluorides
	Aircraft ∘ aircraft	(added December 1990)	. ca	dmium selenides
c	∘ aliciali turbofan aircraft	UF CATV	. ca	dmium sulfides
	turbolari aliciari	GS television systems	. ca	dmium tellurides
C-140 a	pircraft	. cable television		emical compounds
UF	Jet Star aircraft	RT closed circuit television	∞ Gro	oup 2B compounds
GS	jet aircraft	communication cables	∞ met	tal compounds
ao	. C-140 aircraft	television transmission		
	Lockheed aircraft	tolovision transmission	cadmium flu	
	. C-140 aircraft	∞ cables		lmium compounds
	monoplanes	SN (USE OF A MORE SPECIFIC TERM IS		idmium fluorides
	. C-140 aircraft	RECOMMENDEDCONSULT THE TERMS		ogen compounds
	transport aircraft	LISTED BELOW)		orine compounds
	. cargo aircraft	RT cables (ropes)		luorides
	C-140 aircraft	coaxial cables		metal fluorides
RT a	∘ aircraft	communication cables		. cadmium fluorides
	- anoran	power lines		alides
C-141 a	nircraft	submarine cables tetherlines		luorides
UF	Starlifter aircraft			metal fluorides
GS	jet aircraft	transmission lines		. cadmium fluorides
	. turbofan aircraft	cables (ropes)		netal halides
	. C-141 aircraft	RT ∞ belts		metal fluorides
	Lockheed aircraft	∞ cables		. cadmium fluorides
	. C-141 aircraft	chains		-4
	monoplanes	cordage	cadmium is	
	. C-141 aircraft	fasteners		dmium 114
	transport aircraft	reels		emical elements
	. cargo aircraft	strands		ıdmium
	C-141 aircraft			cadmium isotopes
RT a	∘ aircraft	towing		ıclides
	Kuiper Airborne Observatory	wire		sotopes
	turbofan engines	CAD (design)		cadmium isotopes
	ta.25/air originos	USE computer aided design	met	
C-142 a	aircraft	OOL Computer aided design		ansition metals
	XC-142 aircraft	cadastral mapping		admium
OOL	XO-142 dilClait	DEF Large-scale mapping for showing the		cadmium isotopes
C-160 a	nircraft	boundaries of subdivisions of land, usually with	, ,	
UF	Transall C-160 aircraft	the directions and lengths thereof and the areas		ercury tellurides
GS	Hamburger aircraft	of individual tracts, compiled for the purpose of	USE <b>me</b>	rcury cadmium tellurides
us	. C-160 aircraft	describing and recording ownership. The map	andmin -!-	skal hattarias
	jet aircraft	may also show culture, drainage, and other		ckel batteries
	jet aircraπ . turboprop aircraft	features related to the use of the land.	USE <b>nic</b>	kel cadmium batteries
	. ιωινοριορ απεταπ	reatures related to the use of the land.		
	C-160 aircraft	GS manning		Monidoe
	C-160 aircraft monoplanes	GS mapping . cadastral mapping	<b>cadmium se</b> GS cad	elenides Imium compounds

	. cadmium selenides		calcite		fluorspar
	chalcogenides		carbon compounds		metal fluorides
	. selenides cadmium selenides		. carbonates		calcium fluorides
	selenium compounds		calcium carbonates		. halides
	. selenides		minerals		fluorides
	cadmium selenides		. calcite		difluorides
		RT	aragonite		calcium fluorides
	n silver batteries		birefringence		fluorspar
USE	silver cadmium batteries				metal fluorides
cadmiu	n sulfides	calcium GS	chemical elements		calcium fluorides
GS	cadmium compounds	do	. calcium		metal halides
	cadmium sulfides		calcium isotopes		metal fluorides
	chalcogenides		metals		calcium fluorides
	. sulfides		. calcium		fluorspar
	inorganic sulfides cadmium sulfides	D.T.	calcium isotopes		
	sulfur compounds	RT	calmodulin	caicium UF	isotopes
	. sulfides		gypsum osteocalcin	GS	calcium 45 chemical elements
	inorganic sulfides		ostoodioni	do	. calcium
	cadmium sulfides	calcium	45		calcium isotopes
		USE	calcium isotopes		. nuclides
GS	n tellurides				isotopes
us	cadmium compounds . cadmium tellurides		carbonates		calcium isotopes
	chalcogenides	GS	calcium compounds . calcium carbonates		metals
	. tellurides		akermanite		. calcium calcium isotopes
	cadmium tellurides		aragonite		carciam isotopes
	tellurium compounds		calcite	calcium	metabolism
	. tellurides		chalk	GS	metabolism
	cadmium tellurides		carbon compounds		. calcium metabolism
caffeine			. carbonates	RT	bed rest
GS	bases (chemical)		calcium carbonates		calmodulin
ao	. alkaloids		akermanite		osteoporosis
	caffeine		aragonite calcite		parathyroid gland
	drugs		chalk		thyroid gland
	. stimulants	RT	bone mineral content	calcium	oxides
	caffeine	• • • • • • • • • • • • • • • • • • • •	limestone	UF	lime
	fungicides			GS	calcium compounds
	. xanthines	calcium	chlorides		. calcium oxides
	caffeine	GS	calcium compounds		akermanite
	nitrogen compounds		calcium chlorides		chalcogenides
	. alkaloids		halogen compounds		. oxides
	. alkaloids . caffeine		halogen compounds . chlorine compounds		. oxides metal oxides
	. alkaloids caffeine . xanthines		halogen compounds . chlorine compounds chlorides		. oxides metal oxides alkaline earth oxides
	. alkaloids caffeine . xanthines caffeine		halogen compounds . chlorine compounds chlorides calcium chlorides		. oxides . metal oxides . alkaline earth oxides . calcium oxides
	. alkaloids caffeine . xanthines		halogen compounds . chlorides chlorides calcium chlorides . halides	BT	oxides
	. alkaloids caffeine . xanthines caffeine organic compounds . cyclic compounds heterocyclic compounds		halogen compounds . chlorine compounds chlorides calcium chlorides	RT	. oxides . metal oxides . alkaline earth oxides . calcium oxides
	. alkaloids caffeine . xanthines caffeine organic compounds cyclic compounds heterocyclic compounds alkaloids		halogen compounds . chlorine compounds chlorides calcium chlorides . halides chlorides		oxides
	. alkaloids . caffeine . xanthines . caffeine organic compounds . cyclic compounds . heterocyclic compounds . alkaloids caffeine		halogen compounds . chlorine compounds . chlorides calcium chlorides . halides chlorides chlorides		oxides metal oxides alkaline earth oxides calcium oxides akermanite BSCCO superconductors
	. alkaloids . caffeine . xanthines . caffeine organic compounds . cyclic compounds . heterocyclic compounds alkaloids caffeine purines		halogen compounds . chlorine compounds . chlorides . calcium chlorides . halides . chlorides . calcium chlorides . metal halides . calcium chlorides . calcium chlorides	calcium	oxides metal oxide
	. alkaloids . caffeine . xanthines . caffeine organic compounds . cyclic compounds . heterocyclic compounds . alkaloids caffeine . purines xanthines		halogen compounds . chlorine compounds . chlorides calcium chlorides . halides chlorides calcium chlorides metal halides calcium chlorides compounds	<b>calcium</b> UF	oxides metal oxides alkaline earth oxides calcium oxides akermanite BSCCO superconductors  phosphates apatites calcium compounds calcium phosphates
	. alkaloids . caffeine . xanthines . caffeine organic compounds . cyclic compounds . heterocyclic compounds alkaloids caffeine purines	<b>calcium</b> GS	halogen compounds . chlorine compounds . chlorides calcium chlorides . halides . chlorides calcium chlorides calcium chlorides . metal halides calcium chlorides compounds calcium compounds	<b>calcium</b> UF	oxides metal oxide
CAI	. alkaloids . caffeine . xanthines . caffeine organic compounds . cyclic compounds . heterocyclic compounds . alkaloids caffeine . purines xanthines		halogen compounds . chlorine compounds . chlorides calcium chlorides . halides . chlorides calcium chlorides . metal halides . calcium chlorides compounds calcium compounds . calcium carbonates	<b>calcium</b> UF	oxides metal oxides apatites calcium compounds calcium phosphates phosphorus compounds phosphates
<i>CAI</i> USE	. alkaloids . caffeine . xanthines . caffeine organic compounds . cyclic compounds . heterocyclic compounds . alkaloids caffeine . purines xanthines		halogen compounds . chlorine compounds . chlorides . clacium chlorides . halides . chlorides . calcium chlorides . metal halides . calcium chlorides compounds calcium compounds . calcium carbonates . akermanite	<b>calcium</b> UF GS	oxides metal oxide
USE	. alkaloids . caffeine . xanthines . caffeine organic compounds . cyclic compounds . heterocyclic compounds . alkaloids caffeine purines xanthines caffeine computer assisted instruction		halogen compounds . chlorine compounds . chlorides . calcium chlorides . halides . chlorides . calcium chlorides . metal halides . calcium chlorides compounds calcium compounds . calcium carbonates . akermanite . aragonite	<b>calcium</b> UF	oxides metal oxide
USE caisson	. alkaloids . caffeine . xanthines . caffeine organic compounds . cyclic compounds . heterocyclic compounds alkaloids caffeine purines xanthines caffeine computer assisted instruction		halogen compounds . chlorine compounds . chlorides . clacium chlorides . halides . chlorides . calcium chlorides . metal halides . calcium chlorides compounds calcium compounds . calcium carbonates . akermanite	<b>calcium</b> UF GS	oxides metal oxide
USE	. alkaloids . caffeine . xanthines . caffeine organic compounds . cyclic compounds . heterocyclic compounds alkaloids caffeine purines xanthines caffeine  computer assisted instruction s construction		halogen compounds . chlorine compounds . chlorides calcium chlorides . halides chlorides calcium chlorides . metal halides calcium chlorides compounds calcium compounds . calcium carbonates . akermanite . aragonite . calcite	<b>calcium</b> UF GS RT	oxides metal oxide
USE caisson	. alkaloids . caffeine . xanthines . caffeine organic compounds . cyclic compounds . heterocyclic compounds alkaloids caffeine purines xanthines caffeine computer assisted instruction		halogen compounds . chlorine compounds . chlorides . calcium chlorides . halides . chlorides . calcium chlorides . metal halides . calcium chlorides compounds calcium compounds calcium carbonates . akermanite . aragonite . chalk . calcium chlorides . calcium chlorides	<b>calcium</b> UF GS RT	oxides metal oxide
USE caisson RT	. alkaloids . caffeine . xanthines . caffeine organic compounds . cyclic compounds . heterocyclic compounds alkaloids caffeine purines xanthines caffeine computer assisted instruction s construction foundations		halogen compounds . chlorine compounds . chlorides calcium chlorides . halides calcium chlorides calcium chlorides . metal halides . calcium chlorides  compounds calcium compounds . calcium carbonates . akermanite . aragonite . calcite . chalk . calcium chlorides . calcium chlorides	calcium UF GS RT calcium	oxides metal oxide
USE caisson RT	. alkaloids . caffeine . xanthines . caffeine organic compounds . cyclic compounds . heterocyclic compounds alkaloids caffeine purines xanthines caffeine  computer assisted instruction s construction		halogen compounds . chlorine compounds . chlorides calcium chlorides . halides calcium chlorides . metal halides . calcium chlorides compounds calcium compounds . calcium carbonates . akermanite . aragonite . calcite . chalk . calcium chlorides . calcium chlorides	calcium UF GS RT calcium	. oxides . metal oxides . metal oxides alkaline earth oxides calcium oxides akermanite BSCCO superconductors  phosphates apatites calcium compounds . calcium phosphates phosphorus compounds . phosphates . calcium phosphates bone mineral content kidney stones  silicates calcium compounds . calcium ilicates . calcium silicates . gehlenite
USE caisson RT Cajun r	. alkaloids . caffeine . xanthines . caffeine organic compounds . cyclic compounds . heterocyclic compounds alkaloids caffeine purines xanthines caffeine  computer assisted instruction s construction foundations ocket vehicle		halogen compounds . chlorine compounds . chlorides . calcium chlorides . halides . chlorides . calcium chlorides . metal halides . calcium chlorides compounds calcium compounds . calcium carbonates . akermanite . aragonite . calcite . chalk . calcium chlorides . calcium chlorides	calcium UF GS RT calcium	oxides . metal oxides . metal oxides alkaline earth oxides akermanite BSCCO superconductors  phosphates apatites calcium compounds . calcium phosphates phosphorus compounds . phosphates . calcium phosphates bone mineral content kidney stones  silicates calcium compounds . calcium silicates . gehlenite silicon compounds
USE caisson RT Cajun r	. alkaloids . caffeine . xanthines . caffeine organic compounds . cyclic compounds . heterocyclic compounds . alkaloids . caffeine . purines . xanthines . caffeine  computer assisted instruction s construction foundations cocket vehicle rocket vehicles		halogen compounds . chlorine compounds . chlorides . calcium chlorides . halides . chlorides . calcium chlorides . metal halides . calcium chlorides compounds calcium compounds calcium carbonates . akermanite . aragonite . calcite . chalk . calcium chlorides . calcium chlorides . calcium carbonates . akermanite . calcite . chalk . calcium chlorides . calcium chlorides . calcium chlorides . calcium chlorides . akermanite . calcium phosphates	calcium UF GS RT calcium	. oxides . metal oxides . metal oxides alkaline earth oxides akermanite BSCCO superconductors  phosphates apatites calcium compounds . calcium phosphates phosphorus compounds . phosphates calcium phosphates bone mineral content kidney stones  silicates calcium compounds . calcium silicates . gehlenite silicotes . silicates
USE caisson RT Cajun r	alkaloids caffeine xanthines caffeine organic compounds cyclic compounds heterocyclic compounds caffeine caffeine granic compounds heterocyclic compounds caffeine caffeine caffeine computer assisted instruction s construction foundations cket vehicle rocket vehicle Nike-Cajun rocket vehicle Nike-Cajun rocket vehicle		halogen compounds . chlorine compounds . chlorides . calcium chlorides . halides . chlorides . calcium chlorides . metal halides . calcium chlorides  compounds calcium compounds calcium carbonates . akermanite . aragonite . calcite . chalk . calcium chlorides . calcium chlorides . calcium carbonates . akermanite . calcite . chalk . calcium chlorides . calcium chlorides . calcium fluorides . fluorspar . calcium oxides . akermanite . calcium phosphates . calcium phosphates . calcium silicates	calcium UF GS RT calcium	oxides metal oxide
Caisson RT Cajun r	. alkaloids . caffeine . xanthines . caffeine organic compounds . cyclic compounds . heterocyclic compounds . alkaloids . caffeine . purines . xanthines . caffeine  computer assisted instruction s construction foundations  cket vehicle rocket vehicle Nike-Cajun rocket vehicle Solid propellant rocket engines		halogen compounds . chlorine compounds . chlorides calcium chlorides . halides chlorides calcium chlorides metal halides calcium chlorides  compounds calcium compounds . calcium carbonates . akermanite . aragonite . calcite . chalk . calcium chlorides . calcium chlorides . akermanite . calcite . chalk . calcium chlorides . calcium chlorides . calcium chlorides . calcium puosphates . calcium phosphates . calcium silicates . gehlenite	calcium UF GS RT calcium GS	. oxides . metal oxides . metal oxides alkaline earth oxides akermanite BSCCO superconductors  phosphates apatites calcium compounds . calcium phosphates phosphorus compounds . phosphates bone mineral content kidney stones  silicates calcium silicates . gehlenite silicotes . calcium silicates
Caisson RT Cajun r	alkaloids caffeine xanthines caffeine organic compounds cyclic compounds heterocyclic compounds caffeine caffeine granic compounds heterocyclic compounds caffeine caffeine caffeine computer assisted instruction s construction foundations cket vehicle rocket vehicle Nike-Cajun rocket vehicle Nike-Cajun rocket vehicle		halogen compounds . chlorine compounds . chlorides . calcium chlorides . halides . chlorides . calcium chlorides . metal halides . calcium chlorides compounds calcium compounds . calcium carbonates . akermanite . aragonite . calcite . chalk . calcium chlorides . calcium rempounds . calcium carbonates . akermanite . aragonite . calcite . chalk . calcium chlorides . calcium plorides . fluorspar . calcium oxides . akermanite . calcium phosphates . calcium jhosphates . calcium sulfides	calcium UF GS RT calcium	. oxides . metal oxides . metal oxides alkaline earth oxides akermanite BSCCO superconductors  phosphates apatites calcium compounds . calcium phosphates phosphorus compounds . phosphates . calcium phosphates bone mineral content kidney stones  silicates calcium compounds . calcium silicates . gehlenite silicon compounds . silicates . calcium silicates . celcium silicates
Cajun r GS	alkaloids caffeine xanthines caffeine organic compounds cyclic compounds heterocyclic compounds caffeine caffeine caffeine caffeine caffeine caffeine caffeine computer assisted instruction s construction foundations coket vehicle rocket vehicle sounding rocket vehicle Nike-Cajun rocket vehicle solid propellant rocket engines sondes		halogen compounds . chlorine compounds . chlorides calcium chlorides . halides chlorides calcium chlorides metal halides calcium chlorides  compounds calcium compounds . calcium carbonates . akermanite . aragonite . calcite . chalk . calcium chlorides . calcium chlorides . akermanite . calcite . chalk . calcium chlorides . calcium chlorides . calcium chlorides . calcium puosphates . calcium phosphates . calcium silicates . gehlenite	calcium UF GS RT calcium GS	. oxides . metal oxides . metal oxides alkaline earth oxides akermanite BSCCO superconductors  phosphates apatites calcium compounds . calcium phosphates phosphorus compounds . phosphates bone mineral content kidney stones  silicates calcium silicates . gehlenite silicotes . calcium silicates
Cajun r GS	alkaloids caffeine xanthines caffeine organic compounds cyclic compounds heterocyclic compounds alkaloids caffeine purines caffeine computer assisted instruction s construction foundations cket vehicle rocket vehicle Nike-Cajun rocket vehicle solid propellant rocket engines sondes		halogen compounds . chlorine compounds . chlorides . calcium chlorides . halides . chlorides . calcium chlorides . metal halides . calcium chlorides compounds calcium compounds calcium carbonates . akermanite . aragonite . calcite . chalk calcium chlorides calcium chlorides . calcium carbonates . akermanite . calcite . calcite . calcite . calcite . calcium chlorides . aliur sum chlorides . calcium sulfices . akermanite . calcium sulfices . akermanite . calcium sulfices . gehlenite calcium sulfices . calcium sulfices . calcium tungstates	calcium UF GS RT calcium GS	. oxides . metal oxides . metal oxides alkaline earth oxides akermanite BSCCO superconductors  phosphates apatites calcium compounds . calcium phosphates phosphorus compounds . phosphates . calcium phosphates bone mineral content kidney stones  silicates calcium compounds . calcium silicates . gehlenite silicates . calcium silicates . gehlenite amphiboles minerals
Cajun r GS	alkaloids caffeine xanthines caffeine organic compounds cyclic compounds heterocyclic compounds caffeine caffeine caffeine caffeine caffeine caffeine caffeine computer assisted instruction s construction foundations coket vehicle rocket vehicle sounding rocket vehicle Nike-Cajun rocket vehicle solid propellant rocket engines sondes		halogen compounds . chlorine compounds . chlorides . calcium chlorides . halides . chlorides . calcium chlorides . metal halides . calcium chlorides . metal halides . calcium chlorides  compounds calcium compounds . calcium carbonates . akermanite . aragonite . calcite . chalk calcium chlorides . calcium fluorides . calcium fluorides . calcium phosphates . calcium phosphates . calcium sulfides . gehlenite . calcium sulfides . calcium vanadates . fluorite . calcium vanadates . fluorite . merwinite	calcium UF GS RT calcium GS	. oxides . metal oxides . metal oxides alkaline earth oxides calcium oxides akermanite BSCCO superconductors  phosphates apatites calcium compounds . calcium phosphates phosphorus compounds . phosphates . calcium phosphates bone mineral content kidney stones  silicates calcium compounds . calcium silicates . gehlenite silicon compounds . silicates . calcium silicates . gehlenite amphiboles minerals plagioclase  sulfides
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USE  caisson RT  Cajun r GS  RT  calcifer UF	. alkaloids . caffeine . xanthines . caffeine organic compounds . cyclic compounds . heterocyclic compounds alkaloids caffeine purines xanthines caffeine  computer assisted instruction s construction foundations  coket vehicle rocket vehicles . sounding rockets . Cajun rocket vehicle solid propellant rocket engines sondes  clipids . calciferol vitamins	GS	halogen compounds . chlorine compounds . chlorides . calcium chlorides . halides . chlorides . calcium chlorides . metal halides . calcium chlorides compounds calcium compounds calcium carbonates . akermanite . aragonite . calcite . chalk . calcium chlorides . fluorspar . calcium oxides . akermanite . calcium thlorides . calcium thlorides . calcium thlorides . calcium silicates . gehlenite . calcium sulfides . calcium tungstates . calcium vanadates . fluorite . merwinite . merwinite . mervinite . meroskites . scheelite	calcium UF GS RT calcium GS	. oxides . metal oxides . metal oxides alkaline earth oxides alkaline earth oxides calcium oxides akermanite BSCCO superconductors  phosphates apatites calcium compounds . calcium phosphates phosphorus compounds . phosphates calcium phosphates bone mineral content kidney stones  silicates calcium compounds . calcium silicates gehlenite silicon compounds . silicates gehlenite amphiboles minerals plagioclase  sulfides calcium sulfides calcium sulfides chalcogenides
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USE  caisson  RT  Cajun r  GS  RT  calcifer  UF  GS	alkaloids caffeine xanthines caffeine organic compounds cyclic compounds heterocyclic compo	GS RT ∞	halogen compounds . chlorine compounds . chlorides . calcium chlorides . halides . chlorides . calcium chlorides . metal halides . calcium chlorides compounds calcium compounds . calcium carbonates . akermanite . aragonite . calcite . chalk . calcium chlorides . calcium survides . akermanite . aragonite . calcite . claik . calcium chlorides . calcium fluorides . calcium survides . akermanite . calcium sulfides . calcium sulfides . calcium sulfides . calcium vanadates . fluorite . merwinite . monticellite . perovskites . scheelite . alkaline earth compounds chemical compounds	calcium UF GS RT calcium GS	. oxides . metal oxides . metal oxides alkaline earth oxides akermanite BSCCO superconductors  phosphates apatites calcium compounds . calcium phosphates phosphorus compounds . phosphates . calcium phosphates bone mineral content kidney stones  silicates calcium compounds . calcium silicates . gehlenite silicon compounds . ilicates . gehlenite silicates . gehlenite amphiboles minerals plagioclase  sulfides calcium sulfides chalcogenides . sulfides . sulfides . inorganic sulfides
USE  caisson RT  Cajun r GS  RT  calcifer UF GS  calcification	alkaloids caffeine caffeine caffeine organic compounds cyclic compounds heterocyclic compou	GS RT ∞	halogen compounds . chlorine compounds . chlorides . calcium chlorides . halides . chlorides . calcium chlorides . metal halides . calcium chlorides . metal halides . calcium chlorides  compounds calcium compounds . calcium carbonates . akermanite . aragonite . calcite . chalk . calcium chlorides . calcium fluorides . alcium sulfides . calcium sulfides . calcium sulfides . akermanite . calcium phosphates . calcium jhosphates . calcium sulfides . calcium sulfides . calcium vanadates . fluorite . merwinite . monticellite . perovskites . scheelite alkaline earth compounds	calcium UF GS RT calcium GS	. oxides . metal oxides . metal oxides alkaline earth oxides akermanite BSCCO superconductors  phosphates apatites calcium compounds . calcium phosphates phosphorus compounds . calcium phosphates bone mineral content kidney stones  silicates calcium compounds . calcium silicates gehlenite silicon compounds . silicates gehlenite silicotes gehlenite silicotes gehlenite silicotes gehlenite sulfides . calcium silicates gehlenite amphiboles minerals plagioclase  sulfides calcium sulfides chalcogenides . sulfides . inorganic sulfides calcium sulfides calcium sulfides calcium sulfides calcium sulfides
USE  caisson  RT  Cajun r  GS  RT  calcifer  UF  GS	alkaloids caffeine xanthines caffeine organic compounds cyclic compounds heterocyclic compounds alkaloids caffeine purines caffeine computer assisted instruction s construction foundations coket vehicle rocket vehicle rocket vehicles sounding rockets Cajun rocket vehicle solid propellant rocket engines sondes  cl vitamin D organic compounds lipids calciferol vitamins calciferol attion arthritis	GS RT ∞ ∞	halogen compounds . chlorine compounds . chlorides . calcium chlorides . halides . chlorides . calcium chlorides . metal halides . calcium chlorides compounds calcium compounds . calcium carbonates . akermanite . aragonite . calcite . chalk . calcium chlorides . calcium survides . akermanite . aragonite . calcite . claik . calcium chlorides . calcium fluorides . calcium survides . akermanite . calcium sulfides . calcium sulfides . calcium sulfides . calcium vanadates . fluorite . merwinite . monticellite . perovskites . scheelite . alkaline earth compounds chemical compounds	calcium UF GS RT calcium GS	. oxides . metal oxides . metal oxides alkaline earth oxides akermanite BSCCO superconductors  phosphates apatites calcium compounds . calcium phosphates phosphorus compounds . phosphates . calcium phosphates bone mineral content kidney stones  silicates calcium compounds . calcium silicates . gehlenite silicon compounds . ilicates . gehlenite amphiboles minerals plagioclase  sulfides calcium sulfides chalcogenides . sulfides . sulfides . inorganic sulfides
USE  caisson RT  Cajun r GS  RT  calcifer UF GS  calcification	alkaloids caffeine xanthines caffeine organic compounds cyclic compounds heterocyclic compo	GS RT ∞ ∞	halogen compounds . chlorine compounds . chlorides . calcium chlorides . halides . chlorides . calcium chlorides . metal halides . calcium chlorides compounds calcium compounds calcium carbonates . akermanite . aragonite . calcite . chalk . calcium chlorides . dalcium chlorides . akermanite . calcium chlorides . calcium chlorides . calcium chlorides . calcium chlorides . calcium fluorides . fluorspar . calcium oxides . akermanite . calcium phosphates . calcium phosphates . calcium phosphates . calcium tungstates . gehlenite . calcium tungstates . calcium vanadates . fluorite . merwinite . monticellite . perovskites . scheelite alkaline earth compounds chemical compounds metal compounds	calcium UF GS RT calcium GS	. oxides . metal oxides . metal oxides alkaline earth oxides akermanite BSCCO superconductors  phosphates apatites calcium phosphates phosphorus compounds . calcium phosphates phosphates calcium phosphates bone mineral content kidney stones  silicates calcium compounds . calcium silicates . gehlenite silicon compounds . silicates . gehlenite amphiboles minerals plagioclase  sulfides calcium sulfides chalcogenides . sulfides . calcium sulfides
USE  caisson RT  Cajun r GS  RT  calcifer UF GS  calcification	alkaloids caffeine xanthines caffeine organic compounds cyclic compounds heterocyclic compounds alkaloids caffeine purines caffeine computer assisted instruction s construction foundations coket vehicle rocket vehicle rocket vehicles sounding rockets Cajun rocket vehicle solid propellant rocket engines sondes  cl vitamin D organic compounds lipids calciferol vitamins calciferol attion arthritis	GS RT ∞ ∞ calcium	halogen compounds . chlorine compounds . chlorides . calcium chlorides . halides . chlorides . calcium chlorides . metal halides . calcium chlorides . metal halides . calcium chlorides  compounds calcium compounds . calcium carbonates . akermanite . aragonite . calcite . chalk . calcium chlorides . calcium fluorides . alcium sulfides . calcium sulfides . calcium jenspar . calcium oxides . akermanite . calcium jenspar . calcium jenspar . calcium wilcium sulfides . calcium wilcium sulfides . calcium sulfides . calcium vanadates . fluorite . merwinite . monticellite . perovskites . scheelite alkaline earth compounds chemical compounds metal compounds	calcium UF GS RT calcium GS	. oxides . metal oxides . metal oxides alkaline earth oxides akermanite BSCCO superconductors  phosphates apatites calcium compounds . calcium phosphates phosphorus compounds . phosphates . calcium phosphates bone mineral content kidney stones  silicates calcium compounds . calcium silicates . gehlenite silicon compounds . silicates . calcium silicates . gehlenite amphiboles minerals plagioclase  sulfides calcium compounds . calcium silicates . calcium silicates . gehlenite amphiboles minerals plagioclase  sulfides calcium compounds . calcium sulfides calcium compounds . calcium sulfides sulfur compounds . sulfides calcium sulfides sulfur compounds . sulfides
USE  caisson RT  Cajun r GS  RT  calcifer UF GS  calcific RT	alkaloids caffeine caffeine caffeine organic compounds cyclic compounds heterocyclic compou	GS RT ∞ ∞ calcium	halogen compounds . chlorine compounds . chlorides . calcium chlorides . halides . chlorides . calcium chlorides . metal halides . calcium chlorides compounds calcium compounds calcium carbonates . akermanite . aragonite . calcite . chalk . calcium chlorides . dalcium compounds . calcium carbonates . akermanite . calcium calcium chlorides . calcium chlorides . calcium silicates . gehlenite . calcium silicates . gehlenite . calcium tungstates . fluorite	calcium UF GS RT calcium GS	. oxides . metal oxides . metal oxides alkaline earth oxides akermanite BSCCO superconductors  phosphates apatites calcium compounds . calcium phosphates phosphorus compounds . phosphates . calcium phosphates bone mineral content kidney stones  silicates calcium compounds . calcium silicates . gehlenite silicon compounds . silicates . gehlenite amphiboles minerals plagioclase  sulfides calcium sulfides chalcogenides . sulfides . inorganic sulfides sulfides . calcium sulfides sulfides . calcium sulfides
Cajun r GS RT  Cajun r GS RT  calcifer UF GS  calcifica	alkaloids caffeine caffeine caffeine organic compounds cyclic compounds heterocyclic compou	GS RT ∞ ∞ calcium	halogen compounds . chlorine compounds . chlorides . calcium chlorides . halides . chlorides . calcium chlorides . metal halides . calcium chlorides . metal halides . calcium chlorides compounds calcium compounds calcium carbonates . akermanite . aragonite . calcite . chalk . calcium chlorides . fluorspar . calcium oxides . akermanite . calcium phosphates . calcium phosphates . calcium silicates . gehlenite . calcium tungstates . calcium vanadates . fluorite . merwinite . monticellite . perovskites . scheelite alkaline earth compounds chemical compounds metal compounds metal compounds . calcium fluorides . calcium compounds . calcium compounds . calcium fluorides . fluorides . calcium fluorides . fluoriopspar halogen compounds	calcium UF GS RT calcium GS RT calcium	. oxides . metal oxides . metal oxides alkaline earth oxides akermanite BSCCO superconductors  phosphates apatites calcium compounds . calcium phosphates phosphorus compounds . phosphates . calcium phosphates bone mineral content kidney stones  silicates calcium compounds . gehlenite silicon compounds . silicates . gehlenite silicon compounds . silicates . gehlenite silicon compounds . silicates . calcium silicates . gehlenite amphiboles minerals plagioclase  sulfides calcium compounds . calcium sulfides chalcogenides . sulfides . inorganic sulfides sulfur compounds . sulfides . inorganic sulfides . inorganic sulfides . inorganic sulfides . calcium sulfides tungstates  tungstates
Caisson RT  Cajun r GS  RT  calcifer UF GS  calcifica RT  calcinate USE	alkaloids caffeine xanthines caffeine organic compounds cyclic compounds heterocyclic compounds heterocyclic compounds caffeine purines caffeine computer assisted instruction s construction foundations coket vehicle rocket vehicle rocket vehicles sounding rockets Lajun rocket vehicle solid propellant rocket engines sondes  cl vitamin D organic compounds lipids calciferol vitamins calciferol attion arthritis bones osteocalcin	GS RT ∞ ∞ calcium	halogen compounds . chlorine compounds . chlorides . calcium chlorides . halides . chlorides . calcium chlorides . metal halides . calcium chlorides . metal halides . calcium compounds . calcium compounds . calcium carbonates . akermanite . aragonite . calcite . chalk . calcium chlorides . alium survides . aliurspar . calcium phosphates . calcium sulfides . calcium sulfides . calcium sulfides . calcium vanadates . fluorite . merwinite . monticellite . perovskites . scheelite . alkaline earth compounds chemical compounds metal compounds . calcium fluorides . fluorides calcium compounds . fluorides calcium fluorides . fluoropar halogen compounds . fluorine compounds	calcium UF GS RT calcium GS	. oxides . metal oxides . metal oxides alkaline earth oxides akermanite BSCCO superconductors  phosphates apatites calcium compounds . calcium phosphates phosphorus compounds . phosphates . calcium phosphates bone mineral content kidney stones  silicates calcium compounds . calcium silicates . gehlenite silicon compounds . silicates . celcium silicates . gehlenite silicon compounds . silicates . calcium silicates . calcium silicates . gehlenite amphiboles minerals plagioclase  sulfides calcium compounds . calcium sulfides calcium compounds . calcium sulfides . calcium sulfides . inorganic sulfides . sulfides . inorganic sulfides . sulfides . inorganic sulfides . unorganic sulfides . calcium sulfides calcium sulfides . calcium sulfides . calcium sulfides
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Caisson RT  Cajun r GS  RT  calcifer UF GS  calcifica RT  calcinate USE	alkaloids caffeine xanthines caffeine organic compounds cyclic compounds heterocyclic compounds heterocyclic compounds caffeine purines caffeine computer assisted instruction s construction foundations coket vehicle rocket vehicle rocket vehicles sounding rockets Lajun rocket vehicle solid propellant rocket engines sondes  cl vitamin D organic compounds lipids calciferol vitamins calciferol attion arthritis bones osteocalcin	GS RT ∞ ∞ calcium	halogen compounds . chlorine compounds . chlorides . calcium chlorides . halides . chlorides . calcium chlorides . metal halides . calcium chlorides . metal halides . calcium compounds . calcium compounds . calcium carbonates . akermanite . aragonite . calcite . chalk . calcium chlorides . alium survides . aliurspar . calcium phosphates . calcium sulfides . calcium sulfides . calcium sulfides . calcium vanadates . fluorite . merwinite . monticellite . perovskites . scheelite . alkaline earth compounds chemical compounds metal compounds . calcium fluorides . fluorides calcium compounds . fluorides calcium fluorides . fluoropar halogen compounds . fluorine compounds	calcium UF GS RT calcium GS RT calcium GS	. oxides . metal oxides . metal oxides alkaline earth oxides akermanite BSCCO superconductors  phosphates apatites calcium compounds . calcium phosphates phosphorus compounds . phosphates . calcium phosphates bone mineral content kidney stones  silicates calcium compounds . calcium silicates . gehlenite silicon compounds . silicates . celcium silicates . gehlenite silicon compounds . silicates . calcium silicates . calcium silicates . gehlenite amphiboles minerals plagioclase  sulfides calcium compounds . calcium sulfides calcium compounds . calcium sulfides . calcium sulfides . inorganic sulfides . sulfides . inorganic sulfides . unorganic sulfides . unorganic sulfides . calcium sulfides calcium sulfides . calcium sulfides . calcium sulfides . calcium sulfides

	calcium tungstates		volcanic eruptions		isotopes
	oaloiam tangstates		volcanoes		radioactive isotopes
calcium	vanadates		volcanology		transuranium elements
GS	calcium compounds				californium
	. calcium vanadates	calenda			californium isotopes
	vanadium compounds . vanadates	DEF	Orderly arrangements of days, weeks, etc. to suit a particular need such as		metals . actinide series
	calcium vanadates	civil life.	cto. to suit a particular freed such as		transuranium elements
		GS	calendars		californium
calculation			. crop calendars		californium isotopes
USE	computation	RT	month	0.41.100	O (D. 11.6)
calculat	ore		scheduling time		6 <b>O (Pathfinder satellite)</b> ed October 2005)
	arithmetic		une		CALIPSO (Cloud-Aerosol Lidar and In-
	computation	calibrat	ing		Pathfinder Satellite Observation) is an
	computers	UF	graduation		serving satellite that combines an active
aalauli		GS	calibrating		trument with passive infrared and visible
calculi UF	renal calculi		. intercalibration . wind tunnel calibration		to probe the vertical structure and prop-
	deposits	RT	accuracy	GS	thin clouds and aerosols over the globe. artificial satellites
	. calculi	• • • •	instrument compensation	40	. scientific satellites
	dental calculi		instrument errors		CALIPSO (Pathfinder satellite)
	lithiasis		measuring instruments		Earth Observing System (EOS)
	urolithiasis	~	scaling	DT	. CALIPSO (Pathfinder satellite)
calculus	<b>i</b>		Solar Cell Calibration Facility standardization	RT	aerosols Aqua spacecraft
SN	(LIMITED TO MATHEMATICS)		standards		Aura spacecraft
GS	analysis (mathematics)		temperature scales		clouds (meteorology)
	. calculus				CloudSat
	continuity (mathematics) differential calculus	Californ GS			Earth observations (from space)
	Fourier-Bessel transformations	ds	nations . United States		infrared radar 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 DEF	A satellite of Jupiter orbiting at a mean
	cosine series		Great Basin (US)		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 Taylor series		Mojave Desert (CA)		. natural satellites
	MacLaurin series		Monterey Bay (CA) Palo Verde Valley (CA)		icy satellites Callisto
	progressions		Peninsular Ranges (CA)		Jupiter satellites
	Prony series		Sacramento Valley (CA)		Galilean satellites
	sine series		Salton Sea (CA)		Callisto
	vector analysis collinearity		San Andreas Fault	RT	Charon
	coplanarity		San Francisco (CA) San Francisco Bay (CA)		extraterrestrial oceans Ganymede
	curl (vectors)		San Joaquin Valley (CA)		lo
	vorticity		San Pablo Bay (CA)		Jupiter (planet)
RT	analytic geometry		Sierra Nevada Mountains (CA)		
	asymptotes differential equations		Southern California	calmod	
	functions (mathematics)	californ	ium	GS	biopolymers . proteins
∞	mathematics	GS	chemical elements		calmodulin
	monotone functions		. actinide series		organic compounds
	operational calculus		transuranium elements		. proteins
	real variables		californium	DT	calmodulin calcium
calculus	of variations		californium isotopes . nuclides	RT	calcium metabolism
UF	variation method		isotopes		cytoplasm
GS	analysis (mathematics)		radioactive isotopes		gravitropism
	. real variables		transuranium elements		regulatory mechanisms (biology)
RT	Biot method		californium	calorio	requirements
	Castigliano variational theorem		californium isotopes metals		nutritional requirements
	differential equations		. actinide series	0.0	. caloric requirements
	Euler-Lagrange equation		transuranium elements	RT	diets
	integral equations		californium	~	food
	invariant imbeddings Jacobi matrix method	DT	californium isotopes		metabolism mineral metabolism
	maxima	RT	californium compounds	~	nutrients
	operational calculus	californi	um 252		nutrition
	pontryagin principle	USE	californium isotopes		
	steepest descent method	00114	ium compounds	caloric	
	variational principles		ium compounds actinide series compounds	HI∝	stimuli
calderas	3	us	. californium compounds	calorim	eters
DEF	Large, basin-shaped volcanic depres-	RT	californium	DEF	Instruments designed to measure heat
	ore or less circular in form, the diameter				or absorbed. Used for microcalorim-
	is many times greater than that of the		ium isotopes	eters.	miaragalarimatara
	vent or vents. landforms	UF GS	californium 252 chemical elements	UF GS	microcalorimeters measuring instruments
40	. calderas	40	. actinide series	ao	. calorimeters
RT	cones (volcanoes)		transuranium elements		bomb calorimeters
	craters		californium		drop calorimeters
	lava Mara valaanaaa		californium isotopes	DT	flame calorimeters
	Mars volcanoes		. nuclides	RT	heat measurement

	high temperature tests		return beam vidicons		. cams
	scintillating fibers	ОТ	thermicons	RT	actuators
	temperature measuring instruments	RT	cameras dvnodes		eccentrics internal combustion engines
calorime	etry		image converters		linkages
USE	heat measurement		image transducers		mechanical devices
			monoscopes		
calutron			planotrons	Canada	
USE	cyclotrons		television cameras	GS	nations
calves			video equipment		. Canada Alberta
GS	animals	camera	ne.		British Columbia
	. vertebrates	GS	optical equipment		Manitoba
	mammals	0.0	. cameras		. New Brunswick
	cattle		Baker-Nunn camera		Newfoundland
ОТ	calves		ballistic cameras		Northwest Territories
RT	livestock		CCD cameras		Nova Scotia
Calypso			Delft camera		Ontario
	ed January 1996)		diffraction limited cameras		Prince Edward Island
	A natural satellite of Saturn orbiting at		faint object camera high speed cameras		Quebec Saskatchewan
a mean	distance of 294,660 kilometers.		framing cameras		Yukon Territory
GS	celestial bodies		digital cameras	RT	Anik 1
	. natural satellites		I2S cameras		Anik 2
	Saturn satellites		Lallemand cameras		Anik 3
RT	Calypso Saturn (planet)		multispectral band cameras		Beaufort Sea (North America)
ΠI	Saturn (planet)		panoramic cameras		Canadian space program
CAM (m	nanufacturing)		pinhole cameras		Canadian spacecraft
USE	<b>0</b> /		Schmidt cameras		Communications Technology Satellite
			streak cameras		Great Dising Corridor (North America)
camber			television cameras photographic equipment		Great Plains Corridor (North America) 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
111	bending		CCD cameras		Labrador
~	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 digital cameras		St Lawrence Valley (North America) Williston Basin (North America)
	deformation		I2S cameras		Williston Basin (North America)
	distortion		Lallemand cameras	Canada	ir aircraft
	flexing fuselages		multispectral band cameras	UF	Canadair CF-104 aircraft
	lift		panoramic cameras		CF-104 aircraft
	warpage		pinhole cameras	GS	Canadair aircraft
			Schmidt cameras		. CL-41 aircraft
camber	ed wings		streak cameras		. CL-44 aircraft
GS	airfoils	DT	television cameras		. CL-84 aircraft
	. wings	RT	camera shutters camera tubes	DT	. CL-600 challenger aircraft
рт	cambered wings		cinematography	пг∝	General Dynamics aircraft
RT	camber fixed wings		focusing		Gonoral Bynamios anotait
	twisted wings		lenses	Canadai	ir CF-104 aircraft
	uncambered wings		photography	USE	Canadair aircraft
	wing camber		SIM		F-104 aircraft
	•		streak photography	0	in OL 44 -in-u-ft
Camboo			ultraviolet photography		ir CL-41 aircraft CL-41 aircraft
UF	Kampuchea		underwater photography	USE	CL-41 all Clait
GS	nations . Cambodia		wide angle lenses	Canadai	ir CL-44 aircraft
RT	Asia	Camero	oon		CL-44 aircraft
131	, with	GS			
Cambria	an Period		. Cameroon		ir CL-84 aircraft
	ed June 1989)	RT	Africa	USE	CL-84 aircraft
GS	Paleozoic Era			Canada	(100)
	. Cambrian Period	camou			rm (ISS) ed September 2001)
RT		RT			Space Station Mobile Servicing
	paleontology Precambrian period		coverings netting (materials/structures)	OOL	System
	Frecambilan penod		stealth technology		Cycle
Camel a	nircraft		steath teermology	Canadia	n Shield
USE	TU-104 aircraft	Campb	ell-Hausdorff series	RT	geology
		GS	analysis (mathematics)		meteorite craters
	shutters		calculus		Precambrian period
RT			series (mathematics)	Canadia	
	irises (mechanical apertures)		Campbell-Hausdorff series		an space program  Space research, programs, and activi-
	Kerr cells panoramic cameras		. real variables		ertaken by Canada.
~	shutters		series (mathematics) Campbell-Hausdorff series		programs
~	streak cameras		Odinpoch-Hausdolli Sches	40	. space programs
		camph	or		Canadian space program
camera		GS	ketones		Alouette project
GS	electron tubes		. camphor	RT	1 07
	camera tubes		terpenes		Anik 1
	image dissector tubes		. camphor		Anik 2
	orthicons	aama			Anik 3
	image orthicons	cams			Anik satellites

GS positioning devices (machinery)

Canada

. . vidicons

Canadian spacecraft Communications Technology Satellite	removal stopping	drums (containers)
NASA programs	0	cant
Radarsat	cancellation circuits	USE slopes
scientific satellites	GS circuits	
Space Station Mobile Servicing System	. cancellation circuits	cantilever beams GS cantilever members
synchronous satellites	RT display devices moving target indicators	. cantilever beams
technology assessment	pulse Doppler radar	structural members
technology utilization	radar	. beams (supports)
		cantilever beams
Canadian spacecraft	cancer	RT box beams
DEF Spacecraft of the Canadian Government. The following satellites have been devel-	UF carcinoma	I beams
oped: Alouette satellites, ISIS satellites, Anik	sarcoma GS diseases	cantilever members
satellites, and Hermes satellite. RADARSAT and	. tumors	GS cantilever members
MSAT are in the process of being developed.	neoplasms	. cantilever beams
GS Canadian spacecraft	cancer	. cantilever plates
. Alouette satellites	leukemias	RT levers
Alouette 1 satellite	RT bone marrow	
Alouette 2 satellite Alouette B satellite	breast	cantilever plates
. Anik satellites	carcinogens	GS cantilever members
Anik 1	cells (biology)	. cantilever plates
Anik 2	metastasis oncogenes	structural members . plates (structural members)
Anik 3	radiation therapy	cantilever plates
. Radarsat	tissues (biology)	RT anisotropic plates
RT Canada	tumor suppressor genes	
Canadian space program	tumor suppressor proteins	cantilever wings
∞ spacecraft	ulcers	USE wings
canals		
GS landforms	cancer genes	canyons
. canals	(added July 2002) USE oncogenes	UF coulees
waterways	OSL Oncogenes	<i>gorges</i> GS landforms
. canals	canisters	. canyons
RT ditches	USE cans	Grand Canyon (AZ)
flood control	ool dand	RT arroyos
fluid flow gates (openings)	canning	cliffs
Great Lakes (North America)	GS food processing	fans (landforms)
irrigation	. canning	ravines
Mars surface	RT encapsulating	rivers
	∞ food	valleys
materials handling	55 100d	
materials handling Panama		water erosion
Panama seepage	Cannonball 2 satellite	water erosion
Panama seepage straits	Cannonball 2 satellite GS artificial satellites	
Panama seepage straits troughs	Cannonball 2 satellite  GS artificial satellites . scientific satellites	water erosion  cap clouds
Panama seepage straits	Cannonball 2 satellite GS artificial satellites	water erosion  cap clouds  UF orographic clouds  GS clouds (meteorology)  . cap clouds
Panama seepage straits troughs water flow	Cannonball 2 satellite  GS artificial satellites . scientific satellites Cannonball 2 satellite	water erosion  cap clouds  UF orographic clouds  GS clouds (meteorology)  cap clouds  RT atmospheric moisture
Panama seepage straits troughs	Cannonball 2 satellite  GS artificial satellites . scientific satellites	water erosion  cap clouds  UF orographic clouds  GS clouds (meteorology)  . cap clouds  RT atmospheric moisture climatology
Panama seepage straits troughs water flow  canard configurations DEF Pertaining to an aerodynamic vehicle in which horizontal surfaces used for trim and	Cannonball 2 satellite GS artificial satellites . scientific satellites Cannonball 2 satellite  cannons	water erosion  cap clouds UF orographic clouds GS clouds (meteorology) . cap clouds RT atmospheric moisture climatology cloud cover
Panama seepage straits troughs water flow  canard configurations DEF Pertaining to an aerodynamic vehicle in which horizontal surfaces used for trim and control are forward of the main lifting surface;	Cannonball 2 satellite GS artificial satellites . scientific satellites Cannonball 2 satellite  cannons	water erosion  cap clouds  UF orographic clouds  GS clouds (meteorology)  cap clouds  RT atmospheric moisture climatology cloud cover meteorology
Panama seepage straits troughs water flow  canard configurations  DEF Pertaining to an aerodynamic vehicle in which horizontal surfaces used for trim and control are forward of the main lifting surface; the horizontal trim and control surfaces in such	Cannonball 2 satellite  GS artificial satellites . scientific satellites Cannonball 2 satellite  cannons USE guns (ordnance)	water erosion  cap clouds  UF orographic clouds  GS clouds (meteorology) . cap clouds  RT atmospheric moisture climatology cloud cover meteorology nephanalysis
Panama seepage straits troughs water flow  canard configurations  DEF Pertaining to an aerodynamic vehicle in which horizontal surfaces used for trim and control are forward of the main lifting surface; the horizontal trim and control surfaces in such an arrangement.	Cannonball 2 satellite GS artificial satellites . scientific satellites Cannonball 2 satellite  cannons USE guns (ordnance)  cannulae RT ∞ tubes	water erosion  cap clouds  UF orographic clouds  GS clouds (meteorology) . cap clouds  RT atmospheric moisture climatology cloud cover meteorology nephanalysis precipitation (meteorology)
Panama seepage straits troughs water flow  canard configurations  DEF Pertaining to an aerodynamic vehicle in which horizontal surfaces used for trim and control are forward of the main lifting surface; the horizontal trim and control surfaces in such an arrangement.  GS aerodynamic configurations	Cannonball 2 satellite GS artificial satellites . scientific satellites Cannonball 2 satellite  cannons USE guns (ordnance)  cannulae RT ∞ tubes  canonical forms	water erosion  cap clouds  UF orographic clouds  GS clouds (meteorology) . cap clouds  RT atmospheric moisture climatology cloud cover meteorology nephanalysis
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Panama seepage straits troughs water flow  canard configurations  DEF Pertaining to an aerodynamic vehicle in which horizontal surfaces used for trim and control are forward of the main lifting surface; the horizontal trim and control surfaces in such an arrangement.  GS aerodynamic configurations  . canard configurations  . canard configurations  ocontrol surfaces  JAS-39 aircraft structures  control surfaces  JAS-39 aircraft  saab 37 aircraft tandem wing aircraft X-31 aircraft  tandem wing aircraft X-31 aircraft  Canary Islands  islands  Canary Islands  Canary Islands  Canary Islands  Canberra aircraft  GS BAC aircraft  Canberra aircraft  ic Canberra aircraft monoplanes  Canberra aircraft  Canberra aircraft	Cannonball 2 satellite GS artificial satellites . scientific satellites . Cannons USE guns (ordnance)  cannulae RT ∞ tubes  canonical forms GS algebra . vector spaces . matrices (mathematics) canonical forms RT fibers (mathematics)  canopies  RT aircraft structures airframes cockpits fairings windshields  canopies (vegetation) DEF The topmost layers of leaves and branches of forest trees or other plants. GS vegetation . canopies (vegetation) RT foliage forests grasses leaf area index leaves plants (botany) rain forests sod trees (plants)	cap clouds  UF orographic clouds GS clouds (meteorology) . cap clouds RT atmospheric moisture climatology cloud cover meteorology nephanalysis precipitation (meteorology) weather  capacitance  DEF That property of a system of conductors and dielectrics which permits the storage of electrically separated charges when potential differences exist between the conductors. It is the ratio of a quantity, Q, of electricity to a potential difference, V. A capacitance value is always positive. The units are farads when the charge is expressed in coulombs and the potential in volts: C = Q/V. Capacitance is symbolized as C. GS electrical properties . capacitance RT capacitance RT capacitance-voltage characteristics capacitors ∞ capacity dielectric properties electric charge electrical impedance electrostatic charge inductance open circuit voltage RC circuits reactance
Panama seepage straits troughs water flow  canard configurations  DEF Pertaining to an aerodynamic vehicle in which horizontal surfaces used for trim and control are forward of the main lifting surface; the horizontal trim and control surfaces in such an arrangement.  GS aerodynamic configurations  canard configurations  idircraft structures  configurations  control surfaces  JAS-39 aircraft Saab 37 aircraft tandem wing aircraft X-31 aircraft  Canary Islands  GS landforms  islands  Canary Islands  Canary Islands  Canary Islands  Canberra aircraft  GS BAC aircraft  Canberra aircraft  Canberra aircraft  Canberra aircraft  Canberra aircraft  RT ∞ aircraft  RT ∞ aircraft  B-57 aircraft	Cannonball 2 satellite GS artificial satellites . scientific satellites Cannonball 2 satellite  cannons USE guns (ordnance)  cannulae RT ∞ tubes  canonical forms GS algebra . vector spaces . matrices (mathematics) canonical forms RT fibers (mathematics)  canopies  RT aircraft structures airframes cockpits fairings windshields  canopies (vegetation) DEF The topmost layers of leaves and branches of forest trees or other plants. GS vegetation . canopies (vegetation) RT foliage forests grasses leaf area index leaves plants (botany) rain forests sod	cap clouds  UF orographic clouds GS clouds (meteorology) . cap clouds RT atmospheric moisture climatology cloud cover meteorology nephanalysis precipitation (meteorology) weather  capacitance  DEF That property of a system of conductors and dielectrics which permits the storage of electrically separated charges when potential differences exist between the conductors. It is the ratio of a quantity, Q, of electricity to a potential difference, V. A capacitance value is always positive. The units are farads when the charge is expressed in coulombs and the potential in volts: C = Q/V. Capacitance is symbolized as C. GS electrical properties . capacitance  RT capacitance-voltage characteristics capacitors ∞ capacity dielectric properties electric charge electrical impedance electrostatic charge inductance open circuit voltage RC circuits reactance RLC circuits  capacitance switches GS switches
Panama seepage straits troughs water flow  canard configurations  DEF Pertaining to an aerodynamic vehicle in which horizontal surfaces used for trim and control are forward of the main lifting surface; the horizontal trim and control surfaces in such an arrangement.  GS aerodynamic configurations  . canard configurations  RT aircraft structures  . configurations  control surfaces  JAS-39 aircraft Saab 37 aircraft tandem wing aircraft X-31 aircraft  Canary Islands  GS landforms . islands Canary Islands nations . Spain Canary Islands  Canberra aircraft GS BAC aircraft . Canberra aircraft jet aircraft . Canberra aircraft BHC aircraft . Canberra aircraft RT ∞ aircraft  RT ∞ aircraft  RT ∞ aircraft  Canberra bomber  USE B-57 aircraft	Cannonball 2 satellite GS artificial satellites . scientific satellites Cannonball 2 satellite  cannons USE guns (ordnance)  cannulae RT ∞ tubes  canonical forms GS algebra . vector spaces . matrices (mathematics) canonical forms RT fibers (mathematics)  canopies  RT aircraft structures airframes cockpits fairings windshields  canopies (vegetation) DEF The topmost layers of leaves and branches of forest trees or other plants. GS vegetation . canopies (vegetation) RT foliage forests grasses leaf area index leaves plants (botany) rain forests sod trees (plants) vegetative index	cap clouds  UF orographic clouds GS clouds (meteorology) . cap clouds RT atmospheric moisture climatology cloud cover meteorology nephanalysis precipitation (meteorology) weather  capacitance  DEF That property of a system of conductors and dielectrics which permits the storage of electrically separated charges when potential differences exist between the conductors. It is the ratio of a quantity, Q, of electricity to a potential difference, V. A capacitance value is always positive. The units are farads when the charge is expressed in coulombs and the potential in volts: C = Q/V. Capacitance is symbolized as C. GS electrical properties . capacitance RT capacitance-voltage characteristics capacitors ∞ capacity dielectric properties electric charge electrical impedance electrostatic charge inductance open circuit voltage RC circuits reactance RLC circuits  capacitance switches GS switches . capacitance switches GS switches . capacitance switches
Panama seepage straits troughs water flow  canard configurations  DEF Pertaining to an aerodynamic vehicle in which horizontal surfaces used for trim and control are forward of the main lifting surface; the horizontal trim and control surfaces in such an arrangement.  GS aerodynamic configurations  aircraft structures  configurations  control surfaces  JAS-39 aircraft Saab 37 aircraft tandem wing aircraft X-31 aircraft  Canary Islands  GS landforms islands Canary Islands  Canary Islands  Canary Islands  Canberra aircraft  GS BAC aircraft Canberra aircraft  Canberra aircraft  Canberra aircraft  RT ≈ aircraft  RT ≈ aircraft  Canberra aircraft  RT ≈ aircraft  Canberra bomber  USE B-57 aircraft  cancellation	Cannonball 2 satellite GS artificial satellites . scientific satellites Cannonball 2 satellite  cannons USE guns (ordnance)  cannulae RT ∞ tubes  canonical forms GS algebra . vector spaces . matrices (mathematics) canonical forms RT fibers (mathematics)  canopies  RT aircraft structures airframes cockpits fairings windshields  canopies (vegetation) DEF The topmost layers of leaves and branches of forest trees or other plants. GS vegetation . canopies (vegetation) RT foliage forests grasses leaf area index leaves plants (botany) rain forests sod trees (plants) vegetative index  cans	cap clouds  UF orographic clouds GS clouds (meteorology) . cap clouds  RT atmospheric moisture climatology cloud cover meteorology nephanalysis precipitation (meteorology) weather  capacitance  DEF That property of a system of conductors and dielectrics which permits the storage of electrically separated charges when potential differences exist between the conductors. It is the ratio of a quantity, Q, of electricity to a potential difference, V. A capacitance value is always positive. The units are farads when the charge is expressed in coulombs and the potential in volts: C = Q/V. Capacitance is symbolized as C.  GS electrical properties . capacitance  RT capacitance-voltage characteristics capacitors  ∞ capacity dielectric properties electric charge electric charge electric charge inductance open circuit voltage RC circuits reactance RLC circuits  capacitance switches GS switches GS switches RT capacitors
Panama seepage straits troughs water flow  canard configurations  DEF Pertaining to an aerodynamic vehicle in which horizontal surfaces used for trim and control are forward of the main lifting surface; the horizontal trim and control surfaces in such an arrangement.  GS aerodynamic configurations  . canard configurations  RT aircraft structures  . configurations  control surfaces  JAS-39 aircraft Saab 37 aircraft tandem wing aircraft X-31 aircraft  Canary Islands  GS landforms . islands Canary Islands nations . Spain Canary Islands  Canberra aircraft GS BAC aircraft . Canberra aircraft jet aircraft . Canberra aircraft BHC aircraft . Canberra aircraft RT ∞ aircraft  RT ∞ aircraft  RT ∞ aircraft  Canberra bomber  USE B-57 aircraft	Cannonball 2 satellite GS artificial satellites . scientific satellites Cannonball 2 satellite  cannons USE guns (ordnance)  cannulae RT ∞ tubes  canonical forms GS algebra . vector spaces . matrices (mathematics) canonical forms RT fibers (mathematics)  canopies  RT aircraft structures airframes cockpits fairings windshields  canopies (vegetation) DEF The topmost layers of leaves and branches of forest trees or other plants. GS vegetation . canopies (vegetation) RT foliage forests grasses leaf area index leaves plants (botany) rain forests sod trees (plants) vegetative index	cap clouds  UF orographic clouds GS clouds (meteorology) . cap clouds RT atmospheric moisture climatology cloud cover meteorology nephanalysis precipitation (meteorology) weather  capacitance  DEF That property of a system of conductors and dielectrics which permits the storage of electrically separated charges when potential differences exist between the conductors. It is the ratio of a quantity, Q, of electricity to a potential difference, V. A capacitance value is always positive. The units are farads when the charge is expressed in coulombs and the potential in volts: C = Q/V. Capacitance is symbolized as C. GS electrical properties . capacitance RT capacitance-voltage characteristics capacitors ∞ capacity dielectric properties electric charge electrical impedance electrostatic charge inductance open circuit voltage RC circuits reactance RLC circuits  capacitance switches GS switches . capacitance switches GS switches . capacitance switches

capacitance-voltage characteristics 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 system, rocket engine or motor as distinguished capacitance-voltage capillary flow from a flight test. characteristics UF capillary circulation captive tests RT capacitance GS fluid flow GS . static tests ∞ characteristics capillary flow static firing electric potential RT blood flow engine tests metal oxide semiconductors laminar flow volt-ampere characteristics liquid bridges 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 RT absorptance cooling systems ∞ absorption circuit protection cryogenic cooling ∞ effects circuits evaporative cooling electron capture ∞ condensers heat transfer frequency modulation frequency synchronization dielectrics liquid cooling electrets temperature control electric bridges nuclear capture recombination reactions electric energy storage 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 output . . gravity waves 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) . pesticides ∞ caps 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 ĠS landforms carbenes . capes (landforms) detonators DFF An organic radical containing divalent . Cape Hatteras (NC) exploding wires carbon. fuses (ordnance)

RT land

### ∞ capillaries

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

capillary tubes

## capillaries (anatomy)

anatomy GS

. circulatory system

. . cardiovascular system

∞ capsules

primers (explosives)

SN

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

∞ containers fuel capsules

shells (structural forms) space capsules

tablets

. . chromium carbides

. carbides . . aluminum carbides

DEF Compounds of carbon with one or

. . cementite

free radicals

more metallic elements. GS carbon compounds

RT

carbides

. . boron carbides

hafnium carbides

	molybdenum carbides		carbon 12	GS	cycles
	niobium carbides				carbon cycle
	silicon carbides	carbon		RT	animals
	tantalum carbides titanium carbides	GS	chemical elements . carbon	0	∘ biology biomass
	tungsten carbides		carbon isotopes		ecology
	uranium carbides		carbon 13		organisms
	vanadium carbides		. nuclides		plants (botany)
ОТ	zirconium carbides		isotopes		viability
RT	ceramic nuclear fuels		carbon isotopes	carbon	dioxide
	refractory materials		Carbon 13		carbon compounds
carbohy	ydrate metabolism	carbon	14		. carbon dioxide
GS	metabolism	GS	chemical elements		chalcogenides
	. carbohydrate metabolism		. carbon		. oxides
	hyperglycemia hypoglycemia		carbon isotopes carbon 14		dioxides carbon dioxide
RT	cortisone		. nuclides		gases
	diabetes mellitus		isotopes		. carbon dioxide
	glucocorticoids		carbon isotopes	RT	Chlorella
	hydrogen metabolism		carbon 14		metabolic wastes
carbohy	vdrates		radioactive isotopes		synthane
UF	saccharides		carbon 14	carbon	dioxide concentration
GS	organic compounds	carbon	arcs	GS	composition (property)
	carbohydrates	GS	electric current		. chemical composition
	citric acid		. electric discharges		carbon dioxide concentration
	glucosides nucleosides		electric arcs		. concentration (composition) carbon dioxide concentration
	adenines	RT	carbon arcs arc lamps		. gas composition
	guanosines	п	image furnaces		carbon dioxide concentration
	polysaccharides		inage fundoes	RT	air purification
	cellulose	carbon	compounds		atmospheric composition
	Fortisan (trademark)	SN	(RESTRICTED TO INORGANIC		climate change
	chitin dextrans	GS	COMPOUNDS) carbon compounds		decontamination rebreathing
	glycogens		carbides		spacecraft cabin atmospheres
	starches		aluminum carbides		opaccolait cabiii aiiiicopiiciico
	sugars		boron carbides		dioxide lasers
	dextrans		cementite chromium carbides	GS	stimulated emission devices
	inositols lactose		hafnium carbides		. lasers
	mannitol		molybdenum carbides		gas lasers carbon dioxide lasers
	monosaccharides		niobium carbides	RT	chemical lasers
	sucrose		silicon carbides		continuous wave lasers
	hexoses		tantalum carbides		gas masers
	galactose		titanium carbides tungsten carbides		infrared lasers
	glucose pentose		uranium carbides		Mach-Zehnder interferometers molecular oscillations
	ribose		vanadium carbides		organic lasers
	xylose		zirconium carbides		polar gases
RT	alcohols		. carbon dioxide		pulsed lasers
	ethyl alcohol		. carbon disulfide . carbon monoxide		Q switched lasers
~	∍food glycerols		. carbon monoxides		stimulated emission TEA lasers
~	nutrients		. carbon tetrachloride		waveguide lasers
	optical activity		. carbon tetrafluoride		wavegalae lacele
~	oxygen compounds		. carbonates		dioxide removal
	photosynthesis		bastnasite calcium carbonates	GS	removal
	stereochemistry synthetic food		akermanite	RT	. carbon dioxide removal air purification
	Synthetic rood		aragonite	111	decontamination
carbon			calcite		rebreathing
GS	chemical elements		chalk		smoke abatement
	. carbon		dolomite (mineral) polycarbonates		dioxide tension
	carbon isotopes carbon 12		Lexan (trademark)	GS	carbon dioxide tension
	carbon 13		siderites	ao	. hypercapnia
	carbon 14		sodium carbonates		. hypocapnia
RT	activated carbon		tetraethyl orthocarbonates		
	bitumens		. halocarbons		disulfide
	buckminsterfullerene carbon nanotubes		chlorocarbons chlorofluorocarbons	GS	carbon compounds . carbon disulfide
	charcoal		fluorocarbons		chalcogenides
	coke		halon		. sulfides
	decarburization		. carbon nitrides		disulfides
	diamonds		. fullerides		carbon disulfide
	fullerenes		carbonaceous materials chemical compounds		sulfur compounds . sulfides
	glassy carbon graphite		∘ Group 4A compounds		disulfides
	soot	C	hydrocarbons		carbon disulfide
			methylidyne		
carbon			Swan bands		fiber reinforced plastics
GS	chemical elements		avala.	UF	CFRP
	. carbon	carbon	cycle The path of carbon in living beings in	GS	composite materials
	carbon isotopes carbon 12		arbon dioxide is fixed by photosynthesis		. fiber composites carbon fiber reinforced plastics
	. nuclides		organic nutrients and ultimately restored		carbon-phenolic composites
	isotopes	to the in	norganic state by respiration and proto-		. polymer matrix composites
	carbon isotopes	plasmic	decay.		reinforced plastics

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

diseases

toxic diseases

. . . . ureilites

occupational diseases

pathological effects

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

GS hardening (materials) decarbonation RT decarboxylation carbon-phenolic composites carboxylic acids carburizing (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 carbon fibers ... oleic acid . vacuum tubes

. . . palmitic acid

phenolic resins

. . microwave tubes

	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
			cardiac auricles		C-131 aircraft
	traveling wave tubes				
РΤ	carcinotrons		cardiac ventricles		C-133 aircraft
RT	helitrons		epicardium		C-135 aircraft
	avviala		heart conduction system		C-140 aircraft
	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
(add	ed March 1991)		carotid sinus reflex		YC-14 aircraft
	output		cerebral vascular accidents	RT	air cargo
	. cardiac output		diastole		∞ aircraft
	heart minute volume		fat embolisms		Boeing 727 aircraft
	stroke volume				
RT	blood volume		head up tilt		Boeing 737 aircraft
nı			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
	ventricles		stroke volume		MH-262 aircraft
GS	anatomy	۰	∘ systems	c	∞ military aircraft
	. circulatory system		systole		monoplanes
	cardiovascular system		tilt-table test		passenger aircraft
	heart		the table tool		SC-7 aircraft
	cardiac ventricles	cards			supersonic transports
RT	diastolic pressure	GS	cards		·
	echocardiography	ao	. punched cards		T-39 aircraft
	His bundle	DT	· ·		TU-154 aircraft
		RT	computer storage devices		utility aircraft
	systole		data storage		VC-10 aircraft
!			•		very large transport aircraft
cardiog		caret w			
RT	biomedical data	GS	airfoils	cargo s	
	cardiography		. wings	UF	LOTS cargo ships
	heart		caret wings	GS	surface vehicles
			planforms		. cargo ships
cardiog	ıraphy		. caret wings		Savannah nuclear ship
GS	bioengineering	RT	arrow wings		tanker ships
	. biometrics		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		•
	phonocardiography	OOL	Site	DT	tanker ships
			Site	RT	artificial harbors
	echocardiography				deepwater terminals
	seismocardiography	cargo	6 : 11		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
	. , ,		freight costs		ferry spacecraft
cardiol	oav		harbors	c	∞ spacecraft
GS			hauling		-p
	. cardiology		materials handling	Cargon	naster aircraft
RT	angiography		Multi-Purpose Logistics Modules		C-133 aircraft
111	artificial cardiac pacemaker		railroad humping tests	OOL	C-100 all chart
	heart		1 0	Caribb	ean region
	heart diseases		rapid transit systems		The region that consists of all or parts
			transportation		slands of the Caribbean Sea, the Baha-
	heart rate		transportation energy		,
	radiocardiography		trucks		e British dependent territories, the Virgin
					and the mainland areas of the three
	achometers	cargo a			s and Belize.
GS	medical equipment	GS	transport aircraft	RT	Antigua and Barbuda
	. 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
	arterioles		C-119 aircraft		Virgin Islands
	-		· ·		<b>-</b>

West Indies solar cells sinuses

Caribbean Sea

GS seas

Caribbean Sea

Belize

Cuba

Dominican Republic

Gulf of Mexico Gulf Stream

Panama Canal Zone

Virgin Islands

Caribou aircraft

USE DHC 4 aircraft

#### caribous

GS animals

- . vertebrates
- . . mammals
- . . . deer
- . . . . caribous

#### Carme

(added January 1996)

A natural satellite of Jupiter orbiting at a mean distance of 22,600,000 kilometers.

GS celestial bodies

- . natural satellites
- . . Jupiter satellites
- Carme

RT Jupiter (planet)

GS organic compounds

- . cyclic compounds
- . . heterocyclic compounds
- . . carnitine
- . carnitine

An idealized reversible thermodynamic cycle. The Carnot cycle consists of four stages: (a) an isothermal expansion of the gas at temperature T1; (b) an adiabatic expansion to temperature T2; (c) an isothermal compression at temperature T2; (d) an adiabatic compression to the original state of the gas to complete the cycle.

GS cycles

. thermodynamic cycles

Carnot cycle

adiabatic conditions Rankine cycle

Stirling cycle

#### carotene

GS organic compounds

- hydrocarbons
- . carotene

pigments carotene

retinene

skin (anatomy)

#### carotenoids

RT

(added August 2004)

The general name for a group of fatsoluble pigments found in green, yellow, and leafy vegetables, and yellow fruits. They are aliphatic hydrocarbons consisting of a polyisoprene backbone

organic compounds

- . hydrocarbons
- . . aliphatic hydrocarbons
- ... carotenoids

pigments

carotenoids

terpenes

#### carotid sinus body

arteries

blood vessels

cardiovascular system carotid sinus reflex chemoreceptors

circulatory system

nerves

carotid sinus reflex

reflexes

. baroreflexes

. carotid sinus reflex

arteries

blood vessels

cardiovascular system

carotid sinus body

circulatory system heart function

nerves

sinuses

#### Carpathian Mountains (Europe)

landforms

. mountains

Carpathian Mountains (Europe)

RT

#### carriages

carts

chassis dollies

frames

landing gear

supports

undercarriages

#### carrier density (solid state)

The charge carrier concentrations of holes and/or electrons in a semiconductor which determines its electronic characteristics and function.

GS density (number/volume)

- . particle density (concentration)
- .. electron density (concentration)
- ... carrier density (solid state)

acceptor materials

carrier lifetime

carrier transport (solid state)

∞ carriers

donor materials

electron-hole drops

semiconductors (materials)

Zener effect

### carrier frequencies

GS frequencies

## carrier frequencies

carrier to noise ratios

frequency division multiplexing

harmonic generations

modulation

multiplexing

radio frequencies

single channel per carrier

transmission sweep frequency

unified S band

### carrier injection

injection GS

carrier injection additives

Barritt diodes

bipolar transistors carrier lifetime

charge carriers

charge transfer injection locking

ion injection

majority carriers minority carriers

radiative recombination

semiconductors (materials) Suhl effect

traveling solvent method

### carrier lifetime

GS life (durability) . carrier lifetime

carrier density (solid state) carrier injection

carrier mobility

carrier transport (solid state)

charge carriers

minority carriers

#### carrier mobility

GS electrical properties

. carrier mobility

. . electron mobility

. . hole mobility

mobility

#### . carrier mobility

. . electron mobility

. hole mobility transport properties

carrier mobility

. . electron mobility

. . hole mobility

carrier lifetime

electrical resistivity electromagnetic properties

excitons

Hall effect ion implantation

superconductors (materials)

carrier modulation USE modulation

carrier rockets

USE launch vehicles

## carrier sense multiple access

(added April 2000)
DEF A data transmission protocol for multiaccess networks where each node in the network senses traffic and waits for it to clear before transmitting; if two or more nodes transmit simultaneously, they wait a random interval before

attempting to re-transmit.

protocol (computers) carrier sense multiple access

telecommunication

. multiple access carrier sense multiple access

transmission

. signal transmission . . data transmission

. . . multiple access

... carrier sense multiple access

RT communication networks

computer networks

Ethernet local area networks

packet transmission

carrier systems

# USE wireless communication

carrier to noise ratios RF signal power input to the receiver

divided by the noise power input.

carrier frequencies

communication satellites

data transmission

downlinking Earth terminals

frequency modulation signal to noise ratios

transmission efficiency uplinking

carrier transport (solid state) DEF The mobility of conduction electrons or

holes in semiconductors. RT carrier density (solid state)

carrier lifetime diffusion length

energy conversion efficiency solar cells

carrier waves Waves generated at a point in the transmitting system and modulated by the sig-

nal. Used for subcarrier waves. subcarrier waves

radio spectra

RT modulation

∞ carriers

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

aircraft carriers

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 GS seas shock tunnels Cartan space Caspian Sea compressible flow RT coasts ∞ cascades fluid flow (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS potential flow Cassegrain antennas LISTED BELOW)
cascade control ∞ space 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 RT fiber optics . Cartesian coordinates cascode devices geometry geometrical optics (added August 1998) . Euclidean geometry mirrors DEF Amplifier devices consisting of a com-. . Cartesian coordinates cylindrical coordinates ∞ optics 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 Cassini mission amplifiers anatomy GS (added August 1988) . cascode devices . musculoskeletal system 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
USE field effect transistors Titan 4B launch vehicle 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 allovs . . cascade control clinical medicine castings RT ∞ cascades documentation mechanical properties ∞ control etiology microstructure electronic control phenomenology 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 packages GS casting . Cascade Range (CA-OR-WA) ∞ shelves forming techniques landforms . casting . mountains ∞ casing . Cascade Range (CA-OR-WA) . . centrifugal casting (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS California . . investment casting . . propellant casting LISTED BELOW)
coverings Oregon . rheocasting United States

enclosure

iackets

linings pipes (tubes) . . sand casting . . slip casting

RT baking

. squeeze casting

Washington

cascade wind tunnels

GS test facilities

	1.20		
	billets	superhumps (astronomy)	sea launching
	dies	white dwarf stars	
	extruding		cataracts
	forging	catalase	GS diseases
			. eye diseases
	inclusions	' '	cataracts
	ingots	. proteins	
	liquid metals	enzymes	RT lenses
	melting	catalase	occupational diseases
	metal working	organic compounds	
	• metallurgy	. proteins	catastrophe theory
		·	RT discontinuity
	microstructure	enzymes	,
	molding materials	catalase	divergence
	molds	RT cells (biology)	predictions
	mushy zones	, 3,,,	∞ theories
	pinholes	∞ catalogs	topology
		<del>.</del>	
	polymeric films	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	catchers
	pouring	LISTED BELOW)	RT electron bunching
	pultrusion	RT astronomical catalogs	
	resin transfer molding	catalogs (publications)	klystrons
	shrinkage		output
	solidification	hardware utilization lists	
	Conditioation	indexes (documentation)	catchment areas
		lists	USE watersheds
	solvents		
USE	plasticizers	catalogs (publications)	catecholamine
casting	s		GS organic compounds
GS	castings	. catalogs (publications)	. amines
ao		astronomical catalogs	catecholamine
	. ingots	RT ∞ catalogs	epinephrine
	. propellant casting	categories	norepinephrine
RT	billets	documentation	RT dopamine
	cast alloys		
	defects	information dissemination	hormones
		libraries	neurotransmitters
	degassing		
	flat patterns	catalysis	categories
	inclusions	GS catalysis	RT catalogs (publications)
	microstructure	•	classes
	molds	. autocatalysis	
		RT ∞ acceleration	∞ groups
	pinholes	activation	∞ sections
	pouring	catalytic activity	
	risers	cracking (chemical engineering)	catenaries
	solidification		GS geometry
		Fischer-Tropsch process	. curves (geometry)
Castor	2 engine	reaction kinetics	
	TX-354 engine		catenaries
USL	1A-334 engine	catalysts	. Euclidean geometry
		GS catalysts	analytic geometry
castor	Dil		catenaries
GS	oils	. electrocatalysts	outonarioo
	. castor oil	. Hopcalite (trademark)	catheterization
	organic compounds	. Ziegler catalyst	
		RT accelerating agents	RT blood vessels
	. lipids	additives	intravenous procedures
	castor oil		
RT	fatty acids	admixtures	cathetometers
	•	coal derived gases	GS measuring instruments
casts		coal derived liquids	<u> </u>
RT	damaga accocement	enzymes	. optical measuring instruments
וח	damage assessment	Grignard reactions	cathetometers
	gauze		optical equipment
	plasters	high energy fuels	. optical measuring instruments
	splints	inhibitors	cathetometers
		∞ initiators	
casualt	ies	platinum black	cathode glow
RT	death	propellant additives	
п		reagents	GS emission
	disasters		. light emission
	evacuating (transportation)	retardants	luminescence
		synthesis gas	cathode glow
CAT sca	anner		RT cathodoluminescence
USE	computer aided tomography	catalytic activity	glow discharges
002	compater alaca tomography	RT active sites (chemistry)	
4-6-1	!	, ,,	rarefied plasmas
catabol		activity (biology)	
GS	metabolism	autocatalysis	cathode ray tubes
	. catabolism	catalysis	DEF Vacuum tubes consisting essentially of
RT	physiology	cracking (chemical engineering)	an electron gun producing a concentrated elec
	priyolology	enzyme inhibitors	tron beam (or cathode ray) which impinges on
			, ,,
	smic variables	Fischer-Tropsch process	phosphorescent coating on the back of a view
GS	celestial bodies	phosphatases	ing face (or screen). The excitation of the phos
	. stars		phor produces light, the intensity of which i
	double stars	catalytic sites	controlled by the flow of electrons. Deflection of
	binary stars	(added August 2004)	the beam is achieved either electromagneticall
	cataclysmic variables	USE active sites (chemistry)	by currents in coils around the tube, or electron
	variable stars		statically by voltages on internal deflection
	cataclysmic variables	catapults	plates.
RT	dwarf stars	DEF A power-actuated machine or device	GS electron tubes
111			
	eclipsing binary stars	for hurling forth something, as an airplane or	. vacuum tubes
	flare stars	missile, at a high initial speed; also a device	cathode ray tubes
	hot stars	usually explosive, for ejecting a person from an	monoscopes
	novae	aircraft.	picture tubes
	periodic variations	GS launchers	RT display devices
	solar oscillations		
		. catapults	electron guns
	stellar flares	. rocket catapults	electron optics
	stellar mass ejection	RT aircraft launching devices	image tubes
	stellar oscillations	missile launchers	magnetic lenses

oscilloscopes face defects in materials. . . . cats printers diffraction fracture mechanics raster scanning **CATT** devices 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 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 corrosion tests grazing 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 . . cavitation flow coatings GS analysis (mathematics) . supercavitating flow cathodic coatings . complex variables bubbles anodic coatings ... Cauchy integral formula cavitation corrosion cladding electrode materials erosion 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 DEF Luminescence produced when high . real variables GS cavities velocity electrons bombard a metal in a vacuum, . . differential equations laser cavities . . . partial differential equations thus vaporizing small amounts of the metal RT apertures which, in an excited state, emit radiation char-Cauchy-Riemann equations boreholes RT analytic functions acteristic of the metal. caves ∞ equations GS emission cavity flow Godunov method . light emission ∞ cells . . luminescence crack geometry caulking ... cathodoluminescence cracks Material ranging in physical character-RT 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. moisture resistance catholytes holes (mechanics) plugging conductors o hollow GS interstices . electrolytes waterproofing . catholytes karst kettles (geology) RT 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 The locations of wave front interacperforated shells . positive ions  $\infty$  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-

plasma density

plasma physics

. vertebrates

. . mammals

plasma resonance . . digital computers . . . . CDC 7600 computer ... CDC 1604 computer cavity flow CDC 7600 computer (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 . cavity resonators **CDC** computers GS data processing equipment . superconducting cavity resonators GS data processing equipment circulators (phase shift circuits) . computers . computers cyclotron resonance devices . . CDC computers ... CDC computers ... CDC 3600 computer electron tubes . . . CDC 160-A computer field mode theory . . digital computers CDC 1604 computer ... CDC 3600 computer Helmholtz resonators CDC 3100 computer klystrons CDC 3200 computer CDC 3600 computer magnetrons CDC 3800 computer microwave resonance CDC 3800 computer GS data processing equipment multimode resonators CDC 6000 series computers . computers CDC 6400 computer oscillators . . CDC computers resonant frequencies . . . CDC 6600 computer . CDC 3800 computer traveling wave masers velocity modulation CDC 6700 computer . . digital computers CDC 7000 series computers ... ČDC 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 vaporizers . computers vapors . . CDC computers . CDC Cyber 174 computer
. CDC Cyber 203 computer
. CDC Cyber 205 computer
. CDC Star 100 computer ... CDC 6000 series computers .... 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 CDC 6400 computer
GS data processing equipment (added September 1995) CDC Cyber 74 computer optical equipment . . digital computers . . . CDC Cyber 74 computer cameras computers . . CDC computers
. . . CDC 6000 series computers
. . . . CDC 6400 computer . CCD cameras photographic equipment . cameras CDC Cyber 170 series computers GS data processing equipment . . digital computers . CCD cameras . computers ... CDC 6000 series computers CCD star tracker . . CDC computers charge coupled devices Clementine spacecraft ... CDC Cyber 170 series computers CDC Cyber 175 computer digital cameras CDC 6600 computer photography . . digital computers data processing equipment ... CDC Cyber 170 series . computers CCD star tracker computers . . CDC computers .... CDC Cyber 175 computer DEF Navigation instrument designed for the CDC 6000 series computers NASA space transportation system. Used for CDC 6600 computer stellar (star tracker). CDC Cyber 174 computer . . 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 data processing equipment . CDC 6700 computer CDC 160-A computer . computers . . digital computers 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

CDC 7000 series computers
GS data processing equipment

. computers

. . CDC computers

. . digital computers

... CDC 7000 series computers

... CDC 7000 series computers

. CDC 7600 computer

. . digital computers

... CDC computers .... CDC 1604 computer

CDC 1604 computer

computers

... CDC 160-A computer

data processing equipment

... ČDC Cyber 170 series computers

. . . CDC Cyber 175 computer

... CDC Cyber 203 computer

data processing equipment

CDC Cyber 203 computer

. computers

. . CDC computers

digital computers	celescopes	. infrared sources (astronomy)
CDC Cyber 203 computer	microwave equipment	infrared stars
020 0)20. 200 00paid.	. 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 Stor 100 computer	celescopes	achondrites
GS data processing equipment	RT solar 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
<b>,</b>	called heavenly bodies.	SNC meteorites
CDMA	GS celestial bodies	ureilites
USE code division multiple access	. asteroid belts	carbonaceous meteorites
	Toro asteroid	carbonaceous chondrites
CD-ROM	. asteroids	Alais meteorite
(added September 1992)	Amor asteroid	Allende meteorite
GS computer components	Amphitrite asteroid Apollo asteroids	Cold Bokkeveld meteorite
. computer storage devices	Ceres asteroid	Murchison meteorite
read-only memory devices	Chiron	Murray meteorite
CD-ROM 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 (g-)	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 . comets	Tonk meteorite Harleton meteorite
CEFOAM checkout equipment	Arend-Roland comet	Haileton meteorite
RT checkout	Austin comet	Okhansk meteorite
∞ test equipment	Brorsen-Metcalf comet	Pantar chondrites
toot oquipmom	Encke comet	Pribram meteorite
ceiling (aircraft capability)	Giacobini-Zinner comet	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
LISTED BELOW)	Okazaki-Levy-Rudenko comet	Draconid meteoroids
RT ceiling (aircraft capability)	Schwassmann-Wachmann comet	Geminid meteoroids Leonid meteoroids
ceilings (architecture)	Shoemaker-Levy 9 comet	Orionid meteoroids
ceilings (meteorology)	Tempel 1 comet Tempel 2 comet	Perseid meteoroids
acilings (architecture)	West comet	Quadrantid meteoroids
ceilings (architecture) 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	bolides
panels	. galaxies	Cyrillid meteoroids
reflectors	active galaxies	Draconid meteoroids
	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 sporadic meteoroids
cloud height indicators	Maffei galaxies Magellanic clouds	Taurid meteoroids
meteorological parameters meteorology	peculiar galaxies	. moonlets
visibility	ring galaxies	. natural satellites
viololity	shell galaxies	icy satellites
ceilometers	spiral galaxies	Ariel
USE cloud height indicators	Andromeda Galaxy	Callisto
<b>3</b> · · · · · · · · · · · · · · · · · · ·	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 mechanics

lapetus	hypothetical planets	R Coronae Borealis stars
Mimas	. protoplanets	supermassive stars
Rhea (astronomy)	. radio sources (astronomy)	triple stars variable stars
Tethys Titania	Cassiopeia A extragalactic radio sources	cataclysmic variables
Jupiter satellites	radio galaxies	cepheid variables
Adrastea	radio galaxies	flare stars
Amalthea	quasars	irregular variable stars
Carme	radio stars	R Coronae Borealis stars Lambda Tauri stars
Elara	pulsars	Mira variables
Galilean satellites	. solar system	Omicron Ceti star
Callisto	. star clusters	novae
Europa	globular clusters	dwarf novae
Ganymede lo	open clusters Pleiades cluster	Hercules nova
Himalia	Praesepe star clusters	semiregular variable stars
Leda	. stars	supernovae
Lysithea	black holes (astronomy)	supernova 1987A symbiotic stars
Metis	brown dwarf stars	T Tauri stars
Pasiphae	double stars	white holes (astronomy)
Sinope Thebe	binary stars	x ray stars
Mars satellites	cataclysmic variables companion stars	soft gamma repeaters
Deimos	Nemesis (star)	x ray binaries
Phobos	eclipsing binary stars	Population I stars Population II stars
moon	dwarf novae	Population III stars
Neptune satellites	Lambda Tauri stars	. massive compact halo objects
Galatea	Zeta Aurigae star	. meteorite parent bodies
Larissa	Sigma Orionis	. near Earth objects
Naiad	symbiotic stars	stellar systems
Nereid Proteus	x ray binaries	. trans-Neptunian objects
Triton	early stars hot stars	Charon
Pluto satellites	A stars	Pluto (planet)
Charon	B stars	Quaoar
Hydra	shell stars	. dwarf planets Ceres asteroid
Nix	Sigma Orionis	Pluto (planet)
Saturn satellites	blue stars	RT Aries constellation
Calypso	O stars	asteroid capture
Dione	white dwarf stars	astrodynamics
Enceladus	Wolf-Rayet stars	astrolabes
Epimetheus Helene	F stars G stars	astronomical observatories
Hyperion	Sun	astronomy
lapetus	giant stars	astrophysics
Janus	asymptotic giant branch stars	∞ bodies
Mimas	Omicron Ceti star	Cassiopeia constellation
Pandora	red giant stars	Centaurus constellation Corona Borealis constellation
Phoebe	carbon stars	Cygnus constellation
Prometheus	horizontal branch stars	gravitational waves
Rhea (astronomy)	infrared stars	impact melts
Telesto	late stars	interstellar matter
Tethys	cool stars	Lyra constellation
Titan Uranus satellites	carbon stars flare stars	orbits
Ariel	K stars	solar neighborhood
Cordelia	M stars	space flight
Miranda	Van Biesbroeck star	universe
Oberon	Mira variables	
Puck	Omicron Ceti star	celestial geodesy
Titania	S stars	DEF The determination of the form of the Earth, of the Earth's graviational field, and of
Umbriel	magnetic stars	relative positions of satellite trajectories.
. nebulae	magnetars	GS geodesy
Cassiopeia A Crab nebula	main sequence stars dwarf stars	. celestial geodesy
Grab nebula Gum nebula	dwarf stars	RT Explorer 29 satellite
H I regions	flare stars	Explorer 36 satellite
H II regions	red dwarf stars	geodetic satellites
Herbig-Haro objects	sun	GEOS 1 satellite
Orion nebula	massive stars	GEOS 2 satellite
planetary nebulae	metallic stars	GEOS 3 satellite International Satellite Geodesy
reflection nebulae	neutron stars	Experiment
solar nebula	magnetars	satellite laser ranging
. planetary rings	pulsars	time
Jupiter rings Saturn rings	soft gamma repeaters 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 gravita-
gas giant planets	Praesepe star clusters	tional fields.
Jupiter (planet)	. protostars	GS mechanics (physics)
Neptune (planet)	pre-main sequence stars	. classical mechanics
Saturn (planet)	T Tauri stars	space mechanics
Uranus (planet)	radio stars	celestial mechanics
terrestrial planets	pulsars	RT astrodynamics
Earth (planet) Mars (planet)	reference stars subdwarf stars	astronomy astrophysics
Mercury (planet)	subdwari stars	astrophysics ephemerides
Venus (planet)	supergiant stars	equations of motion
/ /	3 0.00.0	

## celestial navigation

	four body problem		proper motion		porous materials
	gravitational waves		zenith		resolution cell
	hyperbolic trajectories	cell an	adaa		solar cells
	Lagrangian equilibrium points long term effects	GS	electrodes		tissues (biology) topology
	many body problem		. anodes		topology
	orbital mechanics	DT	cell anodes	cells (b	iology)
	orbital resonances (celestial	RT	anions anolytes	UF	biological cells
	mechanics) orbits		cell cathodes	GS	cells (biology)
	perturbation theory		electrode materials		. blood cells erythrocytes
	planets	!!!	No. ada a		reticulocytes
	Roche limit	cell ca	electrodes		hemocytes
	Schach effect solar system	0.0	. cathodes		leukocytes
	stars		cell cathodes		eosinophils lymphocytes
	stellar orbits	RT	catholytes		monocytes
	SUN terrestrial planets		cations cell anodes		neutrophils
	terrestrial planets three body problem		electrode materials		. eukaryotes
	trajectory analysis		electrodeposition		. fibroblasts . gametocytes
	Trojan orbits	cell cu	Iturina		eggs
	two body problem Wolf-Rayet stars		led August 2004)		zygotes
	Woll-nayer stars	DEF	A technique for maintenance or growth		spermatozoa
	ıl navigation		al cells in vitro. It refers to the culturing of		. macrophages . neurons
	The process of directing a craft from		rived from dispersed cells taken from the tissue, from a primary culture, or from a		axons
	nt to another by reference to celestial of known constants.		or cell strain by enzymatic, mechanical,		dendrites
	navigation	or chen	nical disaggregation.		neuroblasts
	celestial navigation	GS	culture techniques		. cultured cells . osteoblasts
	Astroguide Navigation System	RT	. cell culturing cells (biology)		. prokaryotes
RT	astronavigation air navigation	П	clone cells		. protoplasts
п	autonomous navigation		culture media		. stem cells
	CCD star tracker		cultured cells		clone cells . muscle cells
	inertial navigation		microbiology organ culturing		muscle fibers
	injection guidance interplanetary navigation		tissue culturing	RT	anatomy
	polar navigation		tissue engineering		apoptosis
	radar navigation			۰	∘ biology cancer
	radio navigation	cell div GS	cytogenesis		catalase
	reference stars solar position	ao	. cell division		cell culturing
	space navigation	RT «	∞ division		cell membranes (biology)
	spacecraft guidance		mitosis	۰	ocells chlorophylls
	star trackers		reproduction (biology) stem cells		chloroplasts
	surface navigation		Sterri Celis		chromosomes
celestia	l observation	cell line			cloning (biology)
USE	astronomy		led December 2004)		culture media cytogenesis
colootic	l reference aveteme	USE	cultured cells		cytology
RT	Il reference systems air navigation	cell me	embranes (biology)		cytometry
• • • •	astronomical coordinates	GS	membranes		cytoplasm
	astronomical maps	ОТ	. cell membranes (biology)		endoplasmic reticulum endothelium
	azimuth	RT	cells (biology) cytology		ganglia
	coordinates geocentric coordinates		ion channels (biology)		hematopoiesis
	inertial reference systems		osmosis		hemoglobin
	interplanetary navigation	ممال ما	voialage.		histochemical analysis
	interstellar travel		vsiology led August 2004)		interleukins Krebs cycle
	laser guide stars planetocentric coordinates		cytology		lysosomes
	proper motion				mitochondria
0	reference systems	celloph	nane cellulose		mitosis mutagens
	solar longitude		∞ polymers		mutations
0	spherical coordinates systems				necrosis
	- dydiome	∞ cells	(105.05.4.140.05.00501510.75014.10		neuroglia
	ll sphere	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		neurotransmitters nuclei (cytology)
	An imaginary sphere of infinite radius ric with the Earth, on which all celestial	RT	LISTED BELOW)		organelles
	except the Earth are assumed to be	ΠI	activation (biology) cavities		organs
projecte			cells (biology)		plasmolysis
GS	symmetrical bodies		compartments		plastids ribosomes
	. bodies of revolution spheres		cores electrochemical cells		sarcoplasmic reticulum
	celestial sphere		electrochemical cells		tissue engineering
RT	Aries constellation		fillers		tissues (biology)
	astronomical maps		fuel cells		
	Cassiopeia constellation Centaurus constellation		geophysical fluid flow cells hexagonal cells		automata ed May 2003)
	constellations		honeycomb structures		ed May 2003)  A discrete, dynamical system consist
	Corona Borealis constellation		Kerr cells		regular array of cells, each of which cal
	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 se
	Lyra constellation orbital position estimation		photoconductive cells photoelectric cells	ot local cells.	rules based on the state of neighboring
	planispheres		photovoltaic cells	RT	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) The carbohydrate that is the principal DEF data processing
. censored data (mathematics) GS centerbodies constituent of wood and forms of structural RT afterbodies framework of the wood cells. 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 ∞ 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 esters to 30,000 MHz range. . 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 launch vehicles Costa Rica 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) barycenter GS sites UF sealing center of mass . Central Atlantic Regional Ecol RT Test Site ∞ centers CEMS system test facilities centroids USE Central Electronic Management . Central Atlantic Regional Ecol gravitational fields System **Test Site** lunar rotation ecology Cenozoic Era mass environment protection moments of inertia (added June 1989) DEF An era of geologic time, from the becentral bulge (galaxies) ginning of the Tertiary Period to the present. center of mass USE galactic bulge (Some authors do not include the Quarternary, DEF A point of a material body or system of 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

forces were applied at the point.

. center of mass

center of gravity

mass

mascons

GS

RT

advanced mollusks, and birds and paleobotani-

cally, by angiosperms. The Cenozoic Era is

considered to have begun about 65 million years

ago

GS Cenozoic Era

CEMS system

management

GS

data processing

**Central Electronic Management** 

System

∞ 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 USE headache Hungary pumps Poland radial flow cephalopods Romania rotors GS animals West Germany superchargers . invertebrates turbocompressors . . mollusks central nervous system ... cephalopods GS anatomy centrifugal force . . . . octopuses 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 RT Cepheus constellation . . . . . cerebral cortex Goertler instability . . . . . occipital lobes Cepheus constellation . . . diencephalon centrifugal pumps constellations . . . . hypothalamus pumps GS Cepheus constellation .... pineal gland centrifugal pumps cepheid variables 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 RT 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 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 cyclones (equipment) centrifuges tranquilizers UF ... cepstral analysis GS spectrum analysis central nervous system stimulants . human centrifuges cepstral analysis RT GS drugs centrifugal force acoustic measurement centrifuging centripetal force . stimulants audio frequencies . . 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 ∞ test equipment ceramal protective coatings ... Central Piedmont (US) training simulators USE cermets RT mountains protective coatings centrifuging central processing units RT centrifuges ceramals The units of computing systems that clinorotation USE 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 GS 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 logic circuits . centrifuging stress . . ceramic coatings microprocessors acceleration tolerance . protective coatings gravitational physiology . . ceramic coatings registers (computers) carbon nitrides gravity perception finishes centrifugal casting forming techniques metal coatings centripetal force

RT angular acceleration

porcelain

GS

. casting

sprayed coatings abrasives scintillation counters vacuum deposition Bakelite (trademark) Cerenkov effect bricks ceramic fibers ceramic bonding USE Cerenkov radiation DEF Fibers composed of ceramic materials. ceramic fibers They are usually used for reinforcement. ceramic matrix composites Cerenkov radiation DEF The radiation from a charged particle ĞS fibers cermets . synthetic fibers whose velocity is greater than the phase velocity clays . 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 cordage heat engines electromagnetic radiation high temperature superconductors injection molding fiber composites Cerenkov radiation fiber orientation bremsstrahlung masonry ∞ materials science fiber strength corpuscular radiation filament winding cosmic rays mortars (material) photoacoustic microscopy ∞ effects ∞ filaments polycarbosilanes gamma ray bursts reinforcing fibers pyrolytic materials reaction bonding 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 DEF As a key component of the Earth Observing System (EOS) program, the Clouds and honeycomb structures vitrification 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 radiative fluxes within the Earth's atmosphere. reinforced ceramic matrix. 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 sphere to the Earth's surface from three broadboron reinforced materials . . . . 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 GS composite structures programs . . . . cerebrum . projects 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 clouds (meteorology) nanocomposites ∞ 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 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 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 uses range from china for dishes to refractory GS measuring instruments liners for nozzles. . counters cerium ceramics . . radiation counters GS chemical elements . ceramic nuclear fuels ... Cerenkov counters . rare earth elements . lead zirconate titanates . radiation measuring instruments . . cerium . piezoelectric ceramics . . . cerium isotopes . . radiation counters

Cerenkov counters

RT Alpha Magnetic Spectrometer

. porcelain

. Pyroceram (trademark)

. . . . cerium 137

. . . . cerium 144

	metals	GS	composite materials		cesium 134
	. rare earth elements		. cermets		radioactive isotopes
	cerium	RT	ceramic matrix composites		cesium 134
	cerium isotopes	• • • •	ceramic nuclear fuels		metals
	cerium 137		ceramics		. alkali metals
-	cerium 144		combustion synthesis		cesium
RT	mischmetal		heat resistant alloys		cesium isotopes
			metals		cesium 134
cerium			powder metallurgy		
GS	chemical elements		refractories	cesium	137
	. nuclides		refractory materials		chemical elements
	isotopes		YBCO superconductors	do	
	cerium isotopes		1 BOO Superconductors		. alkali metals
	cerium 137	certifica	ation		cesium
					cesium isotopes
	radioactive isotopes		Personnel - The act of verifying and		cesium 137
	cerium 137		nting that personnel have completed		. nuclides
	. rare earth elements		I training and have demonstrated spe-		isotopes
	cerium	cific pro	ficiency. Process & Software - An act,		cesium isotopes
	cerium isotopes	whereby	a responsible official provides a written		
	cerium 137		ee that a product, process, or service		cesium 137
	metals		all performance and design require-		radioactive isotopes
		ments.	an performance and design require		cesium 137
	. rare earth elements		airereft reliability		metals
	cerium	RT	aircraft reliability		. alkali metals
	cerium isotopes		checkout		cesium
	cerium 137		evaluation		cesium isotopes
			flight tests		cesium 137
cerium	144		performance tests		Cesiuiii 137
GS	chemical elements		physiological tests		
ao	. nuclides			cesium	144
			psychological tests	GS	chemical elements
	isotopes		qualifications		. alkali metals
	cerium isotopes		quality control		cesium
	cerium 144		selection		
	radioactive isotopes		site selection		cesium isotopes
	cerium 144		training evaluation		cesium 144
	. rare earth elements		a an inig o valuation		. nuclides
		cesium			isotopes
	cerium		ahamiaal alamanta		cesium isotopes
	cerium isotopes	GS	chemical elements		cesium 144
	cerium 144		. alkali metals		
	metals		cesium		radioactive isotopes
	. rare earth elements		cesium isotopes		cesium 144
	cerium		cesium 133		metals
	cerium isotopes		cesium 134		. alkali metals
	cerium 144		cesium 137		cesium
	Cerium 144		cesium 144		cesium isotopes
					cesium 144
	compounds		metals		ocsium 144
GS	rare earth compounds		. alkali metals		
	. cerium compounds		cesium	cesium	alloys
	bastnasite		cesium isotopes	GS	alloys
	cerium oxides		cesium 133		. cesium alloys
RT ∝	chemical compounds		cesium 134	RT	alkali metals
	metal compounds		cesium 137		cesium
	metal compounds				Cesium
			cesium 144		
	isotopes	RT	cesium alloys	cesium	antimonides
GS	chemical elements		cesium antimonides	GS	antimony compounds
	. nuclides		cesium bromides		. antimonides
	isotopes		cesium diodes		cesium antimonides
	cerium isotopes		cesium engines		
	cerium 137		cesium fluorides		cesium compounds
	cerium 144		cesium halides		. cesium antimonides
				RT	cesium
	. rare earth elements		cesium hydrides		
	cerium		cesium iodides	accium	bromides
	cerium isotopes		cesium ions		
	cerium 137		cesium plasma	GS	cesium compounds
	cerium 144		cesium vapor		. cesium halides
	metals		oodan vapor		cesium bromides
	. rare earth elements	cesium	133		halogen compounds
		GS	chemical elements		. bromine compounds
	cerium	GS			bromides
	cerium isotopes		. alkali metals		cesium bromides
	cerium 137		cesium		
	cerium 144		cesium isotopes		. halides
			cesium 133		bromides
cerium	ovides		. nuclides		cesium bromides
GS	chalcogenides		isotopes		metal halides
as					alkali halides
	. oxides		cesium isotopes		cesium halides
	metal oxides		cesium 133		cesium bromides
	cerium oxides		metals	DT	
	rare earth compounds		. alkali metals	RT	cesium
	. cerium compounds		cesium		
	cerium oxides		cesium isotopes	cesium	compounds
	- voices = ==================================		cesium 133		cesium compounds
cermets	•		occium 100	40	. cesium antimonides
			124		
DEF	Bodies consisting of ceramic particles	cesium			. cesium halides
	with a metal; used in aircraft, rockets,	GS	chemical elements		cesium bromides
	cecraft for high strength, high tempera-		. alkali metals		cesium fluorides
	olications. The name is derived from a		cesium		cesium iodides
	ation of CERamic and METal. Used for		cesium isotopes		. cesium hydrides
	protective coatings and ceramals.		cesium 134		. cesium oxides
				DT	
UF	ceramal protective coatings		. nuclides		alkali metal compounds
	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 . Cessna 205 aircraft
	electron tubes	GS	chemical elements	RT o	∞ aircraft
	. thermionic diodes		. alkali metals		
	cesium diodes		cesium		210 aircraft
	. vacuum tubes		cesium isotopes	UF	Centurion aircraft
	cesium diodes		cesium 133 cesium 134	GS	Cessna aircraft
	electronic equipment . diodes		cesium 134		. Cessna 210 aircraft general aviation aircraft
	thermionic diodes		cesium 144		. Cessna 210 aircraft
	cesium diodes		. nuclides		light aircraft
RT	cesium		isotopes		. Cessna 210 aircraft
	plasma diodes		cesium isotopes		monoplanes
	thermionic converters		cesium 133		. Cessna 210 aircraft
			cesium 134 cesium 137		passenger aircraft . Cessna 210 aircraft
<b>cesium</b> GS	engines engines		cesium 144		single engine aircraft
do	. rocket engines		metals		. Cessna 210 aircraft
	electric rocket engines		. alkali metals		
	electrostatic engines		cesium		402B aircraft
	ion engines		cesium isotopes		A lighter, twin-engine, short-haul
	cesium engines		cesium 133		assenger aircraft manufactured by the
RT	cesium		cesium 134 cesium 137		Aircraft Company. Cessna aircraft
!	fluorides		cesium 144	ao	. Cessna 402B aircraft
	fluorides cesium compounds		dodiam		general aviation aircraft
ao	. cesium halides	cesium	oxides		. Cessna 402B aircraft
	cesium fluorides	GS	cesium compounds		light aircraft
	halogen compounds		. cesium oxides		. Cessna 402B aircraft
	. fluorine compounds		chalcogenides		monoplanes . Cessna 402B aircraft
	fluorides		. oxides . metal oxides		passenger aircraft
	metal fluorides		cesium oxides		. Cessna 402B aircraft
	cesium fluorides . halides				transport aircraft
	fluorides	cesium			. short haul aircraft
	metal fluorides	GS	particles		Cessna 402B aircraft
	cesium fluorides		. charged particles	RT •	∞ aircraft
	metal halides		energetic particles plasmas (physics)	Cocena	a aircraft
	alkali halides		metallic plasmas		Cessna aircraft
	cesium halides		cesium plasma	0.0	. 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 . T-37 aircraft
GS	cesium compounds	111	thermionic converters	RT 。	∞ aircraft
	. cesium halides cesium bromides				anoran
	cesium fluorides	cesium		Cessna	L-19 aircraft
	cesium iodides	GS	chemical elements	GS	Cessna aircraft
	halogen compounds		. alkali metals		. Cessna L-19 aircraft
	. halides		cesium vapor . nuclides		light aircraft . Cessna L-19 aircraft
	metal halides		. isotopes		monoplanes
	alkali halides		cesium vapor		. Cessna L-19 aircraft
	cesium halides		metals		observation aircraft
	cesium bromides cesium fluorides		. alkali metals		. Cessna L-19 aircraft
	cesium iddides		cesium vapor		reconnaissance aircraft
RT	cesium		vapors	БТ	. Cessna L-19 aircraft
		RT	. cesium vapor cesium	HI º	∞ aircraft
cesium	hydrides	п	mercury vapor	CETA c	eart (ISS)
GS	cesium compounds		mercury vapor		ed December 2002)
	. cesium hydrides	Cessna	172 aircraft	USE	Crew Equipment Translation Aid
	hydrogen compounds	GS	Cessna aircraft		(ISS)
	. hydrides metal hydrides		Cessna 172 aircraft		
	cesium hydrides		general aviation aircraft	cetane	
RT	cesium		. Cessna 172 aircraft light aircraft	GS	organic compounds . hydrocarbons
			. Cessna 172 aircraft		aliphatic hydrocarbons
cesium	iodides		monoplanes		alkanes
GS	cesium compounds		. Cessna 172 aircraft		cetane
	. cesium halides		passenger aircraft		
	cesium iodides		Cessna 172 aircraft		ompounds
	halogen compounds		single engine aircraft	GS	alkyl compounds
	. halides metal halides	D.T.	. Cessna 172 aircraft	DT	. cetyl compounds
	alkali halides	HI∝	aircraft	ĦI °	∞ chemical compounds
	cesium halides	Cessna	205 aircraft	Ceylon	
	cesium iodides	GS	Cessna aircraft		Sri Lanka
	. iodine compounds	-	. Cessna 205 aircraft	-	
	iodides		general aviation aircraft		aircraft
F.T.	cesium iodides		Cessna 205 aircraft	USE	Canadair aircraft
RT	cesium		light aircraft		F-104 aircraft
	iono		. Cessna 205 aircraft	OF 700	ongino
<b>cesium</b> GS	ions		monoplanes . Cessna 205 aircraft	GS GS	engine engines
us	. cesium ions		passenger aircraft	as	. air breathing engines
			r		3.3449 09.1100

	gas turbine engines		military holicontors	~	links
	jet engines		military helicopters CH-46 helicopter		molecular chains
	turbojet engines		tandem rotor helicopters		molecular chairis
	turbojet erigines		CH-46 helicopter		
	CF-700 engine		Cri-40 nelicoptei	chairs	
	. internal combustion engines	CH-47 I	nelicopter	USE	seats
	gas turbine engines	UF.	Chinook helicopter		
	jet engines	O.	HC-1 helicopter	chalcog	genides
	turbojet engines	GS	Boeing aircraft	GS	chalcogenides
	turbojet 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 I	nelicopter		chlorine oxides
USE	charge flow devices	USE	H-53 helicopter		dioxides
					carbon dioxide
CFRP			nelicopter		flint
USE	carbon fiber reinforced plastics	UF			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	011.00.1	. Parada		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	ОТ	CH-62 helicopter		cesium oxides
GS	Boeing aircraft	HI∘	military aircraft		chromium oxides
	CH-21 helicopter	CH-113	helicopter		cobalt oxides
	transport aircraft		CH-46 helicopter		copper oxides
	. cargo aircraft	OOL	OII-40 Helicoptei		gallium oxides
	CH-21 helicopter	Chad			hafnium oxides
	V/STOL aircraft	GS	nations		iron oxides
	. rotary wing aircraft		. Chad		hematite
	helicopters	RT	Africa		ilmenite
	military helicopters				magnetite
	CH-21 helicopter	chaff			lanthanum oxides lead oxides
CH 24	holioontor	GS	countermeasures		
UF	helicopter Choctaw helicopter		. electronic countermeasures		lithium oxides manganese oxides
Oi	H-34 helicopter		chaff		Hopcalite (trademark)
GS	Sikorsky aircraft	RT	deception		morcanie (trademark)
ao	. CH-34 helicopter		electronic warfare		mixed oxides
	transport aircraft		radar echoes		BSCCO superconductors
	. CH-34 helicopter				YBCO superconductors
	V/STOL aircraft		eactions (chemistry)		molybdenum oxides
	. rotary wing aircraft	(adde	ed May 1999)		nickel oxides
	helicopters	GS	chemical reactions		niobium oxides
	military helicopters		. chain reactions (chemistry)		platinum oxides
	CH-34 helicopter	RT	chemical lasers		platinum oxides
RT	S-58 helicopter		combustion chemistry		potassium oxides
	op.o/				scandium oxides
CH-46	helicopter		eactions (nuclear physics)		silver oxides
UF	CH-113 helicopter	`	ed May 1999)		sodium peroxides
٥.	HRB-1 helicopter	GS	nuclear reactions		strontium oxides
	Sea Knight helicopter		. nuclear fission		tantalum oxides
	Voyageur helicopter		chain reactions (nuclear		thorium oxides
GS	Boeing aircraft		physics)		tin oxides
40	. CH-46 helicopter	RT	fission products		titanium oxides
	passenger aircraft		neutrons		anatase
	. CH-46 helicopter	-6-4			ilmenite
	transport aircraft	chains	(EVOLUDED OUTSTANDAY DOCUMENT		rutile
	. CH-46 helicopter	SN	(EXCLUDES CHEMICAL BONDS AND NUCLEAR REACTIONS)		tungsten oxides
	V/STOL aircraft	RT o	barriers		scheelite
	. rotary wing aircraft	111 *	cables (ropes)		uranium oxides
	helicopters		fasteners		vanadium oxides

	yttrium oxides	Space	Shuttle mission 31-B		terrain analysis
	zinc oxides		Shuttle mission 31-C		torrain analysis
	zirconium oxides		Shuttle mission 31-D	channel	capacity
	yttria-stabilized zirconia	•	Shuttle mission 41-B		Aloha system
	. nitrogen oxides	· ·	Shuttle mission 41-C		bandwidth
	nitric oxide		Shuttle mission 41-G	000	capacity
	nitrogen dioxide		Shuttle mission 51-B		cochannel interference
	nitrogen tetroxide		Shuttle mission 51-E		demand assignment multiple access
	nitrous oxides		Shuttle mission 51-F		frequencies
					packet transmission
	phosphorus oxides		Shuttle mission 51-L		transmission rate (communications)
	pyroxenes		Shuttle mission 61-A		tiansimission rate (communications)
	enstatite	∞ space	craft	channel	flow
	selenium oxides	- chambara			fluid flow
	silicon oxides	∞ chambers	DE A MODE ODECIFIC TERM IS	ao	. internal flow
	muscovite		OF A MORE SPECIFIC TERM IS  MMENDEDCONSULT THE TERMS		channel flow
	nephelite		D BELOW)		open channel flow
	silicon dioxide	RT anech	oic chambers	RT	
	quartz	arc ch	ambers	nı	annular flow
	coesite	bubble	e chambers		Brinkman number
	stishovite	cloud	chambers		cavity flow
	spodumene	combu	ustion chambers		choked flow
	sulfur oxides		rical chambers		corner flow
	sulfur dioxides	flexing			dredged materials
	. selenides	•	hambers		ducted flow
	cadmium selenides		paric chambers		flow geometry
	copper selenides	,,,	tion chambers		fluid injection
	copper indium selenides		n chambers		incompressible fluids
	gallium selenides	•	ure chambers		outlet flow
	indium selenides	· ·			pipe flow
	copper indium selenides		eration chambers		wall flow
	lead selenides	•	chambers		
			nambers	channel	multipliers
	zinc selenides		chambers	UF	channeltrons
	. sulfides	vacuu	m chambers		multipliers
	disulfides			ao	. channel multipliers
	carbon disulfide	Chance-Vough	nt aircraft	DT	auroral spectroscopy
	inorganic sulfides	RT ∞ aircraf	it	RT	1 17
	barium sulfides				electron avalanche
	bismuth sulfides	Chandler motion	on		microchannel plates
	cadmium sulfides	USE polar	wandering (geology)		photomultiplier tubes
	calcium sulfides				radiation counters
	copper sulfides	Chandler wob	ble		
	hydrogen sulfide		tember 1992)	channel	noise
	indium sulfides		UDES CHANDLER MOTION)	DEF	In communications bursts of interrup
			vement in the Earth's axis of	tive pulse	es caused mainly by contact closures in
	lead sulfides		period of motion is about 14	electrom	agnetic equipment or by transient volt
	molybdenum sulfides		for Eulerian nutation.		electric cables during transmission of
	molybdenum disulfides				or data. Impulsive noise is the frequen
	polysulfides		an nutation		transmission errors.
	strontium sulfides	GS nutation			Aloha system
	zinc sulfides		ndler wobble	111	
	wurtzite	RT Earth			background noise
	zincblende	∞ Earth	motion		cochannel interference
	pyrites	Earth	orientation		electromagnetic noise
	pyrrhotite	Earth	rotation		noise spectra
	troilite	geody	namics		random noise
	. tellurides	geoph			signal to noise ratios
	bismuth tellurides	• .	wandering (geology)		thermal noise
	cadmium tellurides	pola	ag (goology)		time division multiple access
		Chandra X Ray	Astrophysics Facility		trellis coding
	indium tellurides	(added Mar	, ,		· ·
	lanthanum tellurides		Astrophysics Facility	channel	wings
	lead tellurides	USL X Hay	Astrophysics Facility	GS	airfoils
	mercury tellurides	Chandrasekha	ar aquation		. wings
	mercury cadmium tellurides				channel wings
	tin tellurides		sis (mathematics) variables		planforms
	zinc tellurides				. wing planforms
RT ∘	Group 6A compounds		erential equations		channel wings
			handrasekhar equation	RT	aerodynamic configurations
chalk			omagnetic absorption	111	aircraft design
GS	calcium compounds	∞ equati	ons		
us	calcium compounds				aircraft parts
	. calcium carbonates	change detect	ion		aircraft structures
	chalk	DEF A pro	cess of examining imagery to		
	carbon compounds	detect changes	on a planetary surface or astro-	∞ channel	
	. carbonates	nomical body.	, ,	SN	(USE OF A MORE SPECIFIC TERM IS
	calcium carbonates	GS detect	ion		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)
	chalk		ige detection	RT	channels (data transmission)
RT	gypsum		photography		computer storage devices
			reconnaissance		
Challan	ger (Orbiter)				dredged materials
	ger (Orbiter)		Resources Program		ducts
UF	Space Shuttle Orbiter 099	•	classification		frequencies
GS	manned spacecraft		processing		media
	. space shuttles	image			parallel plates
	Space Shuttle orbiters	land u	se		structural members
	Challenger (Orbiter)	multis	pectral band scanners		telecommunication
	reentry vehicles		pectral photography		throats
	. recoverable spacecraft		n recognition		
	reusable spacecraft		nterpretation	channel	s (data transmission)
	space shuttles	•	•	UF	data busses
			imagery		
	Space Shuttle orbiters		e sensing	RT	asynchronous transfer mode
	Challenger (Orbiter)		analysis		channels
RT	Endeavour (orbiter)	side-lo	ooking radar	∞	data

data links hole distribution (electronics) resolution 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 ing. GS channeltrons eigenvectors USE channel multipliers efficiency characteristic functions . charge efficiency battery chargers chaos USE eigenvalues RT (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) ĞS 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 RT ∞ equations GS electronic equipment 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 carbon Chapman-Enskog theory ∞ sensors Enskog-Chapman theory kinetic theory coke ÚF fuels GS charge injection devices . transport theory UĒ ČID charge carriers . Chapman-Enskog theory GS electronic equipment Boltzmann transport equation GS charge carriers RT . 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 provides the input stimulus to the next. Use for magnetopause charge transfer (EXCLUDES COLLISIONAL CHARGE EXCHANGE) carrier injection CCD. ∞ problems SŇ CCD UF solar wind electronic equipment charged particles electron transfer solid state devices Chapman-Jouget flame chemical equilibrium . . semiconductor devices ion exchanging detonation ... charge transfer devices ionic reactions ... charge coupled devices flame propagation 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 detectors charge distribution GS electronic equipment graphology . solid state devices GS distribution (property) . . semiconductor devices handwriting . charge distribution ... charge transfer devices legibility electrical properties . . . bucket brigade devices . charge distribution optical data processing . . . . charge coupled devices current distribution optical scanners RT . . . . charge injection devices
RT ITO (semiconductors)

electron distribution

electrostatic charge

organic charge transfer salts

force distribution

perception

readers reading

	tunable filters	RT	antineutrinos		planetary orbits
			antiparticles		Pluto (planet)
charged	particles		bosons		solar system
	(FOR IONIC PARTICLES SEE IONS)		charge transfer corpuscular radiation		Titan
	particles		Coulomb collisions	Charpy	impact test
	charged particles		Coulomb potential		impact tests
	antiprotons energetic particles		cyclotron frequency		Charpy impact test
	electrons		cyclotron radiation		notch tests
	conduction electrons		cyclotron resonance deuteron irradiation	RT	. Charpy impact test brittleness
	free electrons		electron-positron pairs	111	drop tests
	high energy electrons		elementary particles		hardness
	relativistic electron beams		eta-mesons	~	materials tests
	hot electrons N electrons		gyrofrequency		notch sensitivity
	negatrons		Helios Project	charring	n
	photoelectrons		hyperons	RT	ablation
	pi-electrons		ion charge kaons		carbonization
	polarons		leptons		combustion
	solar electrons		Lorentz force		decomposition
	nuclei (nuclear physics) alpha particles		meson-nucleon interactions		fire damage
	deuterons		mesons		oxidation thermal absorption
	even-even nuclei		muon spin rotation muons		anomial aboorphon
	heavy nuclei		neutral sheets	charts	
	hypernuclei		neutrons	GS	charts
	odd-even nuclei		nonadiabatic theory		. flow charts
	odd-odd nuclei tritons	~	nuclei		graphs (charts) bond graphs
	plasmas (physics)		nucleon-nucleon interactions		Gompertz curves
	argon plasma		nucleons		. Mollier diagram
	beta particles		omega-mesons particle charging		Patterson map
	boundary layer plasmas		particle precipitation		. meteorological charts
	cold plasmas		particle trajectories	DT	. nautical charts
	collisional plasmas strongly coupled plasmas		pions	RT	block diagrams diagrams
	collisionless plasmas		Reissner-Nordstrom solution		display devices
	cosmic plasma		rho-mesons		drawings
	cylindrical plasmas		sigma-mesons single event upsets		graphic arts
	dense plasmas		trapped particles		maps
	plasma focus				navigation aids
	strongly coupled plasmas  electron plasma  ∞ (	chargin		~	nomographs plots
	electron plasmas	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		statistical analysis
	elliptical plasmas		LISTED BELOW)		statistical tests
	helium plasma	RT	battery chargers		visual aids
	high temperature plasmas		charge efficiency		
	hydrogen plasma		electric charge electrostatic charge	chassig	
	deuterium plasma		explosive devices		ed August 1991) Achondritic stony meteorites com-
	laser plasmas metallic plasmas		explosives		Ilmost entirely (958) of olivine, with ac-
	cesium plasma		filling		amounts of chromite, and lacking
	uranium plasmas		injection		on. It resembles terrestrial dunite.
	microplasmas		magnetic charge density	GS	celestial bodies
	nitrogen plasma		SCATHA satellite		. meteorites
	nonequilibrium plasmas nonuniform plasmas	harm (	particle physics)		stony meteorites achondrites
	oxygen plasma		A quantum number which has been		chassignites
			d to account for an apparent lack of	RT	nakhlites
	relativistic plasmas		ry in the behavior of hadrons relative to		shergottites
	The second processes		eptons, to explain why certain reactions		SNC meteorites
	· · · · · · · · · · · · · · · · · · ·		entary particles do not occur, and to for the longevity of the J particle.	chassis	
	space plasmas solar wind	RT	hadrons	GS	frames
	stellar winds		leptons		. chassis
	dusty plasmas		particle interactions	RT	automobiles
	spherical plasmas		particle theory		carriages
	thermal plasmas	~	physics	~	headers
	toroidal plasmas		quantum theory theoretical physics		struts supports
	ionized gases Lorentz gas		illeoretical physics		undercarriages
		Charon			
	radiation belts	DEF	Natural satellite of the planet Pluto,		hev approximation
	artificial radiation belts	liscove	red and named by Dr. James W. Christy.	GS	, ,
	inner radiation belt	GS	celestial bodies		. numerical analysis approximation
	outer radiation belt		. natural satellites		Chebyshev approximation
	proton belts partons		Pluto satellites Charon	RT	series (mathematics)
	plasma clouds		. trans-Neptunian objects		statistical analysis
	magnetic clouds		Charon		•
	plasma jets	RT	Callisto	checko	
	radio jets (astronomy)		Deimos	SN	(SEQUENCE OF TESTS TO DETERMINE FUNCTIONAL READINESS OF
	plasma layers		Earth-Moon system	5	EQUIPMENT)
	plasma sheaths plasma slabs		Europa Galilean satellites		A sequence of actions taken to test or a thing as to its readiness for incorpo-
	positrons		Ganymede		nto a new phase of use, or for the
	positiono				
	protons		lapetus	performa	ance of its intended function. The se-
	protons		lapetus Io		ance of its intended function. The se- of steps taken to familiarize a person
				quence	

of equip	ment. Used for debugging.	0	measurement		barium ion clouds
UF	debugging		metallicity	RT	chemical release modules
	aircraft maintenance		methylene blue		CRRES (satellite)
111	CEFOAM checkout equipment		moisture meters		particles
					•
	certification		mutagens		plasma clouds
	cold flow tests		nephanalysis		
	countdown		optical measurement		al compatibility
	file maintenance (computers)		particle tracks	(adde	ed September 1995)
	inspection		particulate sampling	GS	compatibility
	maintenance		photometry		. 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		Stability
	•				-1
	test equipment		sampling		al composition
00	tests		spectral signatures	GS	composition (property)
abaaltau	t aguinmant		spectrometers		. chemical composition
	t equipment		spectrophotometers		carbon dioxide concentration
USE	test equipment		spectroscopy		stellar composition
		0	tests	RT	alkalinity
	compounds		thermogravimetry		atmospheric composition
USE	chelates		titrimeters		atom concentration
			x ray analysis		body composition (biology)
chelates	<b>3</b>		, ,		distribution (property)
UF	chelate compounds	chemic	al attack		gas composition
RT	chelation	GS	chemical attack		ionospheric composition
∞	chemical compounds		. intergranular corrosion		
	organometallic compounds		. transgranular corrosion		ligands
	organomotamo compoundo	DT .	attack		metallic stars
chelatio	n	nı ∘			metallicity
	chelates		corrosion		planetary structure
пі			corrosion prevention		spectral signatures
	chemical reactions		corrosion resistance		
			corrosion tests	∞ chemic	al compounds
	ıl analysis		degradation	SN	(USE OF A MORE SPECIFIC TERM IS
GS	chemical tests		dissolving	OIN	RECOMMENDEDCONSULT THE TERMS
	. chemical analysis		impregnating		LISTED BELOW)
	chromatography		oxidation	DEF	Distinct substances formed by a union
	gas chromatography		passivity	of two o	more ingredients in definite proportions
	gel chromatography		pitting	by weig	nt.
	liquid chromatography			RT	acetyl compounds
	paper chromatography		rusting		actinide series compounds
	thin layer chromatography		scale (corrosion)		adducts
	electrophotometry				alkali metal compounds
			al auxiliary power units		•
	gas analysis	GS	auxiliary power sources	~	alkaline earth compounds
	ozonometry		. chemical auxiliary power units		alkyl compounds
	Van Slyke method	RT	electric batteries		allyl compounds
	iodimetry		fuel cells		aluminum compounds
	Karl Fischer reagent		lead acid batteries		ammines
	microanalysis		magnesium cells		ammonium compounds
	neutron activation analysis		9		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	G5			barium compounds
			. covalent bonds		
	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
	alkalinity		bonding		bromine compounds
	analytical chemistry		coupled modes		cadmium compounds
∞	analyzing		covalence		calcium compounds
	assaying		crystal lattices		carbon compounds
	Auger spectroscopy		ionic crystals		carbonyl compounds
	chemical detection		ligands		cerium compounds
00	chemistry		molecules		cesium compounds
	colorimetry		monatomic molecules		cetyl compounds
	coulometers		octets		chelates
	density measurement			~	chemicals
			polyatomic molecules	~	
	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	chemic	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	nı			cyclic compounds
			dissolving		
	ion selective electrodes	-b	al alauda		deuterium compounds
	isotopic labeling		al clouds		diallyl compounds
	laser spectroscopy	DEF	Artificial clouds of chemical com-		dibasic compounds
	magnetic resonance spectroscopy		released in the ionosphere for observa-		dibutyl compounds
	Mars surface samples	tion of c	lispersion and other characteristics.		difluoro compounds
	mass spectrometers		clouds (meteorology)		diphenyl compounds
	mass spectroscopy		. artificial clouds		dopa
	materials tests		chemical clouds		dysprosium compounds
~					a, ap. ooiaiii ooiiipouliuo

epoxy compounds erbium compounds	praseodymium compounds propyl compounds	americium americium isotopes
•	protactinium compounds	americium 30topes
ethyl compounds	rare earth compounds	
ethylene compounds	∞ rare gas compounds	berkelium
europium compounds	efractory materials	californium
fluorine compounds	rhenium compounds	californium isotopes
fluorine organic compounds	·	curium
fluoro compounds	rhodium compounds	curium isotopes
fullerides	rubidium compounds	curium 242
furans	ruthenium compounds	curium 244
gallium compounds	samarium compounds	einsteinium
	scandium compounds	
germanium compounds	selenium compounds	fermium
∞ Group 1B compounds	silicon compounds	lawrencium
∞ Group 2B compounds	silver compounds	mendelevium
	sodium compounds	neptunium
	strontium compounds	neptunium isotopes
∞ Group 4A compounds		nobelium
∞ Group 4B compounds	strontium oxides	plutonium
∞ Group 5A compounds	styphnates	plutonium isotopes
∞ Group 5B compounds	sulfur compounds	
	sulfur hexafluoride	plutonium 238
∞ Group 6A compounds	tantalum compounds	plutonium 239
∞ Group 6B compounds	technetium compounds	plutonium 240
	tellurium compounds	plutonium 241
	tetrahydrofuran	plutonium 244
hafnium compounds	thiols	sergenium
halocarbons		uranium
halogen compounds	thorium compounds	uranium isotopes
heterocyclic compounds	thulium compounds	uranium 232
	tin compounds	
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	tropyl compounds	. alkali metals
indium aluminum arsenides		cesium
indium compounds	tungsten compounds	cesium isotopes
indium oxides	uranium compounds	cesium 133
	vanadium compounds	cesium 134
inorganic compounds	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		liquid lithium
lead compounds	zirconium compounds	lithium isotopes
lead organic compounds	zwitterions	potassium
lithium compounds	chemical defense	liquid potassium
The second secon		
lutetium compounds	DEF All actions and counteractions de-	potassium isotopes
lutetium compounds magnesium compounds		potassium isotopes
	signed for the protection of personnel and ma-	
magnesium compounds	signed for the protection of personnel and ma- terial against offensive chemical agents.	potassium 38 potassium 39
magnesium compounds manganese compounds mercury compounds	signed for the protection of personnel and ma- terial against offensive chemical agents. RT chemical detection	potassium 38 potassium 39 potassium 40
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magnesium compounds manganese compounds mercury compounds methoxy systems methoxy systems methyl compounds molecules molybdenum compounds monatomic molecules neodymium compounds nickel compounds nickel compounds nitro compounds nitro compounds nitronium compounds nitronium compounds organic aluminum compounds organic boron compounds organic permanium compounds organic jermanium compounds organic semiconductors organic semiconductors organic sulfur compounds organic mompounds organic mompounds organic sulfur compounds organic mompounds organic mompounds organic mompounds organic mompounds organic mompounds organic compounds organic mompounds organic mompounds organic mompounds polyatomic mompounds plutonium compounds polonium compounds polonium compounds polonium compounds	signed 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 tests  chemical effects  RT biological effects     effects     sterilization effects     temperature effects  chemical elements     . actinide series     . actinium     . radium     . radium     . radium isotopes     radium 226	potassium 38 potassium 39 potassium 39 potassium 40 rubidium rubidium isotopes rubidium 86 sodium liquid sodium sodium 122 sodium 22 sodium 24 sodium vapor alkaline earth metals barium isotopes aluminum 26 aluminum 27 barium barium isotopes aluminum 27 barium beryllium beryllium beryllium beryllium 10 bismuth bismuth bismuth bismuth bismuth isotopes cadmium cadmium 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 9
. hahnium	bromine isotopes	beryllium 10
. halogens	cadmium isotopes	carbon 14
astatine	calcium isotopes	cerium 137
bromine	carbon isotopes	cerium 144
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		11
•	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	americium 241
manganese isotopes	tritium	berkelium
. mercury (metal)	iodine isotopes	californium
. mercury isotopes	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	nickel isotopes	uranium 232
tellurium isotopes	niobium isotopes	uranium 233
. molybdenum	niobium 95	uranium 238
. nickel	nitrogen isotopes	xenon 133
nickel isotopes	nitrogen 15	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 17	rhodium isotopes
nitrogen isotopes	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
antimony isotopes argon isotopes	•	

sodium 24	helium	potential energy
strontium isotopes	helium isotopes	
strontium 85	liquid helium	chemical engineering
strontium 87	liquid helium 2	RT aerothermochemistry
strontium 89	krypton	∞ chemistry
	krypton isotopes	combustion chemistry
strontium 90	krypton 85	cracking (chemical engineering)
sulfur isotopes	neon	diffusion
tantalum isotopes		
technetium isotopes	liquid neon	∞ engineering fluid flow
tellurium	neon isotopes	
tellurium isotopes	radon	furnaces
terbium isotopes	radon isotopes	heat transfer
thallium isotopes	xenon	materials handling
thorium isotopes	xenon isotopes	∞ operations
thulium isotopes	xenon 129	thermochemistry
	xenon 133	
tin isotopes	xenon 135	chemical equilibrium
titanium isotopes	. rhenium	UF Chapman-Jouget flame
tungsten isotopes	rhenium isotopes	chemical shift
uranium isotopes	rhodium	GS chemical equilibrium
uranium 232	rhodium isotopes	. acid base equilibrium
uranium 233	. ruthenium	RT association reactions
uranium 234	ruthenium isotopes	buffers (chemistry)
uranium 235	. rutherfordium	dissociation
uranium 238	. selenium	∞ equilibrium
vanadium isotopes	. silver	heat of dissociation
xenon isotopes		phase rule
xenon 129	silver isotopes	reaction kinetics
xenon 133	. strontium	thermodynamic equilibrium
xenon 135	strontium isotopes	memodynamic equilibrium
vtterbium isotopes	strontium 85	chemical evolution
yttrium isotopes	strontium 87	
zinc isotopes	strontium 89	DEF The theory of the creation or produc
	strontium 90	tion of living matter from nonliving matter.
zirconium isotopes	. sulfur	GS evolution (development)
zirconium 95	sulfur isotopes	. chemical evolution
. osmium	. tantalum	RT abiogenesis
osmium isotopes	tantalum isotopes	biological evolution
. oxygen	. technetium	∞ evolution
liquid oxygen	. thallium	exobiology
oxygen isotopes	thallium isotopes	life sciences
oxygen 17	. tin	organic compounds
oxygen 18	tin isotopes	protein synthesis
. palladium	. titanium	protobiology
. phosphorus	titanium isotopes	self assembly
phosphorus isotopes	· · · · · · · · · · · · · · · · · · ·	con accombly
phosphorus 32	. tungsten	chemical explosions
. platinum	. vanadium	GS explosions
	vanadium isotopes	
platinum isotopes	. zinc	. chemical explosions
platinum isotopes . protactinium	· · · · · · · · · · · · · · · · · · ·	. chemical explosions gas explosions
platinum isotopes . protactinium protactinium protactinium isotopes	zinc	. chemical explosions gas explosions propellant explosions
. platinum isotopes . protactinium . protactinium isotopes . rare earth elements	. zinc zinc isotopes	. chemical explosions gas explosions propellant explosions RT aerial explosions
platinum isotopes     protactinium     protactinium isotopes     rare earth elements     cerium	. zinc zinc isotopes . zirconium	. chemical explosions gas explosions propellant explosions RT aerial explosions combustion
platinum isotopes     protactinium     protactinium isotopes     rare earth elements     cerium     cerium isotopes	. zinc zinc isotopes . zirconium zirconium isotopes	. chemical explosions gas explosions propellant explosions RT aerial explosions
platinum isotopes . protactinium protactinium isotopes . rare earth elements cerium cerium isotopes cerium 137	. zinc zinc isotopes . zirconium . zirconium isotopes zirconium 95	. chemical explosions . gas explosions . propellant explosions RT aerial explosions combustion detonable gas mixtures detonation
. platinum isotopes . protactinium . protactinium isotopes . rare earth elements . cerium cerium isotopes cerium 137 cerium 144	. zinc . zinc isotopes . zirconium . zirconium isotopes zirconium 95 . bohrium	. chemical explosions . gas explosions . propellant explosions RT aerial explosions combustion detonable gas mixtures detonation explosives
platinum isotopes . protactinium protactinium isotopes . rare earth elements cerium cerium isotopes cerium 137 cerium 144 dysprosium	. zinc . zinc isotopes . zirconium . zirconium isotopes . zirconium 95 . bohrium . dubnium . hassium	. chemical explosions . gas explosions . propellant explosions RT aerial explosions combustion detonable gas mixtures detonation
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platinum isotopes . protactinium protactinium isotopes . rare earth elements cerium cerium 137 cerium 144 dysprosium dysprosium isotopes	. zinc . zinc isotopes . zirconium . zirconium isotopes zirconium 95 . bohrium . dubnium . hassium . meitnerium . seaborgium . siderophile elements	chemical explosions
platinum isotopes . protactinium protactinium isotopes . rare earth elements cerium cerium isotopes cerium 137 cerium 144 dysprosium dysprosium isotopes erbium	zinc zinc isotopes zirconium zirconium isotopes zirconium 95 bohrium dubnium hassium meitnerium seaborgium siderophile elements	. chemical explosions . gas explosions . propellant explosions RT aerial explosions combustion detonable gas mixtures detonation explosives flammable gases turbulent combustion underground explosions
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platinum isotopes . protactinium protactinium isotopes rare earth elements cerium cerium isotopes cerium 137 cerium 144 dysprosium dysprosium isotopes erbium erbium isotopes erbium erbium isotopes europium europium isotopes	. zinc . zinc isotopes . zirconium . zirconium isotopes zirconium 95 . bohrium . dubnium . hassium . meitnerium . seaborgium . siderophile elements  RT atoms	chemical explosions . gas explosions . propellant explosions aerial explosions combustion detonable gas mixtures detonation explosives flammable gases turbulent combustion underground explosions underwater explosions
platinum isotopes . protactinium protactinium isotopes rare earth elements cerium cerium 137 cerium 144 dysprosium dysprosium erbium isotopes erbium erbium isotopes erbium europium europium isotopes europium isotopes	. zinc . zinc isotopes . zirconium . zirconium isotopes zirconium 95 . bohrium . dubnium . hassium . meitnerium . seaborgium . siderophile elements RT atoms  ∞ chemicals ∞ elements ferrous metals ions	chemical explosions . gas explosions . propellant explosions aerial explosions combustion detonable gas mixtures detonation explosives flammable gases turbulent combustion underground explosions underwater explosions
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platinum isotopes . protactinium protactinium isotopes . rare earth elements cerium cerium 137 cerium 144 dysprosium dysprosium isotopes erbium erbium isotopes europium europium isotopes gadolinium gadolinium isotopes holmium	. zinc . zinc isotopes . zirconium . zirconium isotopes zirconium 95 . bohrium . dubnium . hassium . meitnerium . seaborgium . siderophile elements  RT atoms  ∞ chemicals ∞ elements ferrous metals ions isotopic enrichment light ions	. chemical explosions . gas explosions . propellant explosions RT aerial explosions combustion detonable gas mixtures detonation explosives flammable gases turbulent combustion underground explosions underwater explosions  chemical extinguishers USE fire extinguishers chemical fractionation
platinum isotopes protactinium protactinium protactinium isotopes prare earth elements cerium cerium 137 cerium 144 dysprosium dysprosium dysprosium erbium erbium erbium gadolinium gadolinium dysadolinium long gadolinium long gadolinium long gadolinium long isotopes l	. zinc . zinc isotopes . zirconium . zirconium isotopes zirconium 95 . bohrium . dubnium . hassium . meitnerium . seaborgium . siderophile elements  RT atoms	chemical explosions . gas explosions . propellant explosions aerial explosions combustion detonable gas mixtures detonation explosives flammable gases turbulent combustion underground explosions underwater explosions  chemical extinguishers USE fire extinguishers  chemical fractionation GS fractionation
platinum isotopes protactinium protactinium protactinium isotopes prare earth elements cerium cerium 137 cerium 144 dysprosium dysprosium dysprosium erbium isotopes erbium erbium isotopes gadolinium gadolinium holmium isotopes lanthanum lanthanum lanthanum isotopes	. zinc . zinc isotopes . zirconium . zirconium isotopes zirconium 95 . bohrium . dubnium . hassium . meitnerium . seaborgium . siderophile elements RT atoms  ∞ chemicals ∞ elements ferrous metals ions isotopic enrichment light ions metals nonferrous metals	chemical explosions . gas explosions . propellant explosions RT aerial explosions combustion detonable gas mixtures detonation explosives flammable gases turbulent combustion underground explosions underwater explosions  chemical extinguishers USE fire extinguishers  chemical fractionation GS fractionation . chemical fractionation RT distillation
platinum isotopes protactinium protactinium isotopes rare earth elements cerium cerium 137 cerium 144 dysprosium dysprosium isotopes erbium erbium isotopes erbium gadolinium dadolinium holmium holmium isotopes lanthanum lanthanum latticales	. zinc . zinc isotopes . zirconium . zirconium isotopes zirconium 95 . bohrium . dubnium . hassium . meitnerium . seaborgium . siderophile elements RT atoms  ∞ chemicals ∞ elements ferrous metals ions isotopic enrichment light ions metals nonferrous metals nonferrous metals nuclear isobars	chemical explosions . gas explosions . propellant explosions RT aerial explosions combustion detonable gas mixtures detonation explosives flammable gases turbulent combustion underground explosions underwater explosions  chemical extinguishers USE fire extinguishers  chemical fractionation GS fractionation . chemical fractionation RT distillation refining
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platinum isotopes protactinium protactinium protactinium isotopes	. zinc . zinc isotopes . zirconium . zirconium isotopes zirconium 95 . bohrium . dubnium . hassium . meitnerium . seaborgium . siderophile elements RT atoms  ∞ chemicals ∞ elements ferrous metals ions isotopic enrichment light ions metals nonferrous metals nonferrous metals nuclear isobars	chemical explosions . gas explosions . propellant explosions aerial explosions combustion detonable gas mixtures detonation explosives flammable gases turbulent combustion underground explosions underwater explosions  chemical extinguishers  USE fire extinguishers  chemical fractionation GS fractionation RT distillation refining ∞ separation
platinum isotopes protactinium protactinium protactinium isotopes prare earth elements cerium cerium 137 cerium 144 dysprosium dysprosium dysprosium erbium isotopes erbium erbium isotopes gadolinium gadolinium dadolinium holmium holmium lanthanum lanthanum lutetium lutetium lenedymium lenedymium isotopes	. zinc . zinc isotopes . zirconium . zirconium isotopes zirconium 95 . bohrium . dubnium . hassium . meitnerium . seaborgium . siderophile elements RT atoms ∞ chemicals ∞ elements ferrous metals ions isotopic enrichment light ions metals nonferrous metals nuclear isobars plasmas (physics)	. chemical explosions . gas explosions . propellant explosions RT aerial explosions combustion detonable gas mixtures detonation explosives flammable gases turbulent combustion underground explosions underwater explosions  chemical extinguishers USE fire extinguishers  chemical fractionation GS fractionation RT distillation refining ∞ separation  chemical fuels
platinum isotopes protactinium protactinium protactinium isotopes prare earth elements cerium cerium 137 cerium 144 dysprosium dysprosium dysprosium erbium isotopes erbium erbium isotopes gadolinium gadolinium holmium isotopes lanthanum lanthanum lanthanum lutetium lutetium leodymium neodymium prare prared prar	. zinc . zinc isotopes . zirconium . zirconium isotopes zirconium 95 . bohrium . dubnium . hassium . meitnerium . seaborgium . siderophile elements  RT atoms ∞ chemicals ∞ elements ferrous metals ions isotopic enrichment light ions metals nonferrous metals nuclear isobars plasmas (physics) trace contaminants	. chemical explosions . gas explosions . propellant explosions RT aerial explosions RT aerial explosions combustion detonable gas mixtures detonation explosives flammable gases turbulent combustion underground explosions underwater explosions  chemical extinguishers USE fire extinguishers  chemical fractionation GS fractionation RT distillation refining ∞ separation  chemical fuels DEF Fuels that depend upon an oxidizer fo
platinum isotopes protactinium protactinium protactinium isotopes prare earth elements cerium cerium 137 cerium 144 dysprosium dysprosium dysprosium isotopes erbium erbium isotopes gadolinium gadolinium dysdopes lanthanum lanthanum lattetium lutetium neodymium	. zinc . zinc isotopes . zirconium . zirconium isotopes zirconium 95 . bohrium . dubnium . hassium . meitnerium . seaborgium . siderophile elements RT atoms  ∞ chemicals ∞ elements ferrous metals ions isotopic enrichment light ions metals nonferrous metals nuclear isobars plasmas (physics) trace contaminants  chemical energy	. chemical explosions . gas explosions . propellant explosions RT aerial explosions combustion detonable gas mixtures detonation explosives flammable gases turbulent combustion underground explosions underwater explosions  chemical extinguishers USE fire extinguishers  chemical fractionation GS fractionation RT distillation refining ∞ separation  chemical fuels DEF Fuels that depend upon an oxidizer fo combustion or for development of thrust, such
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platinum isotopes protactinium protactinium protactinium isotopes prare earth elements cerium cerium 137 cerium 144 dysprosium dysprosium erbium erbium erbium isotopes gadolinium gadolinium lanthanum lanthanum lanthanum lutetium lutetium lutetium lutetium lutetium lorges praseodymium promethium proces promethium proces promethium proces promethium proces pr	. zinc . zinc isotopes . zirconium . zirconium isotopes zirconium 95 . bohrium . dubnium . hassium . meitnerium . seaborgium . siderophile elements RT atoms	. chemical explosions . gas explosions . propellant explosions RT aerial explosions combustion detonable gas mixtures detonation explosives flammable gases turbulent combustion underground explosions underwater explosions  chemical extinguishers USE fire extinguishers  chemical fractionation GS fractionation RT distillation refining ∞ separation  chemical fuels DEF Fuels that depend upon an oxidizer fo combustion or for development of thrust, such as liquid or solid rocket fuel or internal combustion engine fuel; distinguished from nuclear fuel
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	shale oil	RT	continuous wave lasers	. nitration
	gasoline			. nitriding
	jet engine fuels	chemic	al 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	<ul> <li>oxidation-reduction reactions</li> </ul>
	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	DT	heat of vaporization	photodecomposition
	jet engine fuels	RT	adsorptivity	photolysis
	JP-4 jet fuel		<ul><li>high resistance</li><li>hydrophobicity</li></ul>	photooxidation
	JP-5 jet fuel		hygroscopicity	photosynthesis
	JP-6 jet fuel	~	o low resistance	radiolysis
	JP-7 jet fuel JP-8 jet fuel	~	moisture content	. pyrohydrolysis
	fuel oils		passivity	. reduction (chemistry)
	kerosene	۰	physical properties	deoxidizing
	metal fuels		propellant properties	hydrogenation . Sabatier reaction
	synthetic fuels	۰	properties	. sulfation
	gasohol (fuel)		• resistance	. sulfidation
	synthane		thermodynamic properties	. thermal decomposition
RT	clean fuels		toxicity	pyrolysis
111	explosives		toxicity and safety hazard	. cycloaddition
	fuel production			. thermal dissociation
	gelled propellants	chemic	al propulsion	. titration
	gelled rocket propellants	UF	chemonuclear propulsion	Diels-Alder reactions
	hybrid propellants	GS	propulsion	. chain reactions (chemistry)
	monopropellants		chemical propulsion	RT biosynthesis
	plastic propellants		hybrid propulsion	chelation
	propellants	RT	jet propulsion	combustion chemistry
	pyrotechnics		marine propulsion	corrosion
	solid propellants		spacecraft propulsion	gas-metal interactions
			underwater propulsion	hydration
chomic	al indicators			interstellar chemistry
RT	biomarkers	chemic	al reaction control	∞ operations
	indicators	RT	agitation	particle interactions
~	methylene blue		o control	plasma jet synthesis
	phloroglucinol	۰	reaction control	polymerization
	prilotogiacino		temperature control	radiochemical separation
ah amia	al kinatiaa			reacting flow
	al kinetics		al reactions	∞ reaction
USE	reaction kinetics	UF	flame interaction	reaction bonding
		GS	chemical reactions	reaction intermediates
	al lasers		. acylation	reaction kinetics
GS	stimulated emission devices		acetylation	reactivity
	lasers		. alkylation	reagents
	chemical lasers		. ammonolysis	sodalite
	HCL lasers		. association reactions . atomic recombination	solvation
	HCL argon lasers			stoichiometry
РΤ	chemical oxygen-iodine lasers		oxygen recombination . carbonization	surface reactions
RT	argon lasers		. carbonization	∞ synthesis
	carbon dioxide lasers 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	chemical reactors  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
chemic	al machining		. epoxidation	reactor design
UF	chemical milling		. exothermic reactions	reactor materials
GS	machining		. fermentation	reactor safety
0.0	. chemical machining		. Friedel-Craft reaction	∞ reactors
	. electrochemical machining		. glycolysis	synthesizers
RT	milling (machining)		. Grignard reactions	tanks (containers)
	J (··· <del>·········)</del>		. halogenation	water cooled reactors
chamic	al milling		bromination	
USE	al milling chemical machining		chlorination	chemical relaxation
USE	Chemical machining		fluorination	USE molecular relaxation
	at a constant at a		. hydroboration	at a second second second
	al oxygen-iodine lasers		. hydrogenolysis	chemical release modules
	ed August 1997)		. hydrocracking	DEF Shuttle launched, free-flying space-
UF			. hydrolysis	craft containing canisters for injecting chemicals
	COIL (lasers)		and the second s	
GS	stimulated emission devices		. ion recombination	into the upper atmosphere and the measure-
GS	stimulated emission devices lasers		. metal-water reactions	ment of the reactions.
GS	stimulated emission devices lasers chemical lasers		. metal-water reactions . metathesis	ment of the reactions. GS modules
GS	stimulated emission devices . lasers chemical lasers chemical oxygen-iodine lasers		. metal-water reactions . metathesis . methanation	ment of the reactions.  GS modules chemical release modules
GS	stimulated emission devices lasers chemical lasers		. metal-water reactions . metathesis	ment of the reactions. GS modules

dispersing	luminescence	tions take place. It is generally considered to
chemical shift USE chemical equilibrium	<b>chemiluminescence</b> RT airglow phosphorescence	include the stratosphere (or the top thereof) and the mesosphere, and sometimes the lower part of the thermosphere.
abandad skudbasking		GS Earth atmosphere
chemical sterilization GS cleaning	chemisorption	. chemosphere
. sterilization	DEF The binding of a liquid or gas on the surface or in the interior of a solid by chemical	RT biosphere  Earth ionosphere
chemical sterilization	bonds or forces.	heterosphere
RT antiseptics	GS sorption	homosphere
bactericides	. adsorption	lower atmosphere
ethylene oxide	chemisorption	mesosphere
purification	RT adatoms	middle atmosphere
sewage treatment spacecraft sterilization	adsorptivity	ozonosphere
opaccorate dicrimization	atomic clusters	plasmasphere stratosphere
chemical tests	gas-metal interactions hydrogen embrittlement	thermosphere
GS chemical tests	masking	troposphere
. chemical analysis	metal clusters	upper atmosphere
chromatography gas chromatography	molecular clusters	
gel chromatography		chemotherapeutic agents
liquid chromatography	∞ chemistry	(added April 2004) USE drugs
paper chromatography	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	OOL ulugs
thin layer chromatography	LISTED BELOW)	chemotherapy
electrophotometry	DEF The science that studies the composition, structure, properties, interactions, and	UF drug therapy
gas analysis	transformations of elemental matter and com-	GS therapy
ozonometry Van Slyke method	pounds.	. chemotherapy
iodimetry	RT aerothermochemistry	RT antiseptics  ∞ chemistry
Karl Fischer reagent	aerothermodynamics	drugs
microanalysis	analytical chemistry	a. age
neutron activation analysis	atmospheric chemistry	Chena River Basin (AK)
potentiometric analysis	biochemistry	GS landforms
qualitative analysis	biogeochemistry chemical analysis	. structural basins
quantitative analysis Kjeldahl method	chemical analysis	river basins Chena River Basin (AK)
Van Slyke method	chemotherapy	RT Alaska
spectroscopic analysis	combustion chemistry	TTT / Hadria
urinalysis	computational chemistry	Chesapeake Bay (US)
volumetric analysis	cosmochemistry	GS bays (topographic features)
. salt spray tests	cryochemistry	. Chesapeake Bay (US)
RT chemical detection	electrochemistry environmental chemistry	RT estuaries Maryland
corrosion resistance 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
quality control	nuclear chemistry	GS anatomy
sampling	organic chemistry	. <b>chest</b> breast
staining	photoelectrochemistry physical chemistry	mammary glands
∞ tests	∞ physical criemstry ∞ physical sciences	RT thorax
chemical vapor deposition	Physics and Chemistry Experiment in	torso
USE vapor deposition	Space	
	physiochemistry	chewing
chemical vapor infiltration	plasma chemistry	USE mastication
(added December 1992)	polymer chemistry	chiasms
UF CVI (fabrication) GS infiltration	precipitation (chemistry) propellant chemistry	GS crossings
. chemical vapor infiltration	quantum chemistry	. chiasms
RT carbon fibers	radiation chemistry	
ceramic fibers	radiochemistry	chickens
ceramic matrix composites	reduction (chemistry)	GS animals . vertebrates
composite materials	saturation (chemistry)	birds
densification	stereochemistry stoichiometry	chickens
fiber composites	synthesis (chemistry)	
chemical warfare	thermochemistry	child device
GS warfare	unsaturation (chemistry)	RT learning
. chemical warfare	Wiswesser notations	learning theory
RT biochemistry		training devices
biological weapons	chemonuclear propulsion	Child-Langmuir law
physiological factors	USE chemical propulsion	GS laws
chamically reacting flow	nuclear propulsion	. Child-Langmuir law
chemically reacting flow USE reacting flow	ahamaraaantar-	RT perveance
OCE TOUGHING HOW	chemoreceptors GS anatomy	space charge
∞ chemicals	. sense organs	thermionic diodes
SN (USE OF A MORE SPECIFIC TERM IS	chemoreceptors	children
RECOMMENDEDCONSULT THE TERMS	receptors (physiology)	RT adults
LISTED BELOW) RT ∞ chemical compounds	. chemoreceptors	females
chemical elements	RT carotid sinus body	human beings
	olfactory perception	males
chemiluminescence	taste	parents
DEF Any luminescence produced by chemi-		progeny
cal action. GS emission	chemosphere	Chilo
GS emission . light emission	DEF The vaguely defined region of the up- per atmosphere in which photochemical reac-	Chile GS nations
. light chilosion	por aumosphere in which photochemical lead-	ao nationa

DT	. Unite		ragmentation		intestation
RT	European Southern Observatory South America		pitting	ohirn	
	South America	C	separation	chirp	An all ancompassing term for the vari
chilling			spalling		An all encompassing term for the vari chniques of pulse expansion-pulse com
	cooling		splitting		
OOL	cooming		wear		n applied to pulse radar; a technique to
chimes					narrow pulses to wide pulses for trans
USE	auditory signals	chips			, and compress wide received pulses to
OOL	additory signals	RT	chips (electronics)		inal narrow pulse width and wave shape
chimne	eve		fragments		improvement in signal-to-noise ratio
RT	buildings		scrap		degradation to range resolution and
111	exhaust systems				discrimination.
	flues		.11	GS	electromagnetic interference
	furnaces		electronics)		. radio frequency interference
			Integrated microcircuits mounted on		chirp
	plumes		tes and performing significant numbers		chirp signals
	stacks	of funct			
	vents	GS	chips (electronics)	chirp s	ignals
	waste energy utilization		. chips (memory devices)	GS	electromagnetic interference
			. systems-on-a-chip		. radio frequency interference
chimpa		RT	application specific integrated circuits		chirp
GS	animals		central processing units		chirp signals
	. vertebrates		chips	RT	electromagnetic noise
	mammals		computer design		∞ signals
	primates		integrated circuits		g
	apes		large scale integration	chitin	
	chimpanzees		microelectronics	SN	(A POLYSACCHARIDE WHICH IS THE
RT	human beings		microprocessors	0.1	PRINCIPAL CONSTITUENT OF THE
			reconfigurable hardware		SHELLS OF CRABS AND LOBSTERS, THE SHARDS OF BEETLES, AND IS ALSO
chin			RISC processors		SHARDS OF BEETLES, AND IS ALSO FOUND IN CERTAIN FUNGI)
GS	anatomy		systolic arrays	DEF	A polysaccharide which is the principa
	. face (anatomy)		very large scale integration		uent of the shells of crabs and lobsters
	chin				the shards of beetles. It is also found in
RT			VHSIC (circuits)	certain	
	head (anatomy)				•
	noda (anatomy)	chips (	memory devices)	GS	biopolymers
China		DEF `	Integrated microcircuit devices used		. polysaccharides
UF	China (communist) mainland	collectiv	vely to perform the functions of data		chitin
-	Chinese Peoples Republic	storage	: accepting, retaining, and emitting bits		organic compounds
GS	nations	of data.			. carbohydrates
ao	. China	GS	chips (electronics)		polysaccharides
RT	Asia	0.0	. chips (memory devices)		chitin
n i	Chinese aircraft		computer components	RT	gums (substances)
			. chips (memory devices)		starches
	Chinese space program	RT a	<ul><li>devices</li></ul>		
	Chinese spacecraft	111 %	integrated circuits	chloral	
	Hong Kong			GS	aldehydes
	Taiwan		memory (computers)		. chloral
<b></b>			metal-nitride-oxide-semiconductors		
	communist) mainland		semiconductor devices	chlorat	es
USE	China				
Ohimaa	!	chiral c	lynamics		. chlorine compounds
	e aircraft		chirality		chlorates
HI º	∞ aircraft	c	∘ dynamics	BT (	∞ oxygen compounds
	China		group theory	• • • • • • • • • • • • • • • • • • • •	perchlorates
	5 4 5 4"		Lagrange multipliers		peromorates
	e Peoples Republic		matrices (mathematics)	Chlore	lle
USE	China		matrices (matricinaties)		
					A genus of unicellular green algae to
	e space program	chiralit	•		pted to converting carbon dioxide into
GS	programs		ed August 1994)		in a closed ecological system.
	. space programs	GS	symmetry	GS	plants (botany)
	Chinese space program		. chirality		. algae
RT	China	RT	antisymmetry		Chlorella
	Long March launch vehicles		chiral dynamics	RT	aerospace medicine
0	research projects		enantiomers		carbon dioxide
	Shenzhou 5 spacecraft		group theory		culture techniques
	space missions		handedness		life support systems
	Taiwan				oxygen
		01:			photosynthesis
Chines	e spacecraft	Chiron			
DEF	•	DEF	Minor planet 2060, a solar system as-	chlorid	les
	Peoples Republic.		iscovered by Charles T. Kowal of Hale	UF	pentachlorides
GS	Chinese spacecraft		atories. Used for Minor Planet 2060.		trichlorides
ao	•	UF	Minor Planet 2060	GS	halogen compounds
RT	. Shenzhou 5 spacecraft China	GS	celestial bodies	40	. chlorine compounds
n i			. asteroids		chlorides
	Long March launch vehicles		Chiron		aluminum chlorides
0	∞ spacecraft	RT	Apollo asteroids		ammonium chlorides
	Taiwan		asteroid belts		beryllium chlorides
abir			meteoroids		boron chlorides
chinone			planets		
USE	quinones		solar system		cadmium chlorides
01.			space debris		calcium chlorides
	k helicopter				carbon tetrachloride
USE	CH-47 helicopter				copper chlorides
			omus flies		dichlorides
chippin		GS	animals		germanium chlorides
RT	abrasion		. invertebrates		hydrochlorides
	comminution		arthropods		hydrogen chlorides
	cutting		insects		hydrochloric acid
	flaking		chironomus flies		iron chlorides
	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.
	phosgene	silver chlorides	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	UF 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
	. halides	chlorosilanes	chlorofluorocarbons
	chlorides	DDT	RT air pollution
	aluminum chlorides	meclizine	chlorocarbons
	ammonium chlorides	perchlorates	chlorofluoromethane
	beryllium chlorides	aluminum perchlorates	contaminants
	boron chlorides	ammonium perchlorates	fluorocarbons
	cadmium chlorides	hydrazine perchlorates	greenhouse effect
	calcium chlorides	hydrogen perchlorate	ozone depletion
	carbon tetrachloride	hydroxylammonium perchlorates	ozonosphere
	copper chlorides dichlorides	lithium perchlorates magnesium perchlorates	
	germanium chlorides		chlorofluoromethane
	9	nitronium perchlorate potassium perchlorates	GS halogen compounds
	hydrochlorides hydrogen chlorides	trichloroethylene	. fluorine compounds
	hydrogen chlorides	RT ∞ chemical compounds	fluoro compounds
	iron chlorides	halocarbons	fluorine organic compounds
	lanthanum chlorides	Halocarbons	fluorohydrocarbons
	lead chlorides		chlorofluoromethane
	lithium chlorides	chlorine fluorides	organic compounds
	magnesium chlorides	GS halogen compounds	. fluorine organic compounds
	nitrosyl chlorides	. chlorine compounds	fluorohydrocarbons
	nitroxychlorides	chlorine fluorides	chlorofluoromethane
	nitryl chlorides	. fluorine compounds	. hydrocarbons
	phosgene	fluorides	fluorohydrocarbons
	potassium chlorides	chlorine fluorides	chlorofluoromethane
	silicon tetrachloride	. halides	RT air pollution
	silver chlorides	fluorides	chlorofluorocarbons
	sodium chlorides	chlorine fluorides	contaminants
	sulfur chlorides	RT liquid rocket propellants	methane
	tetrachlorides		ozone depletion
	titanium chlorides	chlorine oxides	
	tungsten chlorides	GS chalcogenides	chloroform
	zinc chlorides	. oxides	GS drugs
RT	methyl chloride	chlorine oxides	. anesthetics
	polyvinyl chloride	halogen compounds	chloroform
	salt beds	. chlorine compounds	RT anesthesiology
		chlorine oxides	
chlorin	ation		chloroformate
GS	chemical reactions	chloroaromatics	GS esters
	. halogenation	GS chloroaromatics	. chloroformate
	chlorination	. chlorobenzenes	formates
RT	bleaching	RT ∞ aromatic compounds	. chloroformate
	hydrometallurgy	TTT ∞ aromatic compounds	
	pyrometallurgy		chlorophylls
	water treatment	chlorobenzenes	GS magnesium compounds
		GS chloroaromatics	. chlorophylls
chlorin		. chlorobenzenes	organometallic compounds
GS	chemical elements	organic compounds	. chlorophylls
	. halogens	. cyclic compounds	pigments
	chlorine	cyclic hydrocarbons	. chlorophylls
oblorin	o compoundo	chlorobenzenes	porphyrins
	e compounds	. hydrocarbons	. chlorophylls
GS	halogen compounds	cyclic hydrocarbons	RT algae
	. chlorine compounds chlorates	chlorobenzenes	brown wave effect
	chlorides	RT benzene	cells (biology)
	aluminum chlorides		chloroplasts
	ammonium chlorides	chlorocarbons	Coastal Zone Color Scanner
	beryllium chlorides	DEF All compounds containing chlorine and	dissolved organic matter
	boron chlorides	carbon with or without other elements.	green wave effect
	cadmium chlorides	GS carbon compounds	ocean color scanner
	calcium chlorides	. halocarbons	photosynthesis
	carbon tetrachloride	chlorocarbons	plants (botany)
	copper chlorides	halogen compounds	porphines
	dichlorides	. chlorine compounds	Sea-viewing Wide Field-of-view
	germanium chlorides	chlorocarbons	Sensor
	hydrochlorides	. halocarbons	skin (anatomy)
	hydrogen chlorides	chlorocarbons	
	hydrochloric acid	RT chlorofluorocarbons	chloroplasts
	iron chlorides		GS organelles
	lanthanum chlorides	chloroethylene	. chloroplasts
	lead chlorides	GS organic compounds	RT cells (biology)
	lithium chlorides	. ethylene compounds	chlorophylls
	magnesium chlorides	chloroethylene	cytoplasm
	J	and the second s	<b>→</b> • • • • • • • • • • • • • • • • • • •

photosynthesis real variables tangents chloroprene resins cholesterol choroid membranes neoprenes GS organic compounds GS anatomy GS elastomers . lipids . sense organs . . 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 USE 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 cyclic AMP RT ∞ oxygen compounds . chlorpromazine chromatin cholinesterase Choctaw helicopter (added August 2004) biopolymers 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 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 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 mixing adsorption Murchison meteorite 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 acids GS 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)
USE electric choppers cholera 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 . . chromium pathological effects specifically, those parts of lines between two points of intersections. Used for aerodynamic . . chromium isotopes physiological effects chords. . transition metals chromium Cholesky factorization aerodynamic chords A numerical algorithm used to solve GS geometry . chromium isotopes linear systems of equations. Euclidean geometry refractory materials factorization . . lines (geometry) . refractory metals GS Cholesky factorization chromium chords (geometry) . chromium isotopes curves (geometry) conjugates

geodesic lines

tangential blowing

chromites

heavy metals

finite element method

iterative solution

	strategic materials	refractory metals		. reaction time
chromi	um alloys	chromium	DT	chronaxy
GS	alloys	chromium isotopes	RT	responses sensory stimulation
0.0	. chromium alloys	chromium oxides		thresholds (perception)
	Astroloy (trademark)	GS chalcogenides		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	chromium steels	. oxides	chronic	conditions
	Rene 41	metal oxides	GS	conditions
	Rene 63 Rene 77	chromium oxides chromium compounds		chronic conditions
	Rene 95	. chromium oxides	RT	blood volume diseases
RT	heat resistant alloys	RT chromites		disorders
	Inconel (trademark)			health
	stainless steels	chromium steels		
	Stellite (trademark) Waspaloy	DEF Steels containing chromium as the main alloying element.	chronol	biology
	waspaioy	GS alloys	USE	rhythm (biology)
chromi	um borides	. chromium alloys		
GS	boron compounds	chromium steels	chronog	grapns chronometers
	. borides	. iron alloys	USE	Chronometers
	chromium borides chromium compounds	steels <b>chromium steels</b>	chrono	logy
	. chromium borides	RT ferritic stainless steels		age determination
				dating
	um bromides	chromophores	GS	chronology
GS	chromium compounds	(added July 1994)	DT	. geochronology
	. chromium bromides halogen compounds	RT color dyes	RT	time
	. bromine compounds	electrochromism	chrono	meters
	bromides	nonlinear optics	UF	chronographs
	chromium bromides	optical activity	GS	measuring instruments
	. halides	optical materials		. time measuring instruments
	bromides	∞ optics		clocks
	chromium bromides metal halides	pigments	DT	chronometers
	chromium bromides	chromosome aberrations	RT	atomic clocks clock paradox
		(added August 2004)		time measurement
	um carbides	DEF Abnormal number or structure of chro-		timing devices
GS	carbon compounds	mosomes.		
	. carbides chromium carbides	RT chromosomes congenital anomalies		photography
	chromium compounds	genes	UF	time lapse photography
	. chromium carbides	mitosis	GS	imagery . photography
		mutations		chronophotography
	um compounds	telomeres	RT	black and white photography
GS	chromium compounds . chromates	chromosomes		motion pictures
	potassium chromates	DEF The self replicating genetic structure of		
	. chromic acid	cells containing the celllular DNA that bears in	chronot	
	. chromium borides	it's nucleotidesequence the linear array of	USE	pulse rate
	. chromium bromides	genes.		time lag
	. chromium carbides . chromium fluorides	RT cells (biology) chromatin	chuggir	na
	. chromium oxides	chromosome aberrations		combustion stability
	. sodium chromites	congenital anomalies		
	ochemical compounds	cytology	Chukch	
	Group 6B compounds	gene expression		Part of the Arctic Ocean north of the
٥	metal compounds	gene therapy genes	Bering : GS	Strait between Asia and North America. seas
chromi	um fluorides	genes genetic code	do	. Chukchi Sea
GS	chromium compounds	genetics	RT	Arctic regions
	. chromium fluorides	mitosis		· ·
	halogen compounds	mutations	chutes	
	. fluorine compounds fluorides	∞ nuclei reproductive systems	UF	slides
	metal fluorides	telomeres	RT	conveyors materials handling
	chromium fluorides	tetrad theory		materials nariding
	. halides		CID	
	fluorides	chromosphere	USE	charge injection devices
	metal fluorides chromium fluorides	DEF A thin layer of relatively transparent gases above the photosphere of the sun.		•
	metal halides	GS environments	cinder o	cones
	metal fluorides	. extraterrestrial environments	USE	cones (volcanoes)
	chromium fluorides	stellar atmospheres		
		chromosphere		prography
GS	um isotopes	RT coronal loops	USE	motion pictures radiography
us	chemical elements . chromium	faculae photosphere		radiography
	chromium isotopes	solar atmosphere	cinema	tography
	. nuclides	solar corona	GS	imagery
	isotopes	solar prominences		photography
	chromium isotopes	solar transition region	DT	cinematography
	metals . refractory metals	spicules stellar structure	RT	animation black and white photography
	chromium	stellar winds		cameras
	chromium isotopes	Transition Region and Coronal		color photography
	. transition metals	Explorer		infrared photography
	chromium	chronovy		motion pictures
	chromium isotopes refractory materials	<b>chronaxy</b> GS time		stereophotography streak cameras
	actory materials	GO LIIIO		Sa sun sumerus

### cinespectrographs

video tapes

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 DEF Networks providing one or more closed paths. Used for electric circuits, explodoptical measuring instruments circuit protection . . transits differentiators ing conductor circuits, shunts, and subcircuits. ... theodolites digital electronics electric circuits duality principle ... cinetheodolites exploding conductor circuits photographic tracking duplexers electric connectors 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
. cancellation circuits diurnal rhythms electric wire GS rhythm (biology) electrical grounding . circadian rhythms electromechanics clamping circuits RT activity cycles (biology) 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 ∞ sectors echo suppressors selectors . electric bridges segments short circuits . . wire bridge circuits spheres signal generators . . . Wheatstone bridges solid state devices equivalent circuits circuit boards solions feedback circuits electronic packaging RT ∞ strip printed circuits fire control 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 switches . circular cones switching circuits half cones . . encapsulated microcircuits nose cones field-programmable gate arrays circuit diagrams . . large scale integration schematics circular cylinders GS diagrams . . linear integrated circuits RT ∞ cylinders circuit diagrams medium scale integration cylindrical bodies RT engineering drawings TTL integrated circuits cvlindrical shells layouts very large scale integration elliptical cylinders photomasks VHSIC (circuits) iterative networks circular orbits circuit protection LC circuits GS orbits protection limiter circuits . circular orbits circuit protection . clipper circuits . stationary orbits capacitors RT linear circuits 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 electrical faults orbital mechanics . . flip-flops planetary orbits polar orbits electrical grounding . . monostable multivibrators electrical insulation . 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 power supply circuits circular plates suppressors . printed circuits GS structural members surges

transformers

transmission circuits

RC circuits

. RL circuits

. plates (structural members)

. circular plates annular plates

disks (shapes) end plates flat plates

#### circular polarization

polarization (waves) GS

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 RT 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

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

. spacecraft trajectories

. . lunar trajectories

. . circumlunar trajectories

Earth orbits

Earth-Moon trajectories

lunar flight lunar orbits

moon-Earth trajectories reentry trajectories

rendezvous trajectories transfer orbits

## circumpolar westerlies

wind (meteorology)

. circumpolar westerlies

atmospheric circulation

jet streams (meteorology)

winds aloft

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

. solar radiation

. circumsolar radiation

atmospheric scattering light scattering ∞ radiation

scattering sunlight

## circumsolar telescopes

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

GS

telescopes
. circumsolar telescopes

RT lenses

measuring instruments mirrors

optical equipment radiation pyrometers

circumstellar matter USE stellar envelopes

solar radiation

cirques (landforms) GS

landforms structural basins

. . cirques (landforms) glaciers ice

mountains

# snow

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

patches of cotton without shadows. GS clouds (meteorology)

cirrocumulus clouds atmospheric moisture cirrostratus clouds

climatology cloud cover fog

meteorology nephanalysis

precipitation (meteorology)

thunderstorms weather

### cirrostratus clouds

DEF Cirriform clouds appearing as a whitish veil. Usually fibrous, sometimes smooth, they often produce halo phenomena. This form may totally cover the sky.

GS clouds (meteorology)

. cirrostratus clouds

RT	atmospheric moisture		citric acid		CL-84 aircraft
	cirrocumulus clouds	RT	citrates		tilt wing aircraft
	climatology				. CL-84 aircraft
	cloud cover	citrus			transport aircraft
	fog	GS	plants (botany)		. CL-84 aircraft
	meteorology		. trees (plants)		V/STOL aircraft
	nephanalysis	RT	citrus trees agriculture	DT.	. <b>CL-84 aircraft</b> ∘ aircraft
	precipitation (meteorology) thunderstorms	nı	blight	nı •	o aircrait
	weather		botany	CI -595	helicopter
	Weather		crop growth		XH-51 helicopter
cirrus d	clouds		crop vigor		
DEF	Cirriform clouds in the form of thin,		∞ crops	CL-600	challenger aircraft
	eatherlike shapes in patches or narrow		curing		Canadair turbofan aircraft with super-
	They have a fibrous and/or silky sheen.		∞ food	critical v	
	ce crystals often trail downward a consid-		irrigation	GS	Canadair aircraft
	vertical distance in fibrous, slanted, or		orchards		. CL-600 challenger aircraft
	rly curved wisps called mares' tails. clouds (meteorology)		seeds		general aviation aircraft  . CL-600 challenger aircraft
do	. cirrus clouds	civil a	viation		jet aircraft
	. Ulifus diduus	UF			. turbofan aircraft
cirrus s	shields	RT	A-380 aircraft		. CL-600 challenger aircraft
GS	clouds (meteorology)		∞ aeronautics	RT •	∘ aircraft
	cirrus shields		air law	۰	o military aircraft
RT	climatology		airline operations		supercritical wings
	meteorology		aviation meteorology		
	weather forecasting		commercial aircraft		aircraft
CIC			general aviation aircraft		Lockheed CL-823 aircraft
<i>CIS</i> USE	Commonwealth of Independent		passenger aircraft	GS	jet aircraft . CL-823 aircraft
USE	States	civil d	ofense		Lockheed aircraft
	States	RT			. CL-823 aircraft
cisluna	r space		antimissile defense		supersonic aircraft
	Of or pertaining to phenomena,		chemical defense		. supersonic transports
	s, or activity in the space between the		∞ defense		. CL-823 aircraft
	nd the moon, or between the Earth and		defense program		transport aircraft
	on's orbit.		evacuating (transportation)		. CL-823 aircraft
GS	environments		nuclear explosions	RT ∘	∘ aircraft
	. aerospace environments		nuclear warfare	ماماطانه	_
	cislunar space . extraterrestrial environments		protection	claddin	g A coating placed on the surface of a
	cislunar space		Sentinel system shelters		and usually bonded to the material.
RT	deep space		survival		metal working
	Earth-Moon trajectories		warning	0.0	. cladding
	interplanetary space		warning systems	RT	anodic stripping
	lunar flight		3 - 7 - 1		cathodic coatings
	lunar orbits	CL-41	aircraft		cold working
0	∞ space	UF	Canadair CL-41 aircraft		composite materials
			CT-114 aircraft		explosive welding
cities			Tutor aircraft		extruding
UF	metropolitan areas	GS	attack aircraft		laminates
GS	urban areas cities		. CL-41 aircraft		metal coatings
do	. Atlanta (GA)		Canadair aircraft . CL-41 aircraft		metallizing
	. Cedar Rapids (IA)		General Dynamics aircraft		plating protective coatings
	. Houston (TX)		. CL-41 aircraft		proteotive coatings
	. Manitou (CO)		jet aircraft	claimin	g
	. Moscow `		. CL-41 aircraft	RT ∘	
	. New Haven (CT)		monoplanes		patents
	. New York City (NY)		. CL-41 aircraft		preempting
	. Phoenix (AZ)	RT	∞ aircraft		
	. Pontiac (MI)				d structures
	. San Francisco (CA)		aircraft	(addi RT	ed February 1998) beams (supports)
RT	. Vatican City anthropology	UF	Canadair CL-44 aircraft CC-106 aircraft	וח	clamps
п	communities		Yukon aircraft		composite structures
	heat islands	GS			joints (junctions)
	industrial areas	0.0	. CL-44 aircraft		laminates
	inhabitants		General Dynamics aircraft		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	•	o structures
	suburban areas		monoplanes	alamania	an alvanita
	urban development		. CL-44 aircraft transport aircraft		ng circuits Circuits which maintain either extrem-
	urban planning urban research		. cargo aircraft		waveform at a prescribed potential.
	a.2411 100041011		CL-44 aircraft		s for adjusting the absolute voltage level
citrates	<b>S</b>	RT	∞ aircraft	of wave	
RT	citric acid	• • • •		GS	circuits
	esters	CL-84	aircraft		. clamping circuits
		UF	Canadair CL-84 aircraft	RT	limiter circuits
citric a		GS	antisubmarine warfare aircraft		power limiters
GS	acids		CL-84 aircraft		
	. carboxylic acids		Canadair aircraft	clamps	
	citric acid		. CL-84 aircraft	HT •	bands
	organic compounds . carbohydrates		General Dynamics aircraft . CL-84 aircraft		clamped structures clips
	citric acid		jet aircraft		fasteners
	. carboxylic acids		. turboprop aircraft		holders
	,				

## Clebsch-Gordan coefficients

	jigs		evaluation		. chemical cleaning
	mechanical devices		image classification		pickling (metallurgy)
	sealing		security		. housekeeping (spacecraft)
	straps		selection		. sterilization
			size separation		chemical sterilization
clarity	-t		sorting algorithms		spacecraft sterilization
RT	atmospheric optics		taxonomy		. ultrasonic cleaning
	electromagnetic properties	alathra	too		. washing
	haze opacity	clathra			bathing
	optical properties	יוח	∞ chemical compounds crystal structure	RT	. environmental cleanup
	purity		crystals	ΠI	abrasion antifouling
c	∞ sharpness		inclusions		antiseptics
	solubility		11010310113		bleaching
	transparence	clays			cleaners
	turbidity	GS	clays		cleanliness
		-	. illite		clearing
Clark Y	' airfoil		. kaolinite		corrosion prevention
USE	airfoil profiles		. montmorillonite		decontamination
			. vermiculite		descaling
classes		RT	alluvium		dissolving
	categories		boreholes		dust
	∞ groups		bricks		flushing
c	∞ sections		ceramics		metal finishing
01:-			colloids		metal polishing
Classic			fans (landforms)		paint removal
USE	IL-62 aircraft		grout		polishing
oloccio	al mechanics		masonry		purification
GS	mechanics (physics)		mining	۰	∞ reduction
33	. classical mechanics		molding materials		refining
	space mechanics		mud		scarfing
	astrodynamics		refractory materials		scavenging
	celestial mechanics		rocks		scrubbers
	orbital mechanics		sedimentary rocks	۰	∞ separation
	Kepler laws		sediments		surface finishing
	minimum variance orbit		shales		trichloroethylene
	determination		sizing materials		waste water
RT	angular momentum		soils		
	continuum mechanics		strip mining	cleanlir	
	equations of motion	alaan a		GS	cleanliness
	Euler-Lagrange equation	clean e		БТ	. housekeeping (spacecraft)
	Hamiltonian functions	RT	air pollution	RT	
	Lagrange coordinates		environment pollution		cleaners
	Maxwell bodies		environmental engineering		cleaning
	momentum		geothermal energy conversion		hygiene
	phase-space integral		renewable energy		oral hygiene
	Poisson equation		tidepower		to to other days a
	quaternions		water pollution		ir turbulence turbulence
	statistical mechanics		waterwave energy windpower utilization	GS	
			willapower utilization		. atmospheric turbulence clear air turbulence
classifi	cations	clean f	uels	RT	
GS	classifications	DEF	Energy sources from which pollutants	111	gusts
	. hierarchies		her impurities have been removed by		jet streams (meteorology)
	BBGKY hierarchy		, purification, and other means, to pro-		thermal instability
	dichotomies		iels less conducive to pollution.		turbulent diffusion
	. indexes (documentation)	GS	fuels		wind shear
	KWIC indexes		. clean fuels		mile office.
	Wiswesser notations	RT	beneficiation	clearan	ices
	. subjects		chemical fuels	RT	adjusting
RT	astronomical catalogs		hydrocarbon fuels		alignment
	∞ breakdown		pollution		allowances
c	∞ classifying		refining		datum (elevation)
	cluster analysis congeners		synthetic fuels		spacing
	image classification				tightness
	taxonomy	clean r			tolerances (mechanics)
	taxonomy		Areas in which the temperature, hu-		
classifi	ers		and the airborne particulate contamina-	clearing	
GS	separators		e controlled as required.	RT	3
0.0	. classifiers	GS	rooms		purging
	sizing screens	DT	. clean rooms		removal
	thickeners (equipment)	RT	assembling		(:)
RT	centrifuges		cleanliness		gs (openings)
	concentrating		controlled atmospheres environmental control	UF	
	concentrators		environmental control	GS	clearings (openings)
	flotation	cleane	re		. firebreaks . polynyas
c	∞ separation	GS	cleaners	RT	deforestation
	shakers	ao	. air filters	n i	forests
	size determination	RT.	∞ absorbers		trees (plants)
	size separation	111	absorbers (equipment)		(piants)
	spirals (concentrators)		absorbers (materials)	cleavag	ne .
	·		cleaning	UF	scission
classif	, ,		cleanliness	RT	brittle materials
SN	(USE OF A MORE SPECIFIC TERM IS		separators		brittleness
	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		ultrasonic cleaning		
UF	sorting		washers (cleaners)	Clebsol	h-Gordan coefficients
RT	classifications		(	GS	coefficients
	concentrators	cleanin	na	<u></u>	. Clebsch-Gordan coefficients
	Concentrators				
	discriminant analysis (statistics)	GS	cleaning	RT	angular momentum

coupling vertical flight ocean models

#### Clementine spacecraft

(added May 1997)

A spacecraft launched in January 1994 as part of a joint NASA/DoD-BMDO (Ballistic as part of a joint NASA/DoD-BMDO (Ballistic Missile Defense Organization) mission to space-qualify several lightweight electronic instru-ments and systems (including an ultraviolet/ visible CCD camera, a near infrared and long-wavelength infrared camera, and a combined high-resolution CCD camera and laser ranging system). The Clementine mission also provided the first complete systematic surface mapping of the moon from the ultraviolet to near infrared spectral regions. A software malfunction in May of 1994 precluded a planned flyby of the asteroid Geographos.

asteroid missions CCD cameras flyby missions lunar exploration lunar maps lunar spacecraft lunar surface ∞ spacecraft

#### client server systems

(added May 1996)

GS networks

. computer networks

client server systems

architecture (computers) computer systems design

distributed processing

internets

Java (programming language)

on-line systems

#### cliffs

bluffs (landforms)

RT canyons escarpments fiords

landslides ledges ∞ shelves slopes topography

#### climate

UF macroclimate RT climate change climatology long term effects meteorology paleoclimatology Southern Oscillation

weather

## climate change

air pollution

atmospheric composition atmospheric temperature biomass burning

carbon dioxide concentration

CERES (experiment)

climate climate models climatology global warming Glory Mission satellite GRACE mission greenhouse effect

man environment interactions

Mission to Planet Earth paleoclimatology stratospheric warming

#### climate models

(added March 1995)

models GS

RT

climate models

atmospheric models climate change environment models hydrology models

#### climatology

Branch of meteorology that studies the DFF average weather conditions and statistical variations for a specified region over an extended period of time.

Milankovitch theory

## climatology

agroclimatology

. hydroclimatology

. microclimatology

. paleoclimatology

Antarctic regions

anvil clouds

Arctic regions

atmospheric circulation

Atmospheric General Circulation

Models cap clouds cirrocumulus clouds cirrostratus clouds cirrus shields climate

climate change cloud cover cloud dispersal clouds (meteorology) dendrochronology

desertline deserts

environmental chemistry environmental engineering FIRE (climatology)

fog dispersal geography

Glory Mission satellite

hailstorms heat islands humidity hurricanes hydrology

intraseasonal variations ISCCP Project lightning suppression Madden-Julian Oscillation

meteorology middle atmosphere periodic variations . phenology polar meteorology

polar regions precipitation (meteorology) primitive equations quasi-biennial oscillation

rainmaking sea breeze seasons snowstorms solar radiation storm enhancement storm suppression

storms storms (meteorology)

sunlight

teleconnections (meteorology)

temperate regions temperature tropical regions weather wind (meteorology) zonal flow (meteorology)

climbing flight

GS ascent

. climbing flight

ascent trajectories coasting flight ∞ flight

flight paths horizontal flight parabolic flight rocket flight soaring takeoff turning flight

clinical markers

(added August 2004)

USE biomarkers

#### clinical medicine

medical science GS

. clinical medicine

RT anesthesiology bed rest blood volume case histories diagnosis examination healing health

human beings ∞ medicine ∞ operations sports medicine

surgery transplantation

∞ treatment

clinorotation (added July 2000)

DEF Rotational motion of a test subject about one or more axes that are inclined with respect to the gravitational vector; often applied

to simulate a microgravity environment.

UF clinostat rotation
 clinostating gyration GS . rotation . clinorotation

centrifuging clinostats gravitational effects

gravitational physiology microgravity

rotating environments

space environment simulation

weightlessness

weightlessness simulation

clinostat rotation (added July 2000) USE clinorotation

clinostating (added August 2000) USE clinorotation

## clinostats

(added July 2000)

DEF Devices for producing vector-averaged gravitational environments which mimic micro-

random positioning machines

GS simulators

. environment simulators

. . space simulators

clinostats

bioreactors centrifuges clinorotation

gravitational effects gravitational physiology

microgravity

rotating environments space environment simulation

tissue engineering

weightlessness simulation

clipper circuits

GS circuits

. limiter circuits

. clipper circuits RT comparator circuits power limiters

clips

anchors (fasteners) RT

∞ bands clamps couplings holders

	mechanical devices		wireless communication		plugging
	_	closed	cycles		plugs seals (stoppers)
clock p		SN	(EXCLUDES CLOSED LOOP CONTROL		tightness
GS	time measurement	DT	SYSTEMS)		valves
RT	. clock paradox atomic clocks	RT	control theory		
n i	chronometers		cooling systems	cloth	
	time signals		electric generators gas turbines		fabrics
	timing devices		loops	OOL	Tabilos
	3		nuclear reactors	-1 -4h:	
clocks			plasma generators	clothing GS	clothing
UF	watches		thermal cycling tests	ao	. boots (footwear)
GS	measuring instruments		thermodynamic cycles		. cotton fibers
	. time measuring instruments	alacad .	and ariant avatama		. coveralls
	clocks		ecological systems Systems that provide for the mainte-		. flight clothing
	atomic clocks autonomous spacecraft clocks		of life in an isolated living chamber		. garments
	chronometers		complete reutilization of the material		. gloves
RT	time measurement	available	e, in particular, by means of a cycle		. goggles . protective clothing
	time synchronization		exhaled carbon dioxide, urine, and		helmets
	timing devices		ste matter are converted chemically or		pressure suits
			synthesis into oxygen, water, and food.		space suits
clogging	7		bioregenerative life support systems. bioregenerative life support systems		extravehicular mobility units
USE	plugging	GS	support systems		vapor barrier clothing
		ao	. life support systems		. shoes
clone c	ells		closed ecological systems		. socks
	ed August 2004)	RT	aerospace medicine		. suits
	A group of genetically identical cells all		bioastronautics		pressure suits space suits
	ded from a single common ancestral cell		ecology		extravehicular mobility units
	sis in eukaryotes or by binary fission in		ecosystems	RT	chemical defense
	otes. Clone cells also include popula- recombinant DNA molecules all carrying		food production (in space)		consumables (spacecrew supplies)
	e inserted sequence.		gnotobiotics long term effects		cotton
GS	cells (biology)		oxygen production		cuffs
	. cultured cells		space habitats		fabrics
	clone cells		spacecraft cabin atmospheres		leather textiles
RT	biotechnology		spacecraft environments		vests
	cell culturing		survival		
	cloning (biology) culture media	~	systems	clotting	
	culture techniques	closed fa	aults		blood coagulation
	cytology		geological faults		embolisms
	genetic engineering				thrombocytes
	organ culturing		pop systems		thromboplastin
	tissue culturing	USE	feedback control		
		closing		cloud cl	nambers
	(biology)	RT	blocking	DEF	Devices for observing the paths of
	ed August 1997)		plugging		particles, based on the principle that
нı	biotechnology cells (biology)		sealing		urated vapor condenses more readily
	clone cells		stopping		han on neutral molecules. ionization chambers
	culture media	Clostrid	ium	do	. cloud chambers
	culture techniques	GS	microorganisms	RT	bubble chambers
	cultured cells	ao	. bacteria		chambers
	deoxyribonucleic acid		Clostridium		radiation counters
	gene expression		Clostridium botulinum		spark chambers
	genes genetic code	RT	bacterial diseases		
	genetic code genetic engineering	Clastrid	ium botulinum	cloud co	over
	genetics	GS	microorganisms	UF	overcast
	phenotype	ao	. bacteria		anvil clouds
	plasmids		Clostridium	∞	blankets
	reproduction (biology)		Clostridium botulinum		cap clouds cirrocumulus clouds
		RT	bacteriology		cirrostratus clouds
close p	acked lattices		pathogens		climatology
GS	crystal lattices		toxic diseases		clouds (meteorology)
ОТ	. close packed lattices	closure	law		FIRE (climatology)
RT	body centered cubic lattices face centered cubic lattices	GS	laws		flight conditions
	lace centered cubic lattices	0.0	. closure law		ISCCP Project
		RT	field theory (physics)		meteorological parameters
closed L	oasins structural basins		k-epsilon turbulence model		meteorology METEOSAT satellite
USL	Structural basilis		statistical mechanics		nephanalysis
	And the second second		turbulent flow		shadows
closed GS	circuit television communication equipment	closure			sky
ao	. closed circuit television		barriers		sky brightness
	telecommunication	711 ~	blocking		solar radiation
	. closed circuit television		chokes (restrictions)		sunlight
	television systems		constrictions		Venus clouds
	closed circuit television		couplings		Venus surface weather forecasting
RT	cable television		coverings		weather forecasting
	color television		enclosures		
	educational television		end plates	cloud di GS	
	stereotelevision television cameras		fasteners fittings	G5	weather modification . cloud dispersal
	television receivers	~	gates	RT	climatology
	television transmission		joints (junctions)	***	clouds (meteorology)
			•		

dispersing stimulation content, and cloud optical properties. artificial satellites . scientific satellites cloud glaciation ∞ clouds ice formation SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS CloudSat Earth Observing System (EOS) cloud glaciation LISTED BELOW)
clouds (meteorology) CloudSat freezing RT aerosols graupel dust hail Aqua spacecraft electron clouds ice clouds Aura spacecraft exhaust clouds CALIPSO (Pathfinder satellite) ice nuclei H I regions clouds (meteorology)
Earth observations (from space) snow H II regions hydrogen clouds snow cover meteorological satellites ice clouds meteorology cloud height indicators infrared cirrus (astronomy) precipitation (meteorology) ceilometers Magellanic clouds remote sensing measuring instruments magnetic clouds meteoroid dust clouds . indicating instruments
. . cloud height indicators cloud-to-cloud discharges molecular clouds (added August 1999) . meteorological instruments Oort cloud GS electric current cloud height indicators Ophiuchi clouds . electric discharges ceilings (meteorology) particles . . lightning plasma clouds . . . cloud-to-cloud discharges cloud photographs Venus clouds photographs cloud photographs aerial photography all sky photography cloud-to-ground discharges clouds (meteorology) (added August 1999) A visible mass of water vapor sus-GS electric current pended in the atmosphere above the Earth's . electric discharges photography spaceborne photography surface. . . lightning chaotic cloud patterns . . cloud-to-ground discharges TIROS project GS clouds (meteorology) elves . artificial clouds sprites (atmospheric physics) cloud photography . . chemical clouds imagery . . . barium ion clouds clumps . photography . cap clouds agglomeration . . cloud photography . cirrocumulus clouds atomic clusters aerial photography . cirrostratus clouds ∞ clusters all sky photography . cirrus clouds metal clusters black and white photography cirrus shields molecular clusters **ESSA** satellites . convection clouds pattern recognition meteorological satellites . . arc clouds regression analysis METEOSAT satellite . . cumulonimbus clouds Nimbus 1 satellite . anvil clouds cluster analysis Nimbus 2 satellite . . cumulus clouds DEF The analysis of data with the object of finding natural groupings within the data either by hand or with the aid of a computer.

RT classifications Nimbus project . . . anvil clouds Nimbus satellites ice clouds spaceborne photography nimbostratus clouds TIROS operational satellite system noctilucent clouds data mining image analysis TIROS project stratocumulus clouds TIROS satellites stratus clouds image processing acid rain pattern recognition cloud physics Alpine meteorology remote sensing A subdivision of physical meteorology atmospheric correction statistical analysis concerned with physical properties of clouds in atmospheric moisture the atmosphere and the processes occurring CALIPSO (Pathfinder satellite) **Cluster Mission** CERES (experiment) (added September 1989) GS atmospheric physics climatology space missions cloud physics cloud cover **Cluster Mission** cloud dispersal Aitken nuclei Earth magnetosphere Atmospheric Cloud Physics Lab cloud seeding European space programs (Spacelab) ∞ clouds international cooperation atmospheric electricity CloudSat missions CERES (experiment) condensation nuclei NASA space programs condensation nuclei drop size scientific satellites condensing FIRE (climatology) SOHO Mission fog dispersal convection clouds solar terrestrial interactions drop size solar wind fog dispersal graupel ISCCP Project space plasmas meteorology nephanalysis Ophiuchi clouds MISR (radiometry) cluster variation method nephanalysis (added July 1997) precipitation (meteorology) ∞ physics DEF An exact, statistical-mechanical techprecipitation (meteorology) shadows nique for approximating the configurational en-∞ science tropy of a crystalline material, such as an alloy. Venus clouds thunderstorms The method is based on the cluster-cumulant weather modification weather expansion of entropy, that involves the expansion of the thermodynamic quantities of an infi-Clouds and the Earth's Radiant Energy nite system in terms of the density matrices of cloud seeding DEF Any technique carried out with the infinite groups of lattice sites called clusters. The tent of adding to a natural cloud in a planetary (added May 2007) method, first proposed by Kikuchi, was develatmosphere certain substances that will alter the USE **CERES** (experiment) oped as a theoretical tool for dealing with atomic ordering. natural development of that cloud. GS nucleation CloudSat CVM (solid state) binary alloys body centered cubic lattices . cloud seeding (added October 2005) An Earth observing satellite designed weather modification cloud seeding to measure those properties of clouds that are face centered cubic lattices critical for understanding their effects on both weather and climate. Its millimeter-wavelength clouds (meteorology) RT Hamiltonian functions precipitation (meteorology) intermetallics Cloud Profiling Radar (CPR) measures profiles Ising model

of cloud vertical structure, liquid and ice water

∞ methodology

rainmaking

order-disorder transformations elastic waves phase diagrams gravity waves strip mining phase transformations shallow water synthane solid solutions solitary waves statistical mechanics surface waves coal derived gases ternary alloys water depth DEF The gases which are derived from variwater waves ous coal gasification processes. ∞ waves RT catalysts (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN coal **CNSR** coal derived liquids USE Rosetta mission coal gasification atomic clusters coal utilization clumps CNT (nanotechnology) methane galactic clusters (added September 2001) synthesis gas globular clusters USE carbon nanotubes metal clusters coal derived liquids micelles Coachella Valley (CA) DEF Fluid hydrocarbons derived from the molecular clusters valleys GS liquefaction of coal. Pleiades cluster Coachella Valley (CA) RT asphaltenes Praesepe star clusters RT California catalysts star clusters deserts coal Virgo galactic cluster coal derived gases coagulation coal gasification clutches coagulation GS coal liquefaction engine parts blood coagulation coal utilization mechanical devices accumulations mechanical drives agglomeration coal gasification Aitken nuclei GS gasification clutter blood . coal gasification DEF Atmospheric noise, extraneous sigcoalescing . hydropyrolysis nals, etc. which tend to obscure the reception of concentrating coal a desired signal in a radio receiver, radarscope, deposition coal derived gases embolisms coal derived liquids GS echoes coal liquefaction fibrin . radar echoes flocculating cracking (chemical engineering) . clutter energy policy fuel cell power plants flotation airborne radar gelation hardening (materials) aases radio frequency interference hemorrhages hydrocarbon fuels space-time adaptive processing hydrocracking lignite lumping precipitation (chemistry) C-M diagram ∞ separation methanation USE color-magnitude diagram ∞ setting synthane settling CMBR (astronomy) (added July 2000) synthesis gas volatility solidification thrombopenia cosmic microwave background water treatment coal liquefaction radiation phase transformations
. liquefaction GS **CMOS** coal DEF A brown to black combustible sedi-DEF The combination of a PMOS (p-type . . coal liquefaction channel metal oxide semiconductor) with an NMOS (n-type channel metal oxide semiconmentary rock (in the geological sense) comasphaltenes posed principally of consolidated and chemically coal altered plant remains. coal derived liquids ductor). Used for complementary metal oxide GS fuels semiconductors. coal gasification . chemical fuels energy policy hydrocarbon fuels UF complementary metal oxide . . hydrocarbon fuels semiconductors . . . fossil fuels GS electronic equipment hydrocracking . . . . coal . solid state devices hydropyrolysis . . . . . anthracite . . semiconductor devices lignite ... metal oxide semiconductors lignite melting . . . . . solvent refined coal ... CMOS solvent refined coal semiconductors (materials) resources . metal oxide semiconductors . Earth resources coal utilization . . fossil fuels . CMOS GS utilization cascode devices . . . coal . coal utilization . . . . anthracite ITO (semiconductors) RT coal . . . . lignite latch-up coal derived gases ... solvent refined coal coal derived liquids rocks energy consumption DEF Radio waves emitted from incandes-. sedimentary rocks energy policy cent gaseous cyanide (CN) in space under low . . carbonaceous rocks energy technology pressures at wavelengths characteristic of the hydrocarbon fuels . . . coal elements comprising the gas. Used for cyanide ... anthracite lignite . . . . lignite solvent refined coal . solvent refined coal UF cyanide emission GS electromagnetic radiation ashes coalescence . radio waves asphaltenes USE coalescing . . radio emission bitumens . . CN emission carbonaceous materials coalescing DEF Growing of grains at the expense of emission coal derived gases coal derived liquids the remainder by adsorption or the growth of a . radio emission phase or particle at the expense of the remain-. CN emission coal gasification RT hydrocyanic acid coal liquefaction der by absorption or by reprecipitation. Used for coal utilization millimeter waves coalescence. UF coalescence radio sources (astronomy) coke agglomeration agitation energy policy RT cnoidal waves flv ash

hydropyrolysis

peat regolith

DEF Finite amplitude progressive waves in shallow water having a wave profile represented by the Jacobian elliptic function "CN."

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coagulation

flocculating

concentrating

	magnetic islands		wetlands		. anodizing
	mixers		venera (CA)		. electroplating
~	separation settling	GS	ranges (CA) landforms		. encapsulating . metallizing
	thickeners (equipment)	ao	. mountains	RT	anodic stripping
			coastal ranges (CA)		coatings
Coanda	effect	RT	California		corrosion prevention
RT ∝	attachment		Pacific Ocean		deposition
	bubbles	coastal	water		flame plating flame spraying
~	circulation control airfoils effects	GS	water		HVOF thermal spraying
~	entrainment		. nearshore water		lining processes
	fluid amplifiers		coastal water		metal finishing
	jet amplifiers	RT	Coastal Zone Color Scanner		metal spraying
	jet streams (meteorology)		environment effects	0	metallurgy .
	reattached flow		ocean color scanner oceans		metalorganic chemical vapor
~	separation thrust augmentation		sea water		deposition optical coatings
	tillust augmentation		shellfish		plasma spraying
coarser	ness		shorelines	0	priming
RT	fineness		vadose water		sealing
	Ostwald ripening		water depth		siliconizing
	reflectance		wetlands		spraying
	roughness surface properties	Coastal	Zone Color Scanner		surface finishing surface properties
	surface roughness		A spaceborne instrument devoted to		surface treatment
	surface stability		surement of ocean color. Every param-		vapor deposition
	surface temperature		optimized for use over water to the		
			n of other types of sensing.	coating	e
	currents	GS	scanners . ocean color scanner	DEF	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 to and near the shore. Used for littoral	RT	chlorophylls	decorati	ve, or functional adherent film after ap-
	and longshore currents.		coastal water		as a thin layer.
UF	littoral currents		colorimetry	GS	coatings
	longshore currents		multispectral band scanners		antiradar coatings     antireflection coatings
GS	circulation		ocean data acquisitions systems		. cathodic coatings
	water circulation		oceanographic parameters oceanography		. electroplating
	water currents		photomapping		. enamels
	ocean currents		remote sensing		. encapsulating
RT	beaches		remote sensors		. glass coatings
•••	coasts		satellite imagery		. glazes
~	currents		Sea-viewing Wide Field-of-view		. inorganic coatings anodic coatings
	gyres		Sensor water color		ceramic coatings
	oceanography		water color		. lacquers
	oceans	coastin	g flight		. magnetic films
	sea truth seas		The flight of a rocket between burnout		. metal coatings
	tides		t cutoff of one stage and ignition of		aluminum coatings
	wetlands		or between burnout and summit altitude		gold coatings
			num horizontal range.		nickel coatings zinc coatings
coastal		RT	ascent trajectories ballistic trajectories		. metallizing
USE	dunes		climbing flight		. paints
			cruising flight		. pressure sensitive paints
	ecology		descent trajectories		temperature sensitive paints
GS	ecology . coastal ecology	0	flight		. plastic coatings
RT	biometeorology		midcourse trajectories		. protective coatings
•••	coasts		parabolic flight		anodic coatings ceramic coatings
	Earth resources		rocket flight soaring		primers (coatings)
	environment effects		odamig		refractory coatings
	environments	coasts			. optical coatings
	marine environments marine resources	DEF	The strips of land of indefinite width		. rubber coatings
	oil pollution		many kilometers) that extend from the		. sprayed coatings
	phenology	landforn	line inland to the first major change in		. thermal control coatings . thermochromic coatings
	thermal pollution	RT	beaches		. birefringent coatings
	waterfowl		Caspian Sea	RT	additives
	wetlands		coastal currents		coating
			coastal ecology		composite materials
coastal USE	marshlands marshlands		coastal plains		corrosion
USE	marsmanus		coral reefs		corrosion prevention
coastal	nlaine		cusps (landforms) dunes		coverings cryodeposits
GS	land		estuaries		deposition
	. plains		lagoons		deposits
	. coastal plains		lakes		diamond films
	landforms		littoral drift		dipping
	. plains		marine environments		electroless deposition
RT	coastal plains bars (landforms)		oceans		energy absorption films
ΠI	beaches		seas shorelines		epoxy resins fabrics
	biometeorology		storm surges	•	o films
	coasts		tidal flats		finishes
	Earth resources		upwelling water		flame spraying
	ecology				furan resins
	environments	coating			hot corrosion
	piedmonts	GS	coating		impregnating

inhibitors	cobalt 60	cobalt fluorides
laminates	metals	oobait ilaonaoo
Langmuir-Blodgett films	. transition metals	
∞ layers	cobalt	cobalt isotopes
lining processes	cobalt isotopes	GS chemical elements
linings	cobalt 58	. cobalt
metal films	cobalt 60	cobalt isotopes
metal finishing	RT strategic materials	cobalt 58
metal spraying		cobalt 60
∞ metallurgy	cobalt 58	. nuclides
moisture resistance	GS chemical elements	isotopes
passivity	. cobalt	<b>cobalt isotopes</b> cobalt 58
pavements	cobalt isotopes	cobalt 58
plasma spraying	cobalt 58	metals
plasticizers	. nuclides	. transition metals
∞ priming	isotopes	cobalt
protection	cobalt isotopes	cobalt isotopes
rusting	cobalt 58	cobalt 58
sealers	radioactive isotopes	cobalt 60
sealing	cobalt 58	
∞ sheets	metals	
siliconizing	. transition metals	cobalt oxalates
solvents	cobalt	GS cobalt compounds
spraying substrates	cobalt isotopes	cobalt oxalates
surface finishing	cobalt 58	oxalates
surface properties	ashalt 60	. cobalt oxalates
thin films	cobalt 60 GS chemical elements	
vapor deposition	GS chemical elements . cobalt	cobalt oxides
vapor deposition		GS chalcogenides
waterproofing	cobalt isotopes <b>cobalt 60</b>	. oxides
waxes	. nuclides	metal oxides
weatherproofing	. isotopes	cobalt oxides
wings	cobalt isotopes	cobalt compounds
95	cobalt isotopes	cobalt oxides
coaxial cables	radioactive isotopes	
DEF Waveguides consisting of two concen-	cobalt 60	
tric conductors insulated from each other. Used	metals	COBE
for coaxial transmission.	. transition metals	USE Cosmic Background Explorer
UF coaxial transmission	cobalt	satellite
GS transmission lines	cobalt isotopes	
. communication cables	cobalt 60	Cobol
coaxial cables		UF Common Business Oriented
RT ∞ cables	cobalt acetates	Language
power lines	GS acetates	GS languages
submarine cables	. cobalt acetates	. programming languages
waveguides	cobalt compounds	Cobol
	. cobalt acetates	RT FORTRAN
coaxial flow	esters	PL/1
GS fluid flow	. cobalt acetates	
. coaxial flow		Ontre David (mades)
RT annular flow	cobalt alloys	Cobra Dane (radar)
annular nozzles	GS alloys	DEF Radar installation for monitoring Soviet
axial flow	. cobalt alloys	missiles. GS radar
axisymmetric flow	Astroloy (trademark)	. surveillance radar
flow geometry	Rene 41	. Cobra Dane (radar)
Hilsch tubes	Rene 63	. tracking radar
shear flow stratified flow	Rene 77	Cobra Dane (radar)
two dimensional flow	Rene 95	RT antenna arrays
two dimensional now	RT heat resistant alloys	early warning systems
coaxial nozzles	Kovar (trademark)	missile trajectories
DEF Class of nozzle configurations in jet	Stellite (trademark)	radar signatures
aircraft for reducing noise.	Waspaloy	·
RT aircraft noise		
axial flow	cobalt compounds	Coccomyces
fluid flow	GS cobalt compounds	GS plants (botany)
noise reduction	. cobalt acetates	. fungi
nozzle geometry	. cobalt fluorides	Coccomyces
∞ nozzles	. cobalt oxalates	
supersonic nozzles	. cobalt oxides	cochannel interference
variable cycle engines	. cohenite	(added April 2000)
	RT ∞ chemical compounds	DEF Interference caused by multiple, simul-
coaxial plasma accelerators	∞ Group 8 compounds	taneous transmissions occurring in the same
GS plasma accelerators	∞ metal compounds	communication channel.
coaxial plasma accelerators	a a la a la dissa si al a a	GS electromagnetic interference
RT ∞ accelerators	cobalt fluorides GS cobalt compounds	. radio frequency interference
magnetic nozzles	The second secon	cochannel interference
plasma engines	. cobalt fluorides	RT channel capacity
plasma guns	halogen compounds . fluorine compounds	channel noise
anavial transmission	fluorides	intersymbolic interference
coaxial transmission USE coaxial cables	metal fluorides	phase shift keying
transmission	cobalt fluorides	
เสเอเกออเบท	. halides	cochlea
cobalt	fluorides	GS anatomy
GS chemical elements	metal fluorides	. sense organs
. cobalt	cobalt fluorides	ear
cobalt isotopes	metal halides	labyrinth
cobalt 58	metal fluorides	cochlea

. . . . . Corti organ . multiple access ... pulse position modulation .. code division multiple access trellis coding Cock aircraft . radio communication Wiswesser notations USE AN-22 aircraft . . radio relay systems RT abbreviations addressing .. code division multiple access cockpit assistant systems transmission alphabets (added October 1997) . signal transmission analog to digital converters USE pilot support systems . . data transmission BCH codes . . . multiple access coders cockpit simulators . code division multiple access ∞ codes GS simulators Aloha system color coding . training simulators frequency division multiple access computer programming . . flight simulators multichannel communication computer programs . . cockpit simulators multiplexing concatenated codes cryptography data transmission training devices satellite networks . training simulators switching . . flight simulators wideband communication dictionaries digital techniques error detection codes . . cockpit simulators spacecraft cabin simulators code division multiplexing training devices identifying information theory The separation of two or more simulvirtual reality taneous radio transmissions over a common path by signal coding and bandwidth spreading. languages cockpit weather information systems transmission parity (added August 1996) . multiplexing pulse compression DEF A cockpit display system that provides Reed-Solomon codes . code division multiplexing flight crews with a graphical display of interactive symbolic programming data transmission weather information, including surface observademultiplexing symbols tions, terminal forecasts, radar summaries, and vector quantization frequency division multiple access lightning strike data. The system also provides radio communication Viterbi decoders weather trend information and has zooming radio transmission capabilities that enable the user to see informasatellite transmission coefficient of friction tion for the entire nation or to focus on specific signal transmission friction coefficient UF areas. telecommunication coefficients GS information systems wavelength division multiplexing . coefficient of friction . cockpit weather information surface properties systems coders coefficient of friction RT airborne equipment UF encoders friction cockpits RT analog to digital converters friction factor display devices coding friction reduction kinetic friction flight conditions decoders flight instruments programmers sliding friction meteorological parameters static friction weather forecasting ∞ codes wear resistance (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN cockpits coefficients aircraft compartments coefficients BCH codes cabin atmospheres . accommodation coefficient binary codes ∞ cabins aerodynamic coefficients biternary code canopies attenuation coefficients binomial coefficients coding cockpit weather information systems color coding ejection seats Clebsch-Gordan coefficients flying ejection seats concatenated codes coefficient of friction cryptography fuselages coherence coefficient pilot support systems digits correlation coefficients error correcting codes pressurized cabins error detection codes . coupling coefficients space capsules . diffusion coefficient Morse code spacecraft cabin atmospheres Soret coefficient Reed-Solomon codes spacecraft cabins . flow coefficients standards windshields . . discharge coefficient symbols heat transfer coefficients trellis coding cockroaches . hydrodynamic coefficients Blattidae UF . influence coefficient coding GS animals . structural influence coefficients . invertebrates UF encoding . ionization coefficients . . arthropods notation nozzle thrust coefficients ... insects GS coding . Onsager phenomenological .... cockroaches decoding coefficient redundancy encoding . recombination coefficient cocks . signal encoding . regression coefficients stopcocks . . amplitude modulation UF . scattering coefficients GS valves quadrature amplitude modulation virial coefficients cocks . frequency modulation . Wigner coefficient RT feedback frequency modulation gas valves RT ∞ constant hydraulic equipment FM/PM (modulation) constants frequency shift keying mechanical properties COD (cracks) ... pulse frequency modulation optical properties USE crack opening displacement . . phase modulation polynomials ... FM/PM (modulation) Racah coefficient COD aircraft phase shift keying statistical analysis . . . binary phase shift keying USE C-2 aircraft ∞ weight . . . . quadrature phase shift keying . . pulse modulation code division multiple access DEF Multiple access system in which users ... pulse amplitude modulation coenzymes are segregated by means of pseudorandom ... pulse code modulation GS organic compounds signal coding and bandwidth spreading so that . delta modulation . coenzymes the complete time and frequency axes are oc-.... differential pulse code . . adenosine diphosphate . . adenosine triphosphate

modulation . . . pulse frequency modulation . . . pulse time modulation

. . . . pulse duration modulation

. . cyclic AMP

. . thiamine

glutathione

CDMA. UF

GS

**CDMA** 

telecommunication

cupied and only the power is shared. Used for

RT enzymes .. COGO (programming language) .. coherent light light (visible radiation) cohenite . coherent light coercivity cobalt compounds magnetic properties GS RT four-wave mixing cohenite gamma ray lasers magnetization iron compounds **HCN** lasers cohenite holographic interferometry coesite DFF A polymorph of silicon dioxide. minerals holography cohenite chalcogenides laser outputs GS nickel compounds . oxides lasers . . dioxides cohenite monochromatic radiation . . . silicon dioxide neodymium lasers ∞ coherence optical computers . . . . quartz (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN . . . coesite optical memory (data storage) phase coherence . . silicon oxides RT plasmadynamic lasers ... silicon dioxide coherent radiation rare gas-halide lasers . . quartz coherent scattering scatter plates (optics) Shiva laser system . . . . coesite cohesion minerals congruences speckle holography . quartz elastic scattering squeezed states (quantum theory) coesite intelligibility silicon compounds laser outputs stimulated emission two-wavelength lasers . silicon oxides lasers ultraviolet lasers . . silicon dioxide maser outputs phase coherence . . . quartz . . . coesite wave dispersion coherent radar Earth crust wave propagation DEF A type of radar that employs circuitry Earth mantle which permits comparison of the phase of succoherence coefficient meteorites cessive received target signals. rutile GS coefficients GS radar coherence coefficient stishovite . coherent radar coherent radar stony meteorites coherence coefficient coherent radiation tektites continuous wave radar ∞ interference Doppler radar noise propagation coffee moving target indicators phase coherence GS farm crops pulse Doppler radar stochastic processes coffee pulse radar RT beverages radar detection coherent acoustic radiation search radar coherent radiation Coffin-Manson law surveillance radar coherent acoustic radiation DEF A relationship which enables one to tracking radar elastic waves estimate the fatigue life from the cyclic plastic coherent acoustic radiation strain range. The specific life for a given metal or RT ∞ radiation coherent radiation alloy is determined by its tensile ductility. ultrasonic radiation coherent sources UF underwater acoustics coherent transmission Coffin-Manson law coherent radiation crack propagation coherent anti-Stokes Raman spectroscopy . coherent acoustic radiation fatigue life Raman spectroscopy . coherent electromagnetic radiation fatigue tests . . coherent light metal fatigue coherent electromagnetic radiation . laser beams coherent radiation RT beams (radiation) cogeneration . coherent electromagnetic ∞ coherence DEF The generation of electricity or shaft radiation coherence coefficient power by an energy conversion system and the concurrent use of the rejected thermal energy . . coherent light continuous radiation laser beams corpuscular radiation from the conversion system as an auxiliary electromagnetic radiation elastic waves energy source. . coherent electromagnetic electromagnetic radiation electric generators radiation light (visible radiation) electric power plants . . coherent light optical properties energy conversion laser beams ∞ radiation generation beams (radiation) ∞ rays heat generation holography wave propagation ∞ power plants infrared radiation solar energy conversion interstellar masers thermal energy coherent scattering ionizing radiation DEF Scattering of photons or particles in which there are define phase relationships between the incoming and scattered waves. Ordinary controling in actuary waves. waste energy utilization krypton fluoride lasers lasers cognition light (visible radiation) nary scattering is coherent. With coherent scattering, interference occurs between the waves artificial intelligence masers cognitive psychology modulated continuous radiation decision making scattered by two or more scattering centers. The monochromatic radiation identifying total intensity is the vector sum of the amplitudes quantum electronics IFF systems (identification) of the various waves. ∞ radiation information processing (biology) GS scattering radio waves knowledge representation coherent scattering squeezed states (quantum theory) perception  $RT \, \infty \, coherence$ stimulated emission stimulated emission devices Compton effect traveling wave masers ultraviolet radiation cognitive psychology elastic scattering psychology GS incoherent scattering cognitive psychology inelastic scattering cognition nuclear scattering coherent light information processing (biology) DEF Light in which the phase relationship

between points in a beam remains constant

. coherent electromagnetic radiation

. coherent electromagnetic radiation

coherent radiation

. coherent light

electromagnetic radiation

throughout the beam.

intelligence

languages

GS

mental performance

coordinate geometry language

. programming languages

COGO (programming language)

coherent sources

coherent transmission

USE coherent radiation

coherent radiation

radiation sources

USE

cohesi			heterocyclic compounds		air masses
	The mutual attraction by which ele-		alkaloids	c	∞ fronts
	of a substance are held together.		colchicine		meteorological parameters
RT	agglutination bonding		. hydrocarbons		meteorology
_	∞ coherence		cyclic hydrocarbons colchicine		storms
	internal friction		Colcillonie		synoptic meteorology thunderstorms
	internal pressure	cold ac	climatization		tornadoes
	plastic properties		adaptation		warm fronts
	spreading	0.0	. acclimatization		weather forecasting
	spreading		cold acclimatization		weather forecasting
cohomo	oloav	RT	heat acclimatization	cold ga	as
	homology		subzero temperature	GS	
					. cold gas
COIL (I			ooded animals	RT	attitude control
	led August 1997)	USE	poikilothermia		gas jets
USE	chemical oxygen-iodine lasers				jet thrust
			okkeveld meteorite		
∞ coils	##05 05 A MODE ODEOUEIO TEDIMIO	GS	celestial bodies		ardening
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		. meteorites	SN	(LIMITED TO HARDENING OF
	LISTED BELOW)		stony meteorites		TEMPERATURES EXCLUDES
RT	electric coils		carbonaceous meteorites carbonaceous chondrites		(LIMITED TO HARDENING OF MATERIALS BY COOLING TO VERY LOW TEMPERATURES - EXCLUDES PRECIPITATION HARDENING AT OR
	inductors		Cold Bokkeveld meteorite		NEAR ROOM TEMPERATURE AND HARDENING VIA COLD WORKING)
	magnet coils		chondrites	GS	hardening (materials)
	magnetic coils		carbonaceous chondrites		. cold hardening
	springs (elastic)		Cold Bokkeveld meteorite	RT	brittleness
	toroids		Gold Bolllovoid motoorito		hardness
	wire	cold ca	thode tubes		phase transformations
COIN a	niroraft		Electron tubes containing cold cath-		precipitation hardening
UF		odes.	3		work hardening
UF	counterinsurgency aircraft LARA aircraft	GS	electron tubes		
	light armed reconnaissance aircraft		. cold cathode tubes	cold ne	
GS	attack aircraft		phototubes		Neutrons of less velocity than therma
ao	. COIN aircraft		photomultiplier tubes		s; at 152 deg. C their energy is below 0
	F-5 aircraft		frequency modulation	01 eV.	
	OV-10 aircraft		photomultipliers	GS	particles
RT o	∞ aircraft	RT	cathodes		. elementary particles
	light intratheater transport		electrodes		fermions
	3		gas discharges		neutrons <b>cold neutrons</b>
coincid	dence circuits	c	∞ gas tubes		. neutral particles
DEF	Circuits that produce a usable output		tube cathodes		neutrons
only wh	hen each of two or more input circuits		tunnel cathodes		cold neutrons
receive	pulses simultaneously or within an as-	cold ca	thodes	RT	baryons
	e time interval.		Cathodes that function without the ap-		54.75.15
GS	circuits		of heat.	cold pl	asmas
	coincidence circuits	GS	electrodes	UF	low temperature plasmas
RT	anticoincidence detectors		. cathodes	GS	particles
	gates (circuits)		tube cathodes		. charged particles
	radiation counters		cold cathodes		energetic particles
	synchronism	RT	gas discharges		plasmas (physics)
coining	•		tunnel cathodes		cold plasmas
	forming techniques				. corpuscular radiation
ao	. pressing (forming)	cold dr			energetic particles
	coining		Reducing the cross section (of wire) by		plasmas (physics)
	metal working		through a die or dies, at a temperature	DT	cold plasmas
	. coining		nan the recrystallization temperature.	RI	collisionless plasmas
RT	cold pressing		deep drawing		rarefied plasmas
	cold working	c	∞ drawing	cold pr	nnisser
	dies		metal drawing	RT	
	forging	cold flo	ow tests		compacting
	hot isostatic pressing	SN			hot isostatic pressing
	hot pressing		TESTS)		hot pressing
	sizing (shaping)	DEF	Tests of liquid rockets without firing		metal working
	stamping		check or verify the efficiency of a	c	∞ pressing
			ion subsystem, providing for the condi-		pressing (forming)
coke	fuele		and flow of propellants (including tank		upsetting
GS	fuels		ization, propellant loading, and propel-		
RT	. <b>coke</b> bitumens	lant fee GS	engine tests	cold ro	
ΠI	carbon	do	. cold flow tests	GS	0 1
	charcoal		ground tests		. cold working cold rolling
	coal		. cold flow tests	RT	metal working
	lignite	RT	checkout	пі	motal working
	gs		feed systems	cold st	renath
Coke a	ircraft		plastic properties		mechanical properties
USE	AN-24 aircraft		prelaunch tests		. cold strength
			propellant tests	RT	
colchic			propulsion system performance		low temperature environments
GS	bases (chemical)		rocket engine design		low temperature tests
	. alkaloids		static tests	c	∞ strength
	. colchicine	c	∞ tests		
	nitrogen compounds	,		cold su	
	. alkaloids	cold for			cold walls
	colchicine	USE	cold working		cryogenic fluid storage
	organic compounds	معاط المسا	anta	c	∞ surfaces
	. cyclic compounds	cold fro		- د امام	loranco
	cyclic hydrocarbons colchicine	us	fronts (meteorology) . cold fronts		lerance tolerances (physiology)
	COICHICHIE		. com nones	us	tolerances (physiology)

	. cold tolerance		winding		. vector analysis
RT	body temperature				collinearity
	exposure	Coleop	tera		linearity
	frostbite	GS	animals		collinearity
	heat tolerance		. invertebrates		
	homeostasis		arthropods		
	subzero temperature		insects		n avoidance
	thermoregulation		Coleoptera	UF	collision warning devices
	vasoconstriction		beetles	GS	avoidance
	74000011011011011		tribolia		. collision avoidance
aald tra	no.		boll weevils		Beacon Collision Avoidance
cold tra					System
GS	traps	colic		RT	air navigation
РΤ	. cold traps	GS	diseases		air traffic
RT	condensers (liquefiers)		. colic		air traffic control
	cryogenic temperature	RT	gastrointestinal system		aircraft approach spacing
	cryogenics		intestines		aircraft guidance
	cryotrapping				aircraft safety
	freezing	collage	ns		airspace
	refrigerating	RŤ	bone mineral content		approach control
	vacuum apparatus		connective tissue		automatic traffic advisory and
	vapor traps		gelatins		resolution
			leather		collisions
cold wa	lls		proteins		flight paths
USE	cold surfaces		skin (anatomy)		flight rules
	walls		Skiri (driatority)		flight safety
		collaps	e		midair collisions
cold wa	tor	GS	collapse		National Airspace Utilization System
GS GS	water	ao	gravitational collapse		radar
GS		RT	buckling		radar navigation
DT	. cold water		deformation		radio navigation
RT	potable water		failure		runway incursions
			structural failure		threat evaluation
cold we			Structural failure		traffic control
GS	weather	collatin	n n		
	. cold weather	RT	binding		visual flight
RT	frost damage	пі	compilers		warning
	low temperature environments		•		warning systems
	pressure ice		correlation		
	snow cover		insertion	collisio	n parameters
	subzero temperature		position (location)		In orbit computation, the distances be-
	weatherproofing		positioning		enters of attraction of central force fields
	winter				extension of velocity vectors of moving
		collecti			at great distances from the centers. In
		RT	accumulations		
	eather tests		acquisition		amics and atomic physics, any of sev-
GS	environmental tests		assembling		ameters such as cross section, collision
	. cold weather tests		input		ean free path, etc., which provide a
RT	high temperature tests		lumping		e of the probability of collision.
	low temperature tests		museums	GS	collision parameters
~	tests	0	∘ receiving		. collision rates
			sampling	RT ∝	absorption
cold we	Aldina		selection		beam interactions
	welding		stockpiling	∞	cross sections
do	9		Stookpiiing		mean free path
	. pressure welding	collecto	rs		nuclear interactions
ОТ	cold welding		accumulators		particle interactions
RT	adhesion	OOL	accumulators		particle theory
	bonding	colleges	3		scattering
	high vacuum	USE	universities		Souttering
	vacuum effects	OOL	universities		
		collima	tion	collisio	
cold wo	orking	GS	collimation	DEF	Ratios defined by the average number
DEF	Deforming metal plasticity at a tem-	ao	. beamforming	of collisi	ons per second suffered by a molecule
	lower than the recrystallization tem-	RT		or other	particle moving through a gas.
	e. Used for cold forming.	n i	adjusting		collision parameters
UF	cold forming		alignment		collision rates
GS	forming techniques		beam steering		rates (per time)
ao	. cold working		directivity		. collision rates
	cold rolling		four-wave mixing		
			microbeams		
	electrohydraulic forming	c	orientation	collision	warning devices
ь.	explosive forming		polarization (waves)		collision avoidance
RT	cladding				warning systems
	coining	collima	tors		9 0,000000
	deep drawing	DEF	Optical devices which render rays of		
	extruding	light pa	rallel. Used for autocollimators.	collisio	nal plasmas
	forging	UF	autocollimators	GS	particles
~	joining	GS	optical equipment		. charged particles
	magnetic forming		. collimators		energetic particles
	metal drawing	RT	beam waveguides		plasmas (physics)
	metal spinning		mirrors		collisional plasmas
	metal working		optical measurement		strongly coupled plasmas
	peening		optioal measurement		. corpuscular radiation
	roll forming	collinea	arity		energetic particles
	shearing	GS	analysis (mathematics)		plasmas (physics)
	shot peening		. calculus		collisional plasmas
	stamping		vector analysis	5.7	strongly coupled plasmas
	stretch forming		collinearity	RT	electron runaway (plasma physics)
	stretching		. real variables		high temperature plasmas
	swaging		vector analysis		nuclear fusion
	temper (metallurgy)		collinearity		plasma conductivity
	upsetting		geometry		plasma density

	plasma waves		dispersing		coding
collision	nless plasmas		flocculating gelation		
	particles		homogenizing		hancement
	. charged particles		precipitation (chemistry)	USE	color coding
	energetic particles plasmas (physics)		suspending (mixing)	color in	frared photography
	collisionless plasmas	colloids			A representation of temperature differ-
	. corpuscular radiation	UF	colloidal suspensions	ences u	sing false colors.
	energetic particles		lyophils	GS	imagery
	plasmas (physics)	GS	mixtures		. photography
	collisionless plasmas		. dispersions		multispectral photography
RT	cold plasmas		colloids		infrared photography color infrared photography
	ionic waves Kelvin-Helmholtz instability		aerosols fog	RT	color photography
	low density research		colloidal propellants		infrared imagery
	magnetic islands	RT	Brownian movements		
	rarefied plasmas		clays	color pe	erception
			colloiding	USÉ	color vision
collision GS	collisions		electrodialysis electrophoresis		
ao	. atomic collisions		emulsions		hotography
	. cometary collisions		foams	GS	imagery
	. Coulomb collisions		gels		. photography
	. inelastic collisions		homeostasis	RT	color photography aerial photography
	. ionic collisions		micelles		black and white photography
	. meteorite collisions . midair collisions		nonNewtonian fluids particles		cinematography
	bird-aircraft collisions		plastisols		color infrared photography
	. asteroid collisions	000	separation		orthophotography
	. molecular collisions		·		photochromism
	. particle collisions	Colomb			photomapping shadowgraph photography
RT	air bag restraint devices	GS	nations		stereophotography
	air traffic control aircraft accidents	RT	. Colombia Llanos Orientales (Colombia)		ultraviolet photography
	aircraft hazards	111	Magdalena-Cauca Valley (Colombia)		underwater photography
	aircraft safety		South America		
	collision avoidance			color te	levision
	crashes	colonies		GS	telecommunication
	flight hazards	RT	bacteria		. color television
	flight paths gas atomization		bacteriology		television systems . color television
	impact velocity	color		RT	closed circuit television
	pilot error	UF	coloration		communicating
	recoilings	GS	electromagnetic properties		communication equipment
	runway incursions		. optical properties		educational television
	scattering		color		satellite television
	i		iridescence stellar color		spacecraft television
collocat RT	assemblies		water color		stereotelevision television reception
	assembly	RT	brightness		television transmission
	congruences		chromophores		
	position (location)		colorimetry	color vi	sion
	positioning		contrast	UF	color perception
colloida	I generators		darkness dichroism	GS	vision
	atomizing		discoloration		. color vision
• • • •	dispersions		electrochromism	RT	eye (anatomy)
000	generators		fading		Young-Helmholtz theory
	plasma diffusion		human factors engineering		
	plasma generators		incandescence	Colorad	
	sprayers vaporizers		isochromatics light (visible radiation)	GS	nations . United States
	- apo. 12010		perception		Colorado
colloida	l propellants		phototropism	RT	Colorado Plateau (US)
UF	cordite	∞	physical properties		Colorado River (North America)
GS	mixtures		prewhitening		Manitou (CO)
	. dispersions colloids		spectra		Pike's Peak (CO)
	colloidal propellants		surface properties symbols		San Juan Mountains (CO)
	propellants		thermochromatic materials	0-1	In Distance (UC)
	colloidal propellants		vegetative index	GS	<b>lo Plateau (US)</b> land
RT	gelled propellants		visibility	do	. Colorado Plateau (US)
	slurry propellants		vision		landforms
	solid propellants		wave dispersion		. terraces (landforms)
	solid suspensions	color (na	article physics)		plateaus
colloidal	suspensions		quantum chromodynamics		Colorado Plateau (US)
	ed May 2001)		<b>,</b>	RT	
USE	colloids	color ce			Colorado highlands
			F centers		New Mexico
colloidii	•	HI∝	centers		Utah
UF GS	lyophilization mixing		Franck-Condon principle		
us	. colloiding	color co	oding	Colorad	lo River (North America)
RT	agitation	DEF	3		rivers
	atomizing		identification. Used for color enhance-		. Colorado River (North America)
	colloids	ment.		RT	Arizona
	comminution	UF	color enhancement		Colorado
	compounding	HI∝	codes		Mexico

Utah coloration USE color

#### color-color diagram

DEF A two-axis coordinate graph showing the distribution of stars or other objects with reference to different color indices.

diagrams

. color-color diagram

color-magnitude diagram Hertzsprung-Russell diagram stellar color stellar spectra stellar spectrophotometry UBV spectra

#### colorimetry

GS optical measurement

colorimetry

chemical analysis

chromatography Coastal Zone Color Scanner

color

electrophotometry liquid chromatography ocean color scanner

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 stellar magnitude

cols

USE gaps (geology)

## Columbia (Orbiter)

Space Shuttle Orbiter 102 manned spacecraft

GS

- . 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)

GS 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

SN (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 superceded by the "Columbus totalion was later superceded by the "Columbus" 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) RT 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 GS

. columns (supports)

. tapered columns RT 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) SN

RT 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

## $\infty \ \ combination$

(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

- 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.

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

Combined Release and Radiation Effects Sat

USE CRRES (satellite)

### combined stress

stresses GS

combined stress

fatigue life

179

stress analysis supersonic combustion ramjet combustible flow stress concentration combustion stress intensity factors combustion chemistry combustion chambers Damkohler number Containers in which the actual burning DFF flame propagation combustibility of fuel takes place. Used for combustors. heat of combustion USE flammability combustors ignition GS combustion chambers ∞ physics combustible flow . dump combustors plasmas (physics) GS fluid flow burners reaction-diffusion equations . reacting flow ∞ chambers ∞ science . combustible flow combustion thermochemistry boundary layer combustion combustion physics turbulent combustion engine parts engines combustion products flame holders detonation waves dump combustors combustion products flameout GS products flame propagation fuel flow furnaces . reaction products internal combustion engines jet engines turbulent combustion . . . soot air pollution pistons turbulent flames refractories turbulent flow ashes spark plugs biomass burning thrust chambers combustible 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 radiacombustion combustion chemistry
DEF The study of the exothermic oxidation combustion chemistry diluents reactions occurring immediately before and durdust ing combustion. tion outside the visible spectrum. Used for burning and burning process.

UF burning exhaust gases ĞS thermochemistry flue gases . combustion chemistry chain reactions (chemistry) fly ash burning high temperature gases chemical engineering burning process GS odors combustion chemical reactions particulates . afterburning . boundary layer combustion chemistry combustion pollution transport polycyclic aromatic hydrocarbons . deflagration combustion physics rocket exhaust erosive burning combustion products smog . fuel combustion combustion stability smoke . nuclear fuel burnup combustion synthesis vapors hydrocarbon combustion exothermic reactions wastes . hypersonic combustion flame temperature . metal combustion oxidation . propellant combustion reacting flow combustion stability . . solid propellant combustion acoustic combustion reaction kinetics .. solid propellant ignition chugging combustion instability dynamic characteristics dynamic stability . biomass burning combustion control . smoldering DEE Control of factors (temperature, prespontaneous combustion heating, draft, excess or deficient air, etc.) which supersonic combustion ... combustion stability affects combustion efficiency. turbulent combustion automatic control . flame stability backfire burning rate stability burning rate burning time combustion . dynamic stability ... combustion stability ∞ control burnout engine control . . flame stability charring fuel control axial modes chemical explosions temperature control burning rate combustion chambers combustion combustion chemistry combustion efficiency combustion chemistry combustion chemistry combustion control combustion efficiency combustion physics combustion products The efficiency with which fuel is fuel combustion burned, expressed as the ratio of the actual motion stability energy released by the combustion to the popressure oscillations tential chemical energy of the fuel. propellant combustion combustion stability efficiency smoldering combustion synthesis combustion efficiency solid propellant combustion combustion temperature ACEE program thermal instability combustion vibration burning rate thermoacoustic effects detonation burning time turbulent combustion diffusion flames combustion velocity coupling exothermic reactions dump combustors explosions exhaust gases combustion synthesis (added April 1993) extinguishing fuel combustion fire damage fuel consumption RT annealing firebreaks fuel-air ratio cermets power efficiency combustion flame propagation propellant combustion combustion chemistry propellant consumption flameout exothermic reactions flames propulsion system performance propulsive efficiency functionally gradient materials flammability powder metallurgy flashback thermodynamic efficiency sintering forest fires heat balance combustion heat heat generation USE heat of combustion combustion temperature ignition temperature ignition limits . combustion temperature combustion instability incendiary ammunition USE combustion stability combustion internal combustion engines erosive burning combustion physics flame temperature oxidation

thermodynamics

combustion physics

aerothermodynamics

GS

flash point

ignition temperature

operating temperature

∞ physics

quenching (cooling)

spark ignition

spontaneous combustion

#### combustion vibration

GS vibration

. combustion vibration

combustion elastic waves structural stability

combustion waves

USE flame propagation

#### combustion wind tunnels

test facilities

wind tunnels

. combustion wind tunnels

hypersonic wind tunnels hypervelocity wind tunnels

combustors

USE combustion chambers

#### Comet 4 aircraft

de Havilland DH 106 aircraft UF

DH 106 aircraft commercial aircraft GS

Comet 4 aircraft

de Havilland aircraft

Comet 4 aircraft

Hawker Siddeley aircraft

Comet 4 aircraft

jet aircraft

. Comet 4 aircraft monoplanes

Comet 4 aircraft

passenger aircraft Comet 4 aircraft

RT ∞ aircraft

### comet heads

GS celestial bodies

. comet heads

 $RT \, \infty \, coma$ 

cometary atmospheres solar system

#### comet nuclei

celestial bodies GS

. comet nuclei

 $RT \, \infty \, coma$ 

Comet Nucleus Tour cometary atmospheres

Oort cloud

Rosetta mission

solar system

Stardust Mission

## Comet Nucleus Tour

(added February 1999)
DEF A NASA Discovery-class mission to acquire imagery and comparative spectral maps of comet nuclei and analyze comet dust flows. The mission spacecraft will fly to within 100 kilometers of at least three near-Earth comets including Comet Encke, Comet Schwassmann-Wachmann, and Comet d'Arrest. UF CONTOUR (mission)

GS space missions

. flyby missions

. Comet Nucleus Tour

comet nuclei

Encke comet

Schwassmann-Wachmann comet

swingby technique

### Comet Rendezvous Asteroid Flyby Mission

(added November 1988)

CRAF mission

space missions . asteroid missions

. . Comet Rendezvous Asteroid Flyby Mission

. flyby missions

.. Comet Rendezvous Asteroid Flyby Mission
RT Mariner Mark 2 Spacecraft

∞ missions

NASA space programs Near Earth Asteroid Rendezvous

Mission

Rosetta mission

#### comet tails

celestial bodies GS

. comet tails

RT ∞ coma

cometary atmospheres Grigg-Skjellerup comet radiation pressure solar system solar wind

#### cometary atmospheres

The region of the coma of a comet as well as the gaseous part surrounding the coma that often is a hydrogen atmosphere that contains particulate matter.

RT astronomical photometry

∞ atmospheres

∞ coma

comet heads comet nuclei

comet tails

cometary magnetospheres

comets ionopause

#### cometary collisions

(added June 1994)

collisions

cometary collisions

asteroid collisions

craters

Cretaceous-Tertiary boundary

Deep Impact Mission hypervelocity impact meteorite collisions

near Earth objects shatter cones

Shoemaker-Levy 9 comet

## cometary magnetospheres

(added September 1988)

cometary atmospheres

comets

∞ magnetospheres

## comets

DEF Luminous members of the solar system composed of a head, or coma, and often with a spectacular gaseous tail extending a great distance from the head.

GS celestial bodies

#### . comets

. . Arend-Roland comet

. . Austin comet
. . Brorsen-Metcalf comet

Encke comet

Giacobini-Zinner comet Grigg-Skjellerup comet

Hale-Bopp comet

Halley's comet

Humason comet

IRAS-Araki-Alcock comet

Kohoutek comet

Morehouse comet Mrkos comet

Okazaki-Levy-Rudenko comet

Schwassmann-Wachmann comet

Shoemaker-Levy 9 comet

. . Tempel 1 comet

. . Tempel 2 comet

West comet . Wild 2 comet

RT Bessel-Bredichin theory

∞ coma

cometary atmospheres cometary magnetospheres

Deep Impact Mission hypothetical planets

Kuiper belt

meteorite parent bodies

meteoroid showers meteoroids

near Earth objects Oort cloud

solar system

comfort

RT acoustics

air conditioning

efficiency

environmental engineering

human factors engineering

humidity illuminating ∞ performance

physiological effects psychological effects reward (psychology)

riding quality seats temperature

#### command and control

UF command-control RT ∞ automation

ventilation

autonomy AWACS aircraft ∞ commands

∞ control decision making

E-2 aircraft E-3A aircraft E-4A aircraft

ground support equipment

logistics management surveillance

## targets command quidance

DEF The guidance of a spacecraft or rocket by means of electronic signals sent to receiving devices in the vehicle. Used for command systems.

UF command systems guidance (motion)
. command guidance GS

RT ∞ commands ground support equipment injection guidance midcourse guidance rendezvous guidance rendezvous spacecraft spacecraft guidance

terminal guidance

command languages Vocabularies to interactively execute activities such as computer retrieval or input.

languages . command languages

. query languages human-computer interface information retrieval

command modules

compartments

. command modules

modules . spacecraft modules

command modules

spacecraft components . spacecraft modules

. command modules

RT Apollo spacecraft 

Marquardt R4D engine

service modules spacecraft docking modules spacecrew transfer

## command service modules

CSM

GS modules

. spacecraft modules

. . command service modules

spacecraft components

. spacecraft modules . command service modules

Apollo project lunar orbits manned spacecraft Skylab 1

Skylab 2 Skylab 3

Skylab 4

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spacecraft docking modules MD 80 aircraft . crushing P-160 aircraft . grinding (comminution) command systems SE-210 aircraft shredding USE command guidance . supersonic commercial air transport atomizing . . Boeing 2707 aircraft beneficiation command-control TU-144 aircraft chipping USE command and control Boeing 717 aircraft colloiding TU-104 aircraft crushers Commando aircraft TU-124 aircraft cutting USE C-46 aircraft TU-134 aircraft disintegration TU-154 aircraft flaking ∞ commands TU-204 aircraft fragmentation (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN VC-10 aircraft gas atomization grinding mills metal powder air transportation autonomy ∞ aircraft ∞ milling particle production command and control airline operations command guidance cargo aircraft command modules civil aviation powder metallurgy decisions commuter aircraft ∞ reduction EH-101 helicopter commerce Committee on Space Research general aviation aircraft UF *COSPAR* (committee) RT ∞ aerospace sciences GS commerce ground effect machines electronic commerce iet aircraft RT commercial spacecraft passenger aircraft conferences consumption European space programs international cooperation rotary wing aircraft costs supersonic transports NASA programs economic development transport aircraft utility aircraft programs gross national product V/STOL aircraft industrial areas commodities water takeoff and landing aircraft industries government procurement ∞ investment commercial aviation manufacturing liabilities market research USE civil aviation losses commercial aircraft procurement management manufacturing products market research commercial energy marketing Common Business Oriented Language allocations **PERT** USE Cobol distributing product development domestic energy project management commonality economic factors DEF The factors which are common in risk ∞ energy equipment or systems.
GS standardization supplying energy consumption energy conversion commonality aircraft equipment commerce lab industrial energy RT government/industry relations transportation energy ∞ microgravity applications mission planning cost reduction efficiency commercial off-the-shelf products space commercialization equipment specifications (added March 2001) Space Shuttle payloads DEF Readily-available, commerciallyground support systems user requirements developed products; often referring to commerinteroperability cial products that can be used as an alternative spacecraft components commercial aircraft specifications to in-house or customized product development. commercial aviation COTS products commercial aircraft Commonwealth of Independent States (added September 1993) GS products . Boeing 707 aircraft commercial off-the-shelf products Boeing 720 aircraft commercialization CIS Boeing 727 aircraft RT cost effectiveness Asia Boeing 727 aircraft
Boeing 733 aircraft
Boeing 737 aircraft
Boeing 747 aircraft
Boeing 757 aircraft government procurement Europe nations procurement management Russian Space Program product development Boeing 767 aircraft communicating commercial spacecraft Boeing 777 aircraft DEF Commercial satellites and GS communicating Comet 4 aircraft CV-340 aircraft spacecraft operated by the private sector. aircraft communication commercial spacecraft electrocutaneous communication CV-440 aircraft RCA Satcom satellites . ground-air-ground communication CV-880 aircraft aerospace industry . information dissemination CV-990 aircraft aerospace vehicles . . messages . DC 3 aircraft . . selective dissemination of commerce . DC 7 aircraft information communication satellites DC 8 aircraft . interstellar communication industries DC 9 aircraft . lip reading space commercialization . DC 10 aircraft . point to point communication space industrialization . DH 121 aircraft space manufacturing . . NASCOM network DO-328 aircraft . underground communication space processing . Electra aircraft VentureStar launch vehicle . verbal communication . European Airbus . conversation . . A-300 aircraft RT color television commercialization A-310 aircraft (added March 1997) computer conferencing . . A-320 aircraft commercialization crosstalk . . A-330 aircraft space commercialization education commercial off-the-shelf products . . A-340 aircraft frequency assignment government/industry relations A-380 aircraft information . F-28 transport aircraft marketing information flow . IL-62 aircraft product development information management . Jetstream aircraft message processing technology transfer . L-1011 aircraft Morse code stereotelevision . Lear jet aircraft comminution systems engineering . light transport aircraft attrition (materials)

GS

comminution

TDR satellites

. MD 11 aircraft

technology transfer telecommunication

#### communication

telecommunication GS

- . communication
- . . facsimile communication
- . automatic picture transmission
- . line of sight communication
- optical communication
- . free-space optical communication
- ship to shore communication
- underwater communication
- voice communication
- . . . telephony

. quantum communication

computer conferencing

information

information flow

information management

Marisat satellites message processing

spread spectrum transmission

technology transfer

#### communication cables

#### transmission lines

#### . communication cables

. . coaxial cables

cable television

∞ cables

electric wire optical fibers

submarine cables

waveguides

## communication equipment

### communication equipment

. Advanced Vidicon Camera System (AVCS)

- . closed circuit television
- . diplexers
- . interphones
- . PLAT system
- . radio receivers
- . . superheterodyne receivers
- . . transmitter receivers
- . . whistler recorders . spacecraft television
- digital spacecraft television
   Ranger block 3 television system
   satellite television
- . stereotelevision

antenna components biotelemetry color television Earth terminals educational television RT

equipment

furlable antennas

high definition television

inertialess steerable antennas

information adaptive system logarithmic receivers

matched filters

orbiting dipoles

P.A.C.M. telemetry

pulse frequency modulation

pulse frequency modulation telemetry

radio communication

radio equipment radio relay systems

radio telegraphy

radio telemetry

spherical antennas

telemetry

telephony

television systems

unified S band

## communication networks

DEF Organization of facilities for the rapid reception of, transmission of, and/or relaying of electrical impulses for reproduction as printed messages, pictures, or other data.

GS networks

## . communication networks

- . Aloha system . Deep Space Network
- . . internets

. . . ARPA computer network

World Wide Web

Iridium network

local area networks

. . NASCOM network

VSAT (network)

. . wide area networks access control

asynchronous transfer mode

broadcasting carrier sense multiple access

data links

defense communications system

(DCS)

demand assignment multiple access electronic bulletin boards

electronic mail

frequency division multiplexing network control

packet switching packets (communication) protocol (computers) pulse communication

radio communication

satellite constellations satellite networks

telecommunication

video conferencing

## communication satellites

Satellites designed to reflect or relay electromagnetic signals used for communica-

Iridium satellites GS artificial satellites

## . communication satellites

. . ACTS

. . aeronautical satellites

. Aerosat satellites

. . Arcomsat

. . Communications Technology

Satellite

... ComStar C ... NATO 3B satellite

ComStar satellites

. . direct broadcast satellites . . European Communications

Satellite

. . Intelsat satellites

. . low frequency transionospheric

satellites

. . L-Sat

. . Marecs maritime satellites

Marots (ESA)

Molniya satellites

MSAT

. MSAI
. Palapa satellites
. Palapa 2 satellite
. Raduga satellite
. RCA Satcom satellites
. Relay satellites
. Relay 1 satellite
. Relay 2 satellite
. Symphonie satellites

Symphonie satellites
SYNCOM satellites
Early Bird satellites
SYNCOM 1 satellite
SYNCOM 2 satellite
SYNCOM 3 satellite

SYNCOM 4 satellite

TDR satellites Westar satellites

Advent Project

carrier to noise ratios

commercial spacecraft

Comsat program Defense Communications Satellite

System demand assignment multiple access

domestic satellite communications systems

Echo project

electronic mail

downlinking
Earth terminal measurement system

Fleet Satellite Communication System

geophysical satellites ground-air-ground communication

HET experiment Indian space program INMARSAT satellites Iridium network

land mobile satellite service mobile communication systems

network control

orbit spectrum utilization passive satellites radio relay systems satellite communication satellite constellations satellite networks Skynet satellites space commercialization

space communication

Synchronous Communications
Satellite Proj
Synchronous Meteorological Satellite
synchronous platforms
synchronous satellites
telecommunication telecommunication teleconferencing Telstar project unmanned spacecraft

uplinking

wireless communication

#### communication systems USF telecommunication

communication theory

UF statistical communication theory cross coupling cybernetics data transmission high level languages information theory intelligibility

languages lattices (mathematics)

lattices (mathematics)
messages
network synthesis
quantum communication
random noise
random processes
redundancy

semantics sentences signal to noise ratios switching theory

# $\infty$ theories

Communications Technology Satellite

Hermes satellite

#### artificial satellites . communication satellites

... Communications Technology Satellite

ComStar C

. . NATO 3B satellite

Canada Canadian space program international cooperation

NASA programs synchronous satellites technology assessment technology utilization

## communities

communities . inhabitants

. . mountain inhabitants

. space colonies cities

demography ethnic factors

integrated energy systems megalopolises

minorities Modular Integrated Utility System

nations police politics regimes sociology

Starsite program United Nations urban development urban planning

commutation urban research time discrimination transits compatibility commutation comparators DEF A characteristic ascribed to a major DEF Sequential sampling, on a repetitive DEF In computer operations, devices or cirsubsystem that indicates it functions well in the timesharing basis, of multiple data sources for cuits for comparing information from two overall system. Also applied to the overall systransmitting or recording, or both, on a single sources. tem with reference to how well its various sub-GS measuring instruments systems work together, as in 'the vehicle has RT commutators comparators good compatibility. 'Also applied to materials which can be used in conjunction with other interpolation RT anticoincidence detectors switching theory discriminators materials and not react with each other under error signals commutators normal operating conditions. harmonic generators DEF Devices used to accomplish time divi-GS compatibility monochromators sion multiplexing by repetitive sequential switchbiocompatibility reflectometers ing. chemical compatibility ĞS commutators electromagnetic compatibility comparison . decommutators . systems compatibility analogies RT armatures acceptability cost analysis commutation affinity Earth analogs distributors conventions economic analysis permissivity electric contacts estimates stability electric motors evaluation suitability examination rotating generators versatility intercalibration matching commuter aircraft  $\infty \ \ \text{compensation}$ pattern registration (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) (added October 1988) ranking passenger aircraft . commuter aircraft allowances . ATR-72 aircraft compartmentation errors air transportation USE compartments image motion compensation ∞ aircraft instrument compensation commercial aircraft compartments temperature compensation general aviation aircraft compartmentation transient response GS compartments compact disk read-only memory devices . air locks compensators USE optical disks . airlock modules balance . aircraft compartments bias compact galaxies . command modules compulsators (added November 1988) . pressurized cabins error signals GS celestial bodies spacecraft cabins feedback . galaxies . test chambers loop transfer recovery . compact galaxies . . anechoic chambers video equipment galactic structure . . pressure chambers . . . hyperbaric chambers compensatory tracking compacting ... vacuum chambers GS tracking (position) agglomeration compensatory tracking . reverberation chambers cold pressing bays (structural units) infrared tracking densification optical tracking ∞ cells hot isostatic pressing crew experiment stations radar tracking hot pressing crew observation stations powder metallurgy competition crew workstations presses RT athletes enclosures ∞ pressing human performance modules pressing (forming) human reactions rooms vibration physical fitness space station modules spacecraft modules compactness compilation (computers) USE void ratio USE compilers **COMPASS** (programming language) GS languages companding compiler programs A process in which compression is . programming languages USE compilers . . Assembly language followed by expansion, as in noise reduction ... COMPASS (programming systems compilers language) (PROGRAM-MAKING ROUTINES FOR DIGITAL COMPUTERS) compilation (computers) frequency modulation RT SN RT compilers modulation UF computer programming radio transmission compiler programs signal processing computer programs
. compilers GS signal to noise ratios DEF Instruments for indicating a horizontal assembler routines RT companion stars reference direction, specifically, magnetic comautocoders GS celestial bodies C (programming language) GS measuring instruments . stars collating
COMPASS (programming language) . . double stars . indicating instruments ... binary stars . . compasses computer program integrity . . . . companion stars . . . gyrocompasses computer systems programs . . . . Nemesis (star) magnetic compasses data conversion routines RT brown dwarf stars . . . solar compasses disk operating system (DOS) parallax navigation aids **FORTRAN** stellar motions . navigation instruments operating systems (computers) triple stars .. compasses parsing algorithms variable stars . . . gyrocompasses Pascal (programming language) x ray binaries . . . magnetic compasses . . solar compasses

aircraft instruments

flight instruments

radar beacons radio direction finders

beacons

buovs

programmed instruction

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

subroutines

∞ complement

comparator circuits

GS

circuits

clipper circuits

delay circuits

discrimination

comparator circuits

DEF An angle equal to 90 deg. minus a given angle. The true complement of any quantity in positional notation, i.e. the quantity which, when added to the first quantity, gives the least quantity containing one more place. The baseminus-one complement of any quantity in positional notation; i.e., the quantity which when 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)

GS acids

- . nucleic acids
- . . deoxyribonucleic acid . . complementary DNA
- biopolymers
- . nucleic acids
- . . deoxyribonucleic acid
- ... complementary DNA
- organic compounds
- . nucleic acids
- . . deoxyribonucleic acid
- ... complementary DNA

complementary metal oxide semiconductors

CMOS

#### complements (mathematics)

RT angles (geometry)

∞ complement

∞ logic

#### completeness

achievement

computer program integrity integrity

#### complex compounds

Chemical compounds in which part of the molecular bonding is of the coordinate type.

RT ∞ chemical compounds molecular structure transition metals

#### complex numbers

geometry integers numbers real numbers

### complex systems

parameter identification reliability engineering system identification ∞ systems

systems analysis

#### complex variables

GS analysis (mathematics)

- complex variables
- . . Airy function
- . . analytic functions
- . entire functions
- . . Bessel functions
- . . . Hankel functions
- Cauchy integral formula . . conformal mapping
- conjugates
- . . . conjugate points
- exponential functions
- ... logarithms
- gamma function
- harmonic functions hyperbolic functions
- hypergeometric functions
- Laguerre functions Legendre functions
- Liouville theorem
- Mathieu function
- . . meromorphic functions

. . . elliptic functions

- . . . rational functions
- . . nonholonomic equations
- . . orthogonal functions
- . Walsh function
- . . Schwarz-Christoffel transformation
- . . singularity (mathematics)
- . . . naked singularities . . spherical harmonics

aperiodic functions

complexity

dependent variables

Euler-Cauchy equations functional analysis

Joukowski transformation

maximum principle

real variables

Schauder fixpoint theorem

stability derivatives
Theodorsen transformation

uniqueness theorem

∞ variable

#### complexity

UF complication

complexity GS

task complexity

complex variables

feedback

∞ performance statistical distributions

compliance (elasticity)

USE modulus of elasticity

complication

USE complexity

## component reliability

GS

reliability
. component reliability

aircraft reliability

circuit reliability

cumulative damage

process control (industry)

quality control

retirement for cause

spacecraft reliability structural reliability

systems health monitoring

## ∞ components

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

An article which is a self-contained element of a complete operating unit and per-

forms a function necessary to the operation of that unit. Used for parts.

parts RT accessories

antenna components

assemblies

computer components

content engine parts

fractions ingredients

missile components

modules redundant components

segments

spacecraft components

spare parts structural members subassemblies

composite functions analysis (mathematics)

. real variables

composite functions functions (mathematics)

composite functions

#### composite materials

DEF Structural materials of metals, ceramics, or plastics with built-in strengthening agents which may be in the form of filiments, foils, powders, or flakes of a different compatible material. Used for composites and pyrographal-

UF composites

#### pyrographalloy

## composite materials

. Boral

- . boron reinforced materials
- . . aluminum boron composites
- . . boron-epoxy composites
- . carbon-carbon composites
- . ceramic matrix composites
- . . carbon-silicon carbide composites
- . composite propellants
- . fiber composites
- . . aramid fiber composites
- . . braided composites
- . . carbon fiber reinforced plastics
- . carbon-phenolic composites
- . . glass fiber reinforced plastics
- . woven composites . functionally gradient materials
- . glassy carbon
- . hybrid composites
- . metal matrix composites
  . . aluminum boron composites
- . aluminum graphite composites . Borsic (tradename)
- eutectic composites
   particulate reinforced composites
- . plywood . polymer matrix composites
- . . epoxy matrix composites
- boron-epoxy composites graphite-epoxy composites
- . . graphite-polyimide composites
- . . reinforced plastics
- ... carbon fiber reinforced plastics
- .... carbon-phenolic composites glass fiber reinforced plastics
- . . . micarta
- . resin matrix composites
- ... boron-epoxy composites
- . . carbon-phenolic composites
- . . graphite-epoxy composites
- . superhybrid materials
- . . graphite-epoxy composites nanocomposites
- . three dimensional composites

whisker composites

aircraft construction materials airframe materials aramid fibers

bimetals boron fibers

carbon fibers chemical vapor infiltration

cladding

coatings ∞ construction materials

E glass fiber orientation fiber pullout

fiber pushout fiber volume fraction fiber-matrix interfaces fibers

insulation interlaminar stress

laminates lay-up

low density research ∞ materials

 matrices matrix materials

metals micromechanics mixtures modular ratios

monotectic alloys multilayer insulation ply orientation

powder metallurgy preforms prepregs

reinforcement (structures) reinforcing fibers reinforcing materials resin film infusion resin transfer molding

rigid structures ∞ rovings

185

### composite propellants

S glass ... atmospheric moisture ∞ pumping sandwich structures gas composition sheet molding compounds . carbon dioxide concentration compressed gas smart materials isotope ratios DEF Any gaseous materials or mixtures . lunar composition having a container pressure exceeding 40 psi at solid suspensions . meteoritic composition 70 degrees F, or 104 psi at 130 degrees F. spiral wrapping stacking sequence (composite . planetary composition Compressed gases are further defined as flammaterials) . plasma composition mable or nonflammable. thermosetting resins RT ∞ composition GS gases gradients . compressed gas composite propellants Henry law . high pressure oxygen DEF Solid rocket propellants consisting of a RT compressors lumping fuel and an oxidizer neither of which would burn mixtures gas pressure without the presence of the other. Raoult law pneumatic control GS composite materials solutions . composite propellants compressed video stoichiometry propellants USE video compression . solid propellants composting composite propellants compressibility GS disposal case bonded propellants DEF The property of a substance, as air, by . waste disposal virtue of which its density increases with indouble base propellants composting double base rocket propellants crease in pressure. management explosives GS mechanical properties . waste management fuel production . compressibility . . waste disposal bulk modulus plastic propellants ... composting compressible flow plastisols garbage polysulfides compressive strength metabolic wastes polyurethane resins density (mass/volume) shredding equations of state propellant additives solid wastes propellant binders Gruneisen constant waste treatment hydroelasticity solid rocket propellants waste utilization incompressibility composite structures metal powder compound A composite structures porosity GS halogen compounds . laminates powder (particles) . fluorine compounds . . Boral . . fluorides . plywood compressibility effects . compound A buffeting boron-epoxy composites . halides ceramic matrix composites compressible flow . . fluorides clamped structures ∞ effects . . compound A functionally gradient materials flutter RT ∞ chemical compounds glass fiber reinforced plastics heat transfer oscillating flow honeycomb cores compound helicopters honeycomb structures hybrid structures pressure effects GS V/STOL aircraft relaxation (physiology) . rotary wing aircraft secondary flow supersonic flow lay-up pultrusion ... compound helicopters resin film infusion transonic flow . . . S-67 helicopter sheet molding compounds aeronautical engineering compressible boundary layer smart structures 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 ceramic fibers turbulent boundary layer short takeoff aircraft fiber composites vertical takeoff aircraft filament winding compressible flow In aerodynamics, flow at speeds suffiisotensoid structures compounding spiral wrapping ciently high that density changes in the fluid milling (mixing) ∞ wrap cannot be neglected.
GS fluid flow GS mixing compounding composites . compressible flow . . Ringleb flow RT colloiding UŚE composite materials dissolving . transonic flow grinding (comminution) ∞ composition RT aerodynamics homogenizing (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) air flow ∞ milling Cartan space composition (property) compressibility ∞ compounds compressibility effects content (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN Crocco method formulations gas flow ingredients RT ∞ chemical compounds Hugoniot equation of state stoichiometry potting compounds hypersonic flow composition (property) incompressible flow GS composition (property) compressed air magnetohydrodynamic flow . atmospheric composition GS gases Newton pressure law atmospheric moisture . gas mixtures stagnation flow . . ionospheric composition stagnation pressure . . aiı . body composition (biology) .. compressed air stagnation temperature chemical composition subsonic flow mixtures . . carbon dioxide concentration . solutions supersonic flow . . stellar composition . . gas mixtures . . . air concentration (composition) compressible fluids . . atom concentration ... compressed air RT aerodynamic heating carbon dioxide concentration compressors Crocco method . . fiber volume fraction drills fluid power . . low concentrations ∞ fluids

energy storage

man operated propulsion systems

oxygen supply equipment

pneumatic equipment

hydroelasticity

incompressible fluids

ideal fluids

. . mascons

. . meteoroid concentration

. . moisture content

Maxwell fluids method of characteristics P waves superfluidity

#### compressing

recompression squeezing GS compressing

plasma compression

speech baseband compression

adiabatic conditions

axial compression loads

blowing compressors concentrating densification

internal compression inlets magnetic compression mechanical properties

metal powder piston theory

∞ pressing pressure

pressure reduction pulse compression

∞ pumping rarefaction squeeze casting superchargers

#### compression loads

loads (forces) GS

#### compression loads

. . axial compression loads

. . impact loads

aerodynamic loads axial loads RT

buckling

compressive strength contact loads

dynamic loads edge loading kink bands kinking

mechanical properties

shock loads static loads

structural design criteria

thrust loads

#### compression ratio

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

ratios

compression ratio

efficiency fuel-air ratio

compression testers

USE compression tests

## compression tests

compression testers meteorite compression tests

RT creep tests destructive tests hardness tests

impact tests load tests

∞ materials tests static tests

∞ tests

## compression waves

DEF 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

P waves RT wave rotors

#### compressive strength

DEF The maximum load sustained by a

standard specimen of a material when subjected to a crushing force.

mechanical properties

compressive strength

RT 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.

GS 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

. rotors

#### . compressor rotors

centrifugal compressors compressors

∞ fans impellers

rotor blades (turbomachinery)

turbine wheels turbocompressors

#### compressors

RT

(EXCLUDES DATA COMPRESSORS)

Machines for compressing air or other SN DEF 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.

scattering

## Compton effect

coherent scattering ∞ effects

inelastic scattering nuclear reactions

photoelectricity

Sunyaev-Zeldovich effect

Compton Gamma Ray Observatory USE Gamma Ray Observatory

#### compulsators

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

∞ formulas

ill-conditioned problems

(mathematics) interpolation linear prediction multiplication subtraction

sums systolic arrays

## computational aeroacoustics

(added November 2008)
DEF Computational methods used for the numerical simulation of acoustic fields generated by and interacting with fluid flows.

GS acoustics

. aeroacoustics

## . . computational aeroacoustics

analysis (mathematics)

#### . numerical analysis . computational aeroacoustics

aerodynamic noise boundary conditions computational fluid dynamics

Ffowcs Williams-Hawkings equation finite difference theory

noise prediction (aircraft) sound waves wave propagation

computational aerodynamics

(added April 1997)

computational fluid dynamics

## computational astrophysics

GS 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 experimentally.

GS analysis (mathematics)

. numerical analysis

. computational chemistry

RT ∞ chemistry

computer techniques computerized simulation configuration interaction physical chemistry self consistent fields

∞ tests

#### computational electromagnetics

(added March 1995)

analysis (mathematics)

. numerical analysis

#### computational electromagnetics

computation

computational fluid dynamics

electromagnetism

finite difference time domain method

meshfree methods

parallel processing (computers) perfectly matched layers

radar cross sections

#### computational fluid dynamics

The field of study concerned with the application of high-speed digital computers to solve the complete nonlinear partial differential equations governing viscous fluid flows.

computational aerodynamics

analysis (mathematics)

. numerical analysis

### . . computational fluid dynamics

mechanics (physics)

. fluid mechanics

. . fluid dynamics

## . . computational fluid dynamics

Baldwin-Lomax turbulence model BGK model

Burnett equations

computation

computational aeroacoustics

computational electromagnetics computational mechanics

convection-diffusion equation

direct numerical simulation

dynamics 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

meshfree methods

multiblock grids

multigrid methods

Navier-Stokes equation

numerical flow visualization

panel method (fluid dynamics) relaxation method (mathematics)

Reynolds averaging

space-time CE/SE method

spectral methods

structured grids (mathematics)

turbulence models

TVD schemes

unstructured grids (mathematics) upwind schemes (mathematics)

vortex in cell technique

vortex lattice method

### computational geometry

(added August 1988)

computation

computational geometry

geometry

computational geometry

computer aided design Voronoi diagrams

#### computational grids

grids (mathematics) mesh (mathematics) GS coordinates

### . computational grids

. . structured grids (mathematics)

. multiblock grids

. . unstructured grids (mathematics)

grid generation (mathematics) grid refinement (mathematics)

mathematical models

multigrid methods

numerical analysis perfectly matched layers

problem solving

three dimensional models

computational grids (computer networks)

(added December 2003)

USE grid computing (computer networks)

#### computational mechanics

(added June 2008)

DEF The discipline concerned with the development and application of numerical and scientific computing methods to study phenomena governed by the principles of mechanics.

analysis (mathematics)

. numerical analysis

. . approximation

### . computational mechanics

mechanics (physics)

computational mechanics boundary element method

computational fluid dynamics

computerized simulation

continuum mechanics finite element method

fracture mechanics mathematical models

meshfree methods solid mechanics

structural analysis

computer aided design

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

UF CAD (design)

computer aided engineering
computerized design

GS. computer techniques

computer techniques
. computer aided design GS

. IPAD aircraft design RT

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) GS computer techniques

computer aided manufacturing

manufacturing
. computer aided manufacturing computer graphics

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

computerized simulation

rapid prototyping

robotics

computer aided mapping

group technology (manufacturing)

computer aided mapping

mapping

. computer aided mapping

## computer aided tomography

CAT scanner

computer techniques

computer aided tomography

computer aided tomography

computer graphics

computerized simulation

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

UF

GS computer techniques

computer assisted instruction

. computer assisted instruction language programming

computer bulletin boards USE electronic bulletin boards

computer codes

Machine readable tapes.

. computer storage devices

... computer compatible tapes magnetic tapes

. computer compatible tapes computers

digital computers ∞ tapes

## computer components

GS computer components

. . arithmetic and logic units

. RISC processors . chips (memory devices)

. computer storage devices
. bubble memory devices

computer graphics computerized simulation

maps robotics

imagery . radiography

. . tomography

image processing

### computer animation

GS arts

graphic arts . . animation

. . computer animation computer graphics

. computer animation computer techniques computer animation

motion pictures

computer architecture USE architecture (computers)

CAI

education . programmed instruction

symbolic programming

USE computer programs

computer compatible tapes

computer components

data processing equipment

. adding circuits

. central processing units

. . 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)

counters

decimal to binary converters

digital electronics

firmware

logical elements remote consoles

#### computer conferencing

(added September 1993)

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

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

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.

ÜF interactive graphics

#### GS computer graphics

. computer animation

computer aided design

computer aided manufacturing

computer aided mapping computer aided tomography

computers

data processing terminals

display devices graphical user interface

IBM personal computers

Macintosh personal computers

multimedia plotters

raster scanning remote consoles

scene generation scientific visualization

tomography

windows (computer programs)

#### computer information security

DEF Protective measures to prevent destruction, larceny, and/or unauthorized use of information in computerized files. Used for computer security.

GS security

. computer security

. computer information security

access control computer viruses cryptography

data processing

disk operating system (DOS)

electronic commerce

firewalls (computers)

information resources management operating systems (computers)

privacy

quantum cryptography

selective dissemination of information

steganography terrorism

computer methods

USE computer programs

### computer networks

DEF The interconnection of two or more computers for the mutual or individual processing of data to and from a multitude of terminals or stations by utilizing appropriate switching techniques, transmission systems, or miniprocessors.

GS networks

#### . computer networks

- . . internets
- . . . ARPA computer network . . . World Wide Web . . client server systems

- . . local area networks
- wide area networks

Aloha system carrier sense multiple access

computer security

distributed interactive simulation

distributed processing

electronic mail

Ethernet firewalls (computers)

grid computing (computer networks) interprocessor communication

intrusion detection (computers)

network control protocol (computers) service oriented architecture

### computer program integrity

VSAT (network)

The completeness of a program to execute its intended function.

integrity

. computer program integrity reliability

. software reliability

. computer program integrity

compilers completeness computer viruses computers digital computers errors programs

computer program reliability
USE software reliability

redundancy

security

## computer programming

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

UF Legendre code

## computer programming . assembler routines GS

- language programming logic programming . microprogramming

- . multiprogramming
- object-oriented programming
- on-line programming
- parallel programming
- . structured programming
- symbolic programming
- Ada (programming language)

addressing ALGOL

algorithms APL (programming language)
Assembly language
autocoders

BASIC (programming language) batch processing

BCH codes block diagrams

C (programming language)

coding
COMPASS (programming language)

computer viruses context free languages data structures digital techniques expert systems

file maintenance (computers)

firmware flow charts formalism format

Forth (programming language)

FORTRAN HAL/S (language) heuristic methods

kinoform

linear programming
LISP (programming language)

logic design

machine-independent programs MAP (programming language)

MIMD (computers)

natural language (computers) numerical analysis

open source licensing (computers) Pascal (programming language)

PL/1

program verification (computers)

programmed instruction programmers

∞ programming

programming programming programming environments programming languages Prolog (programming language) real time operation response time (computers) reverse engineering RISC processors run time (computers) run time (computers) sequential control SIMD (computers)

software engineering software reliability software reuse systems analysis theorem proving

time sharing UNIX (operating system)

# computer programs

computer codes computer methods software (computers)

computer programs

. applications programs (computers) ... NASTRAN

spreadsheets

. . web services . compilers

. computer systems programs . . assembler routines

. . input/output routines

. . operating systems (computers)
. . . disk operating system (DOS)

... UNIX (operating system)
... subroutine libraries (computers)

editing routines (computers)
 machine-independent programs

. merging routines
. multiple output programs

	. object programs		hole burning		data processing equipment
	. software development tools		magnetic storage		digital simulation
	. source programs		memory (computers)		hardware description languages
	. subroutines		microprocessors		mathematical models
RT	algorithms		optical memory (data storage)		operations research
	Assembly language		parametrons		simulators
	batch processing		peripheral equipment (computers)	c	∞ systems
	block diagrams		punched cards		systems analysis
	coding		punched tapes		tau taabuisusa
	computer viruses		random access		ter techniques
	computers		shift registers	GS	•
	data conversion routines	c	storage		. computer aided design IPAD
	data flow analysis		thin films		
	data processing	compu	ter systems design		. computer aided manufacturing
	data transfer (computers) digital computers	GS	systems design		. computer aided mapping . computer aided tomography
	error detection codes	ao	. computer systems design		. computer animation
	fixed point arithmetic	RT	client server systems		. computer assisted instruction
	•		computer security	RT	adaptive optics
	floating point arithmetic Goddard Trajectory Determination		concurrent processing	111	ARPA computer network
	System	c	design		backpropagation (artificial intelligence)
	IBM personal computers		disk operating system (DOS)		belief networks
	instruction sets (computers)		distributed processing		computational chemistry
	intellectual property		firewalls (computers)		computers
	laser guidance		interprocessor communication		decision support systems
	machine translation		man machine systems		flight management systems
	Macintosh personal computers		operating systems (computers)		knowledge based systems
	modularity		peripheral equipment (computers)		management information systems
	NASA Interactive Planning System		programmable logic devices		management methods
	numerical control		read-only memory devices		management systems
	on-line systems		relational data bases		microprocessors
	programmed instruction		service oriented architecture		NASTRAN
	programming environments		software development tools		numerical differentiation
	programs		software engineering		on-line systems
	report generators	c	∘ systems		parsing algorithms
~	routines		virtual memory systems		personal computers
	software engineering		• •		sorting algorithms
	software reliability	compu	ter systems performance		spreadsheets
	software reuse	DEF	The efficiency and reliability that char-		word processing
	structured programming	acterize	the real operation of the system.		
00	translators	RT	consistency	compu	ter viruses
	user manuals (computer programs)		data sampling	(add	led March 1989)
			efficiency	RT	computer information security
comput	er security		evaluation		computer program integrity
	ed February 2003)		operator performance		computer programming
	Measures and controls taken to pre-		output		computer programs
	authorized access, misuse, or destruc-	c	performance		computer security
	computer systems and networks, soft-		performance tests		computer systems programs
	the information stored in computer files.		quality		intrusion detection (computers)
GS	security		reliability		software engineering
	computer security		response time (computers)		
	computer information security		RISC processors		ter vision
	firewalls (computers)		software reliability	DEF	Capability of computers to analyze and
БТ	intrusion detection (computers)	c	∘ systems	act on v	visual input.
RT	access control	compu	ter systems programs	RT	machine vision
	computer networks	•			artificial intelligence
	computer systems design	GS	computer programs . computer systems programs	c	∞ automation edge detection
	computer viruses internets		assembler routines		Gabor filters
	protocol (computers)		. input/output routines		optical flow (image analysis)
	protocor (computers)		operating systems (computers)		pattern recognition
compute	er simulation		disk operating system (DOS)		position sensing
	computerized simulation		UNIX (operating system)		robot sensors
002			subroutine libraries (computers)		robotics
comput	er storage devices	RT	algorithms		robots
UF	machine storage		application programming interface		
GS	computer components		Assembly language	comput	terized control
	computer storage devices		autocoders	UŚE	numerical control
	bubble memory devices		compilers		
	buffer storage		computer viruses	comput	terized design
	computer compatible tapes		computers	USE	computer aided design
	cryogenic computer storage		data flow analysis		
	delay lines (computer storage)		data processing		terized simulation
	magnetic disks		digital computers		Computer-calculated representation of
	magnetic drums		editing routines (computers)		ess, device, or concept in mathematical
	optical disks		error detection codes		Ised for ARIP (impact prediction), auto-
	random access memory		report generators		ocket impact predictors, computer simu-
	core storage	c	o routines		and IP (impact prediction).
	read-only memory devices		software engineering	UF	ARIP (impact prediction)
	CD-ROM	c	∘ systems		automatic rocket impact predictors
	registers (computers)		systems analysis		computer simulation
	accumulators (computers)				IP (impact prediction)
RT	acoustic delay lines		ter systems simulation	GS	simulation
	associative memory		Forecasting of computer requirements		computerized simulation
	cards		se of predictive modeling and estimating		analog simulation
	central processing units		er workloads.		digital simulation
~	channels	GS	simulation	5.7	distributed interactive simulation
	cryosar		. systems simulation	RT	algorithms
~	equipment	57	computer systems simulation		altitude simulation
	flip-flops	RT	analog simulation		computational astrophysics

computational chemistry ... EAI 680 computer . . . airborne/spaceborne computers computational mechanics EAI 8400 computer . . hybrid computers computer aided design . . . EAI 8900 computer . . hypercube multiprocessors EMR 6050 computer computer aided manufacturing . . IBM computers computer aided mapping . . . IBM 360 computer Ferranti Mercury computer computer animation ... GE computers ... IBM 370 computer computers . . . . GE 625 computer IBM 650 computer control simulation . . . . GE 635 computer IBM 704 computer differential analyzers Hewlett-Packard computers IBM 709 computer flight simulation IBM 1130 computer Honeywell computers hardware-in-the-loop simulation DDP 516 computer IBM 1401 computer highly maneuverable aircraft Honeywell 600/6000 computer IBM 1410 computer hydraulic analogies . . . Honeywell ADEPT computer IBM 1620 computer landing simulation Honeywell DDP 116 computer IBM 2250 computer Lennard-Jones potential IBM 360 computer IBM 7030 computer mathematical models IBM 370 computer IBM 7040 computer ∞ missile simulators IBM 650 computer IBM 7044 computer molecular dynamics IBM 704 computer IBM 7070 computer motion simulators IBM 709 computer IBM 7074 computer multiscale models numerical flow visualization IBM 1130 computer IBM 7090 computer IBM 1401 computer IBM 7094 computer numerical weather forecasting ... IBM personal computers
... MINOS computer IBM 1410 computer operations research IBM 1620 computer scientific visualization IBM 2250 computer . . optical computers IBM 2250 computer
IBM 7030 computer
IBM 7040 computer
IBM 7044 computer
IBM 7070 computer
IBM 7074 computer
IBM 7090 computer
IBM 7094 computer
IBM 7094 computer
IBM 7094 computer simulated annealing . . Pegasus computers . . RCA computers systems simulation target simulators . . . RCA spectra 70 computer three dimensional models ... RCA-110 computers ... Siemens 2002 computer two dimensional models virtual reality . . site data processors . . supercomputers ICL computers Connection Machine computers data processing equipment Illiac computers Cray computers computers Illiac 3 computer . . transputers . . analog computers . Illiac 4 computer . . Univac computers EAI 680 computer microcomputers Univac 1100 series computers Honeywell 600/6000 computer . personal computers . Univac 1105 computer SIGMA 5 computer . IBM personal computers Univac 1106 computer Univac 1107 computer Univac 1100 series computers Macintosh personal computers Univac 1108 computer Univac 1105 computer minicomputers Univac 1106 computer Nova computers Univac 1110 computer Univac 1107 computer Modcomp II computer Univac 80 computer Univac 1108 computer Modcomp IV computer Univac 418 computer Univac 1110 computer parallel computers Univac 490 computer CDC computers massively parallel processors Univac 494 computer . CDC 160-A computer . . Connection Machine Univac 1230 computer CDC 1604 computer MIMD (computers) Univac Larc computer . CDC 3100 computer . SIMD (computers) . . quantum computers CDC 3200 computer PDP 15 computer applications programs (computers) CDC 3600 computer PDP computers arithmetic and logic units . . . . PDP 7 computer CDC 3800 computer artificial intelligence CDC 6000 series computers automata theory . . PDP 9 computer . . PDP 10 computer CDC 6400 computer ∞ automation CDC 6600 computer calculators CDC 6700 computer PDP 11 computer central processing units PDP 11/20 computer computation CDC 7000 series computers computer compatible tapes computer components computer design computer graphics computer program integrity PDP 11/40 computer
PDP 11/45 computer CDC 7600 computer CDC 8090 computer CDC 8090 computer
CDC Cyber 170 series computers
. CDC Cyber 175 computer
. CDC Cyber 74 computer
. CDC Cyber 174 computer
. CDC Cyber 203 computer
. CDC Cyber 205 computer
. CDC Star 100 computer
. CDC Star 100 computer ... PDP 11/45 computer ... PDP 11/50 computer ... PDP 11/70 computer ... PDP 12 computer ... Philco 2000 computer computer programs Raytheon computers RCA spectra 70 computer computer systems programs computer techniques SDS 900 series computers . SDS 930 computer SDS 9300 computer computerized simulation control data (computers) control units (computers) counting rate computers DDP computers DDP 516 computer SEL computers cybernetics digital computers sequential computers data converters CDC 160-A computer CDC 1604 computer SIGMA 5 computer data processing SIGMA computers digital to voice translators CDC 3100 computer . SIGMA 9 computer file maintenance (computers) CDC 3200 computer Solomon computers fixed point arithmetic CDC 3600 computer Univac 1100 series computers floating point arithmetic HAL/S (language) . CDC 3800 computer .... Univac 1105 computer CDC 6000 series computers Univac 1106 computer ∘ hardware CDC 6400 computer . . . . Univac 1107 computer information retrieval CDC 6600 computer Univac 1108 computer information theory CDC 6700 computer Univac 1110 computer Intel 8080 microprocessor CDC 7000 series computers Univac 80 computer logic circuits CDC 7600 computer Univac 418 computer machine-independent programs CDC 8090 computer Univac 490 computer machinery CDC Cyber 170 series computers Univac 494 computer memory (computers) multiprocessing (computers) printers (data processing) CDC Cyber 175 computer Univac 1230 computer CDC Cyber 74 computer CDC Cyber 174 computer Univac Larc computer read-only memory devices real time operation VAX computers CDC Cyber 203 computer
CDC Cyber 205 computer . . . VAX-11 series computers . . . . VAX-11/780 computer

. . embedded computer systems

... CDC Star 100 computer

run time (computers)

telecommunication

vocoders	filtration	∞ structures
Comsat program	isotopic enrichment	towers
GS programs	concentration (composition)	concretes
. Comsat program	UF volume fraction	DEF Homogeneous mixtures of portland ce-
RT communication satellites	GS composition (property)	ment, aggregates, and water and which may
Early Bird satellites	. concentration (composition)	contain admixtures.
Telstar project	atom concentration	RT admixtures
Telstar satellites	carbon dioxide concentration	aggregates
	fiber volume fraction	cements
ComStar C	low concentrations	∞ construction materials
DEF The third in a series of Comsat domes-	mascons	grout
tic communications satellites launched in a	meteoroid concentration	insulation
transfer orbit by NASA for COMSAT.	moisture content	masonry
GS artificial satellites	atmospheric moisture	mortars (material)
. communication satellites	RT ∞ concentration	pavements
Communications Technology	dilution	structural members
Satellite	particulate sampling	
ComStar C	purity	concurrent engineering
ComStar satellites	quality	(added September 1994)  DEF Use of multi-disciplinary teams to per-
DEF Series of domestic Comsat communi-	sampling	
cation satellites.	∞ saturation	form simultaneous design of products and pro-
GS artificial satellites	solubility	duction processes from conception through dis-
. communication satellites		posal. RT design to cost
ComStar satellites	concentrators	∞ engineering
RT satellite networks	GS concentrators	∞ engineening industrial management
TTT Satellite Hetworks	. spirals (concentrators)	life cycle costs
concatenated codes	RT accumulators	multidisciplinary research
DEF Two or more codes which are encoded	centrifuges	product development
and decoded in series.	classifiers	reliability engineering
RT binary codes	∞ classifying	systems engineering
∞ codes	columns (process engineering) concentrating	total quality management
coding	evaporators	value engineering
data transmission	filtration	value originoening
decoding	fluid filters	concurrent processing
error correcting codes	precipitators	GS data processing
redundancy encoding	radiative heat transfer	concurrent processing
Reed-Solomon codes	separators	RT architecture (computers)
signal encoding	size separation	computer systems design
trellis coding	sizing screens	MIMD (computers)
	solar collectors	multiprocessing (computers)
concavity	stills	parallel processing (computers)
RT contour sensors	thermal radiation	SIMD (computers)
contours	traps	
convexity	washers (cleaners)	condensates
flatness	, ,	GS condensates
shapes	concentric cylinders	Bose-Einstein condensates
∞ surface geometry	RT ∞ cylinders	. hydrometeors
concentrating	cylindrical shells	RT Aitken nuclei
RT accumulations		∞ condensation
adsorption	concentric spheres	condensers (liquefiers)
agglomeration	DEF Structures in which the space between	condensing contrails
beneficiation	the spheres is utilized for experiments involving	drop size
centrifuging	fluid flow, etc.	liquefied gases
classifiers	GS symmetrical bodies	plumes
coagulation	. bodies of revolution	vapors
coalescing	spheres concentric spheres	Tapo.0
compressing	•	
∞ concentration	RT concentricity	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS
concentrators	concentricity	RECOMMENDEDCONSULT THE TERMS
condensing	RT ∞ centers	LISTED BELOW)  DEF The physical process by which a vapor
crystallization	concentric spheres	becomes a liquid or solid; the opposite of evapo-
distillation	eccentricity	ration. Specifically, in meteorology, the transfor-
drying	,	mation from vapor to liquid.
enrichment	Concorde aircraft	RT condensates
evaporation	GS jet aircraft	condensation nuclei
extraction	. turbofan aircraft	condensing
filtration	Concorde aircraft	gas-metal interactions
flocculating	Sud Aviation aircraft	liquefaction
flotation	. Concorde aircraft	Mayer problem
percolation	supersonic aircraft	rectification
precipitation (chemistry)	. supersonic transports	
∞ separation separators	. Concorde aircraft	condensation nuclei
settling	transport aircraft	DEF Liquid or solid particles upon which
sorption	. Concorde aircraft	condensation of water begins in the atmo-
stress concentration	RT ∞ aircraft	sphere.
upgrading	annevate atmost	GS condensation nuclei
vaporizing	concrete structures	. Aitken nuclei
. opo	DEF Buildings, dams, stadiums, etc., con-	RT aerosols
∞ concentration	structed entirely of a mixture of aggregates,	cloud physics
SN (USE OF A MORE SPECIFIC TERM IS	water, and Portland cement.	clouds (meteorology)
RECOMMENDEDCONSULT THE TERMS	RT aggregates breakwaters	∞ condensation
LISTED BELOW)  DEF The quantity of a substance contained		condensing drops (liquids)
DEF The quantity of a substance contained in a unit quantity of sample.	construction	ice nuclei
n a unit quantity of sample.  RT concentrating	earthquake resistant structures foundations	nce nuclei meteorology
concentration (composition)	∞ materials	microparticles
crowding	rigid structures	nucleation

∞ nuclei UF conducting supersaturation attenuation rain conditioned reflexes conductive heat transfer condensation pumps GS reflexes convection conditioned reflexes electric conductors GS pumps conditioning (learning) electric power transmission . vacuum pumps ... condensation pumps reaction time heat transfer vacuum apparatus conditioned responses . vacuum pumps refraction USE conditioning (learning) condensation pumps sound propagation sound transmission ∞ conditioning condensation trails thermal conductors (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) beneficiation SN thermal diffusion USE contrails transmission condensed matter physics wave propagation Bose-Einstein condensates conditioning (learning) matter (physics) power conditioning conduction bands negative matter preconditioning DEF A range of states in the energy spec-∞ physics trum of a solid in which electrons can move ∞ solid state physics conditioning (learning) freely. conditioned responses GS energy bands GS learning conduction bands condenser radiators conditioning (learning) USE condensers (liquefiers) band structure of solids RT behavior heat radiators ∞ bands biofeedback Brillouin zones conditioned reflexes electron transitions (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) capacitors ∞ conditioning SN Franck-Condon principle habituation (learning) NDM semiconductor devices inhibition (psychology) polarons porous silicon condensers (liquefiers) conditioning (treating) quantum wells jet condensers USE treatment semiconductors (materials) photographic rectifiers trapping conditions condensers (liquefiers) GS conditions conduction electrons condenser radiators adiabatic conditions GS particles GS condensers (liquefiers) . boundary conditions . charged particles jet condensers . . perfectly matched layers . . energetic particles absorbers (equipment) chronic conditions . . . electrons air conditioning flight conditions . . . . conduction electrons air conditioning equipment Kutta-Joukowski condition . corpuscular radiation cold traps Lipschitz condition columns (process engineering) nonadiabatic conditions . . . electrons compressors nonequilibrium conditions runway conditions . . conduction electrons condensates . elementary particles ondensers in vitro methods and tests . . fermions condensing in vivo methods and tests ... leptons cooling fins . . . . electrons cooling systems Condor missile .... conduction electrons distillation equipment GS missiles RT free electrons drying apparatus . air to surface missiles quantum wells evaporators . . Condor missile valence exhaust systems film condensation conductance conductive heat transfer heat exchangers USE resistance UF heat conduction heat pumps transmission liquefied gases conducting . heat transmission refrigerating machinery conduction USF . . heat transfer separators . . . conductive heat transfer spacecraft radiators conducting fluids RT ∞ conduction vaporizers (EXCLUDES PLASMAS) convective heat transfer conductors laminar heat transfer electrolytes condensing thermal conductivity UF gas liquefaction thermal conductors magnetohydrodynamics GS condensing film condensation conducting media ∞ conductivity association reactions (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) USE conductors cloud physics concentrating conducting polymers condensates The ability to transmit, as electricity, (added January 1990) condensation heat, sound, etc. A unit measure of electrical conductors condensation nuclei conduction; the facility with which a substance . electric conductors condensers (liquefiers) conducts electricity, as represented by the cur-. conducting polymers cooling rent density per unit electrical-potential gradient dendrimers dehumidification in the direction of flow. electroactive polymers dew point atmospheric conductivity organic semiconductors distillation electrical properties polyacetylene electrical resistivity drop size polymeric films drops (liquids) fluid flow ∞ polymers evaporation impedance polypyrroles gas-liquid interactions ionospheric conductivity semiconductors (materials) gas-metal interactions magnetoresistivity nucleation mobility  $\infty$  conduction phase change materials Ohms law SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)

DEF The transfer of energy within and through a conductor by means of internal particle of molecular activity and without any net phase transformations photoconductivity refrigerating plasma conductivity superconducting power transmission ∞ saturation superconductivity ∞ separation

external motion. Used for conducting.

sublimation

supercooling

thermal conductivity

transconductance

transport properties volcanoes staggering void ratio torpedoes volcanology confinement conductivity meters conferences astronaut performance measuring instruments UF congresses RT conductivity meters meetings containment . . electrical conductivity meters proceedings isolation magnetic compression symposia Committee on Space Research conductors nuclear reactor control DEF Substances or entities which transmit consulting plasma control electricity, heat, or sound. Used for conducting conventions plasma equilibrium ∞ discussion sensory deprivation conducting media documentation confining GS conductors documents astronaut performance . bus conductors papers deprivation . electric conductors reports .. beam leads Starsite program isolation sensory deprivation . . conducting polymers teleconferencing . . electric wire video conferencing confirmation . electrolytes USE proving confidence . . anolytes correlation catholytes confluence . . ion exchange membrane errors USE convergence probability theory electrolytes psychological effects . . jumpers conformal mapping quality control . . molten salt electrolytes conformal transformations . . nonaqueous electrolytes reliability analysis (mathematics) solid electrolytes risk . complex variables statistical analysis . flat conductors conformal mapping . . beam leads functions (mathematics) confidence limits . photoconductors . conformal mapping DEF In statistics, the upper and lower ex-. superconductors (materials) coordinate transformations tremes of the confidence interval. . . high temperature superconductors **Euler-Cauchy equations** contingency BSCCO superconductors graphs (charts) estimates . YBCO superconductors invariant imbeddings forecasting ... heavy fermion superconductors isoparametric finite elements maximum likelihood estimates organic superconductors Jacobi integral ∞ measurement . thermal conductors Lighthill method null hypothesis antennas minimal surfaces precision conducting fluids Schwarz-Christoffel transformation predictions exploding wires Theodorsen transformation quality control metals range (extremes) nonferrous metals conformal transformations reliability organic semiconductors USE conformal mapping risk semiconductors (materials) sampling subreflectors confusion significance RT entrapment standard deviation cones tangling SN (LIMITED TO MATERIAL OBJECTS)
DEF Geometric configurations having a circular bottom and sides tapering off to an apex statistical analysis statistical tests congeners ∞ tests  $\overrightarrow{RT} \infty$  chemical compounds (as in nose cones). Used for conical flare and variance (statistics) classifications fusiform shapes.

UF conical flare isomers configuration interaction muscles DEF In physical chemistry, the interaction fusiform shapes tautomers between two different possible arrangements of GS cones the electrons in an atom or molecule. . circular cones congenital anomalies computational chemistry . conical bodies congenital conditions electron orbitals slender cones chromosome aberrations ∞ interactions . half cones chromosomes intermolecular forces . Mach cones genetics molecular interactions . nose cones heredity molecular structure . . ablative nose cones Rhesus factor ∞ structures . . rocket nose cones shatter cones congenital conditions configuration management RT aerodynamic configurations congenital anomalies UŠE DEF A discipline applying technical and adbodies of revolution ministrative direction and surveillance to: idenconical shells congestion tify and document the functional and physical circulation RT characteristics of a configuration item, control frustums ischemia changes to those characteristics, record and symmetrical bodies pneumonia report change processing and implementation respiratory diseases status, and verify conformance with specified cones (volcanoes) vasodilation requirements. cinder cones management GS GS geology Congo (Brazzaville) configuration management cones (volcanoes) UF Brazzaville RT ∞ configurations landforms French Equatorial Congo . cones (volcanoes) GS nations ∞ configurations basalt Congo (Brazzaville) (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) aerodynamic configurations calderas RT Africa craters effusives Congo (Kinshasa) geomorphology aircraft configurations USE Democratic Republic of Congo body-wing and tail configurations lava Mars volcanoes canard configurations congresses mountains configuration management conferences UŠE launch vehicle configurations orography paleomagnetism missile configurations congressional reports propulsion system configurations netrology proceedings

spacecraft configurations

UF

GS

documents

Rouse belts

	. congressional reports	RT	examination		finite element method
	reports		field of view	conium	ation
DT	. congressional reports		monitors	conjuga	conjugation
RT	Presidential reports		panoramic scanning radar scanning	do	. phase conjugation
congrue	nces		readers		. four-wave mixing
	number theory		reading	RT	conjugates
0.0	. congruences		scanners		
RT ∞	coherence		searching	∞ conjun	ction
	collocation		surveillance	SN	(USE OF A MORE SPECIFIC TERM IS
	dividing (mathematics)				RECOMMENDEDCONSULT THE TERMS LISTED BELOW)
	geometry	conical	shells	RT	Boolean algebra
	identities	GS	shells (structural forms)		occultation
	integers		. conical shells		orbits
	symmetry	RT	cones		probability theory
conical	hodies				set theory
	conoids	conics	a a matur	conjund	rtiva
	cones	GS	geometry	GS	anatomy
	. conical bodies		Euclidean geometry     analytic geometry	GG	. sense organs
	slender cones		conics		eye (anatomy)
	symmetrical bodies		ellipses		conjunctiva
	. bodies of revolution		hyperbolas		membranes
	conical bodies		parabolas		. conjunctiva
	slender cones	RT	cones	RT	conjunctivitis
	afterbodies		half cones		keratitis
	axisymmetric bodies		loci		vision
conical	cambor				ativitat a
	camber	conifers		conjund GS	diseases
ao	. conical camber	GS	plants (botany)	ds	. eye diseases
RT	wing camber		. trees (plants)		conjunctivitis
	gg	рт	conifers		. infectious diseases
conical f	lare	RT	deciduous trees forests		conjunctivitis
USE	cones		timber identification	RT	bacterial diseases
	_	00	trees		conjunctiva
conical			. 11000		
GS	fluid flow	coning	motion	Connec	
DT	. conical flow		ed June 1997)	GS	nations
	axisymmetric flow baffles	RT	dynamic stability		. United States
	diffusers		gyration	DT	Connecticut
~	multiphase flow	~	motion	RT	New Haven (CT)
	separated flow		motion stability	Connec	tion Machine
	three dimensional flow		nutation		ed September 1992)
	wall flow		precession	GS	data processing equipment
	wedge flow		rotation		. computers
			spin stabilization		digital computers
conical			tumbling motion yaw		parallel computers
GS	intake systems		yaw		massively parallel processors
DT	. conical inlets	coniuga	ate gradient method		Connection Machine
	air intakes conical nozzles		An interactive method for solving a		supercomputers
	funnels		of linear equations of dimension N which	DT	Connection Machine
	Turrileis		es in at most N steps if no rounding	RT	architecture (computers)
conical	nozzles		re encountered. Each iterate will bring		interprocessor communication multiprocessing (computers)
	annular nozzles		ser to the solution.		parallel processing (computers)
	conical inlets	GS	analysis (mathematics)		parallel processing (compaters)
	convergent nozzles		. numerical analysis	connect	tions
	convergent-divergent nozzles		. iteration		joints (junctions)
	divergent nozzles	БТ	conjugate gradient method		, ,
	exhaust diffusers	RT	algorithms		tive tissue
	exhaust nozzles		conjugates gradients	GS	tissues (biology)
	hypersonic nozzles		iterative solution		. connective tissue
	inlet nozzles		Rotalivo colullott		adipose tissues
	jet nozzles	coniuga	ate points		bone marrow cartilage
	nozzle geometry nozzle inserts		analysis (mathematics)	рт	bones
	nozzle walls		. complex variables	ΠI	collagens
	nozzles		conjugates		exoskeletons
	plug nozzles		conjugate points		joints (anatomy)
	rocket nozzles	RT	lines of force		ligaments
	skirts		magnetic fields		musculoskeletal system
	sonic nozzles				tendons
	spike nozzles		ited circuits		
	spray nozzles		Branches of an electrical network con-	connec	
	supersonic nozzles		so that a change in the electromotive	GS	connectors
	transonic nozzles		either branch does not result in a current		. electric connectors
	turbine exhaust nozzles		in the other. circuits		. umbilical connectors
	wind tunnel nozzles	as	. conjugated circuits	RT	. unions (connectors)
conical	scanning		. conjugatou onounts	n i	adapters cordage
	Scanning Scanning in which the direction of	conjuga	ates		cordage
	n radiation generates a cone whose	GS	analysis (mathematics)		disconnect devices
	ngle is of the order of the beam width.	30	. complex variables		fasteners
	anning may be either rotating of nutat-		conjugates		fittings
ing, acco	ording as the direction of polarization		conjugate points		flanges
rotates o	r remains unchanged.	RT	Cholesky factorization		flat conductors
GS	scanning		conjugate gradient method		joints (junctions)
	. conical scanning		conjugation		jumpers

 $\infty$  junctions quality Ares 1 launch vehicle linkages ratings Ares 5 cargo launch vehicle optical interconnects reliability Crew Exploration Vehicle sleeves tolerances (mechanics) manned space flight ∞ terminals space exploration vokes variability constellations connectors (electric) consoles DEF Originally conspicuous configurations USE electric connectors Arrays of controls and indicators for of stars; now regions of the celestial sphere the monitoring and control of a particular semarked by arbitrary boundary lines. quence of actions, as in the checkout of a GS constellations USE conical bodies rocket, a countdown action, or a launch proce-Andromeda Constellation . Aries constellation consciousness GS . Auriga constellation consoles GS perception . remote consoles Cassiopeia constellation sensory perception RT automatic typewriters Centaurus constellation . consciousness computer components Cepheus constellation attention control boards Corona Borealis constellation mental performance data processing terminals Cygnus constellation recognition display devices Lyra constellation sleep deprivation ∞ equipment Orion constellation flat panel displays Sagittarius constellation consecutive events head-up displays Scorpius constellation GS events man machine systems Scutum constellation consecutive events . Taurus constellation manual control intervals RT celestial sphere Petri nets consolidation planispheres probability theory RT ∞ combination stars scheduling densification zodiac sequencing liquid phase sintering sequential control overconsolidation Constellation-X time measurement stabilization (added February 2006) DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to conservation consonants (speech) conservation speech energy conservation vowels generate the observing power of one giant tele-RT agriculture words (language) scope deforestation UF Con-X observatory ∞ constant drought artificial satellites GS (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) energy policy . scientific satellites environment management . . astronomical satellites firebreaks RT coefficients ... Constellation-X forest management constants networks forests invariance . satellite networks habitats satellite constellations time constant land use . Constellation-X Newton second law constant speed propellers observatories nonconservative forces USE variable pitch propellers . astronomical observatories parity . . astronomical satellites potable water constant volume balloons ... Constellation-X regional planning USE superpressure balloons telescopes rural land use . spaceborne telescopes soil science constantan . Constellation-X soils GS alloys . x ray telescopes water management constantan Constellation-X water reclamation copper spaceborne astronomy nickel x ray astronomy conservation element and solution element thermocouples (added June 2002) constitution USE space-time CE/SE method constants atomic structure GS constants governments conservation equations Bohr magneton law (jurisprudence) Bernoulli theorem gravitational constant continuity equation Gruneisen constant constitutional diagrams ∞ equations Hubble constant USE phase diagrams nonconservative forces Plancks constant space-time CE/SE method solar constant constitutive equations vorticity transport hypothesis time constant RT electric fields . perceptual time constant ∞ equations conservation laws coefficients magnetic charge density GS magnetic fields laws ∞ constant conservation laws magnetic flux **CP** violation Constellation program momentum theory (added July 2007) constraints Newton Theory DEF A NASA space program to create hindrance limitations nonconservative forces spacecraft for human spaceflight, consisting prispace-time CE/SE method marily of the Ares I and Ares V launch vehicles, restraints the Orion crew capsule, the Earth Departure constraints consistency Stage and the Lunar Surface Access Module. . meteorological parameters These spacecraft will be capable of performing a . Brunt-Vaisala frequency DEF A property of a material determined by the complete flow force relation. variety of missions, from Space Station resupply blocking accuracy constrictions to lunar landings. computer systems performance programs dynamic programming . NASA programs effort ∘ holding . . NASA space programs linear programming errors ... Constellation program leveling nonlinear programming linearity . space programs operations research . . NASA space programs optimization ∞ measurement Constellation program penalty function

RT Altair Lunar Lander

range (extremes)

∞ performance

precision

	retaining		construction		reticles
	·		graphite-epoxy composites		
constric	tions		grout	contact	loads
UF	restrictions		insulation	DEF	Dynamic loading by contact between
RT ∞	barriers		lathes	two bodi	es.
	blocking		Masonite (trademark)	GS	loads (forces)
	chokes (restrictions)		masonry		. contact loads
	closures	∞	materials		impact loads
	constraints		materials selection		rolling contact loads
	contracts		panels	RT	compression loads
	impedance		plastics		dynamic pressure
	plugging		polymer matrix composites		random loads
00	resistance		protective coatings		shock loads
	retarders (devices)		reactor materials	∞	sliding contact
	seals (stoppers)		skin (structural member)		transient loads
	stopping		spacecraft construction materials		
			structural members		potentials
constric					The potential differences at the junc-
GS	anatomy	consulti	ng		wo dissimilar substances.
	. musculoskeletal system	RT	conferences		potential energy
	muscles		management planning		. electric potential
	constrictors		personnel		contact potentials
	ati a m		resources		electric contacts
constru					surface properties
SN UF	(EXCLUDES TYPES OF STRUCTURES) erection	consum	ables (spacecraft)		
	architecture	DEF	All supplies for spacecraft and		resistance
п		spacecre	ews that will be consumed during a		The resistance to current flow between
	assembling	mission.	•		hing bodies, consisting of constriction
	bridges (structures) buildings	GS	consumables (spacecraft)		e and film resistance.
	•		. storable propellants		electrical properties
	caissons	RT	consumables (spacecrew supplies)		. electrical impedance
	concrete structures		in situ resource utilization		electrical resistance
00	construction materials		propellant storage		contact resistance
	contractors		space logistics		impedance
	contracts		working fluids		. electrical impedance
00	design		3		electrical resistance
	excavation	consum	ables (spacecrew supplies)		contact resistance
	fabrication		consumables (spacecrew supplies)		electric contacts
	highways		. space rations		nonohmic effect
	inspection	RT	clothing		resistance
	installing		consumables (spacecraft)		surface properties
	layouts		dehydrated food		
	maintenance	000	food	contacto	
	masonry		food production (in space)		(EXCLUDES ELECTRIC SWITCHES)
	quality control		hygiene		carburetors
	reconstruction		potable water		chemical reactors
	rigging		provisioning		columns (process engineering)
	shipyards		sanitation		electric switches
	space manufacturing		space flight feeding		mixers
	Starsite program		space logistics		sprayers
	steel structures		survival equipment	contacto	(alactria)
	stress analysis				(electric) electric contacts
	structural dasign	consum	ers	USL	electric contacts
	structural design	RT	consumption	contacts	s (geology)
	structural engineering structural members		market research		geology
			marketing	as	. contacts (geology)
	surveys		product development	RT	formations
	tunneling (excavation) welding		p		metamorphism (geology)
	weiding	consum	ntion		mineral deposits
construc	tion in space		consumption		rock intrusions
	orbital assembly	ao	. energy consumption		rocks
002	orbital accombly		. fuel consumption		Tooks
constru	ction industry		. oxygen consumption	containe	erless melts
	industries		. propellant consumption		melts (crystal growth)
	. construction industry		. water consumption		. containerless melts
RT	bridges (structures)	RT	commerce	RT	crystal growth
	buildings	• • • • • • • • • • • • • • • • • • • •	consumers		crystallization
	contractors		demand (economics)		crystals
	industrial areas		depletion		directional solidification (crystals)
	industrial plants		exhausting		liquid bridges
	towers		exhaustion		low gravity manufacturing
	trusses		supplying		manufacturing
			utilization		melting
constru	ction materials				orbital workshops
SN	(USE OF A MORE SPECIFIC TERM IS	contact	dermatitis		space processing
	RECOMMENDEDCONSULT THE TERMS	GS	diseases		weightlessness
UF	LISTED BELOW) building materials	50	. infectious diseases		
٥,	structural materials		dermatitis	∞ containe	ers
RT	aggregates		contact dermatitis	SN	(USE OF A MORE SPECIFIC TERM IS
	aircraft construction materials	RT	allergic diseases		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)
	aircraft survivability		dermatology	DEF	A non-specific term for receptacles ca-
	airframe materials		epidermis		closure. Used for receptacles (contain-
	architecture		itching	ers).	c.cca.c. cood for receptacies (contain-
	bitumens		skin (anatomy)	,	receptacles (containers)
	boards (paper)		- \ <del></del>		ampoules
	bricks	contact	lenses		autoclaves
	cements		lenses		bags
	composite materials	40	. contact lenses		barrels (containers)
	concretes	RT	eyepieces		baskets
		111	-,		

	biopaks	pollution	RT continuity
	bottles	purity	functions (mathematics)
	boxes (containers)	radioactive wastes	isoperimetric problem
	bundles	water pollution	normal density functions
	cans		Poisson density functions
000	capsules	content	probability density functions
	cartridges	GS content	regularity
	cases (containers)	. bone mineral content	statistical analysis
	crucibles	RT ∞ components	symmetry
	disposal	∞ composition	topology
	drums (containers)	ingredients	
	enclosures	ű	
	fuel tanks	content-addressable memory	continuity equation
	glassware	(added December 1999)	RT conservation equations
	hoppers	USE associative memory	continuum mechanics
	housings	·	Crocco-Lee theory
	materials handling	context	∞ equations
		DEF The composition, structure, or manner	equations of motion
	micromodules	in which something is put together. Also refers to	equations of state
	packages	the situation or environment of an event.	fluid dynamics
	packaging	RT natural language (computers)	nonconservative forces
	preserving	pattern recognition	steady flow
	pressure vessels	pattern recognition	
	protectors	context free languages	
	reels	GS languages	continuous flow electrophoresis
	spools	. programming languages	USE electrophoresis
	sprayers		
	tanks (containers)	context free languages	
	transporter	RT computer programming	continuous noise
	trays	symbolic programming	RT ∞ noise
	wing tanks		noise propagation
	wing tariks	continental drift	sound generators
contain	ment	RT continents	
RT	asteroid capture	Earth crust	continuous radiation
111	•	Earth planetary structure	
	blocking	geomagnetism	UF continuous waves
	burst tests	geophysics	GS continuous radiation
	confinement	paleomagnetism	<ul> <li>modulated continuous radiation</li> </ul>
	retaining	paromagnotion	RT absorption spectra
	sealing	continental margins	background radiation
	stopping	USE continental shelves	coherent radiation
		COL COMMONIA CHOICE	corpuscular radiation
contam	nants	continental shelves	elastic waves
UF	noxious materials	DEF The ocean floor that is between the	electromagnetic radiation
	pollutants		emission spectra
GS	contaminants	shoreline and the abyssal ocean floor, including	pulsed radiation
	. radioactive contaminants	various provinces; the continental shelf; conti-	∞ radiation
	. trace contaminants	nental borderland; continental slope; and the	
RT	biofilms	continental rise. Used for continental margins.	∞ rays
111	biomass burning	UF continental margins	
		RT geology	
		33,	continuous spectra
	chlorofluorocarbons	ocean bottom	continuous spectra  DEF Spectra in which wavelengths wave
	chlorofluoromethane	0 07	DEF Spectra in which wavelengths, wave
	chlorofluoromethane contamination	ocean bottom	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by
	chlorofluoromethane contamination decontamination	ocean bottom seamounts	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion
	chlorofluoromethane contamination decontamination diluents	ocean bottom seamounts	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of
	chlorofluoromethane contamination decontamination diluents dirt	ocean bottom seamounts ∞ shelves	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra
	chlorofluoromethane contamination decontamination diluents	ocean bottom seamounts ∞ shelves  continents	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a
	chlorofluoromethane contamination decontamination diluents dirt	ocean bottom seamounts ∞ shelves  continents GS continents . Africa	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength
	chlorofluoromethane contamination decontamination diluents dirt dust	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of
	chlorofluoromethane contamination decontamination diluents dirt dust effluents	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia . Australia	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that
	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia . Australia . Europe	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum
	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia . Australia . Europe Central Europe	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.
	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia . Australia . Europe . Central Europe . North America	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum
	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia . Australia . Europe . Central Europe . North America . South America	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  continuous spectra
	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia . Australia . Europe . Central Europe . North America . South America RT Antarctic regions	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra
~	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia . Australia . Europe . Central Europe . North America . South America RT Antarctic regions Central Europe	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  continuous spectra
œ	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia . Australia . Europe Central Europe . North America . South America RT Antarctic regions Central Europe continental drift	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  continuous spectra  RT astronomical spectroscopy
œ	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities impurities materials nonpoint sources	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia . Australia . Europe Central Europe . North America . South America RT Antarctic regions Central Europe continental drift cratons	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  continuous spectra  RT astronomical spectroscopy solar spectral emission
œ	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia . Australia . Europe Central Europe . North America . South America RT Antarctic regions Central Europe continental drift cratons geography	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  . continuous spectra  RT astronomical spectroscopy solar spectra
œ	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates pollution	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia . Australia . Europe Central Europe . North America . South America RT Antarctic regions Central Europe continental drift cratons geography mountains	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  Continuous spectra  RT astronomical spectroscopy solar spectral emission stellar spectra
œ	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates pollution purity	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia . Australia . Europe Central Europe . North America . South America RT Antarctic regions Central Europe continental drift cratons geography	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  continuous spectra  RT astronomical spectroscopy solar spectral emission
œ	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates pollution purity quality	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia . Australia . Europe . Central Europe . North America . South America RT Antarctic regions Central Europe continental drift cratons geography mountains transcontinental systems	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  Continuous spectra  RT astronomical spectroscopy solar spectral emission stellar spectra
œ	chlorofluoromethane contamination decontamination diluents dir dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates pollution purity quality soil pollution	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia . Australia . Europe Central Europe . North America . South America RT Antarctic regions Central Europe continental drift cratons geography mountains	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  . continuous spectra  RT astronomical spectroscopy solar spectral emission stellar spectra  continuous wave lasers
œ	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates pollution purity quality soil pollution volatile organic compounds	ocean bottom seamounts ∞ shelves  continents GS continents	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  continuous spectra  RT astronomical spectroscopy solar spectral emission stellar spectra  continuous wave lasers  GS stimulated emission devices
œ	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates pollution purity quality soil pollution volatile organic compounds wastes	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia . Australia . Europe Central Europe . North America . South America RT Antarctic regions Central Europe continental drift cratons geography mountains transcontinental systems  contingency	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  . continuous spectra  RT astronomical spectroscopy solar spectra spectral emission stellar spectra  continuous wave lasers  GS stimulated emission devices . lasers . continuous wave lasers
α	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates pollution purity quality soil pollution volatile organic compounds	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia . Australia . Europe Central Europe . North America . South America RT Antarctic regions Central Europe continental drift cratons geography mountains transcontinental systems  contingency RT confidence limits	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  continuous spectra  RT astronomical spectroscopy solar spectral emission stellar spectra  continuous wave lasers  GS stimulated emission devices . lasers
	chlorofluoromethane contamination decontamination diluents dir dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates pollution purity quality soil pollution volatile organic compounds wastes water treatment	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia . Australia . Europe Central Europe . North America . South America RT Antarctic regions Central Europe continental drift cratons geography mountains transcontinental systems  contingency RT confidence limits correlation estimates	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  continuous spectra  RT astronomical spectroscopy solar spectra a spectral emission stellar spectra  continuous wave lasers  GS stimulated emission devices . lasers . continuous wave lasers  RT argon lasers carbon dioxide lasers
contam	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates pollution purity quality soil pollution volatile organic compounds wastes water treatment	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia . Australia . Europe . Central Europe . North America . South America RT Antarctic regions Central Europe continental drift cratons geography mountains transcontinental systems  contingency RT confidence limits correlation estimates expectation	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  continuous spectra  RT astronomical spectroscopy solar spectra  spectral emission stellar spectra  continuous wave lasers  GS stimulated emission devices lasers . continuous wave lasers  RT argon lasers carbon dioxide lasers carbon monoxide lasers
contam	chlorofluoromethane contamination decontamination diluents dir dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates pollution purity quality soil pollution volatile organic compounds wastes water treatment	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia . Australia . Europe . Central Europe . North America . South America . South America RT Antarctic regions Central Europe continental drift cratons geography mountains transcontinental systems  contingency RT confidence limits correlation estimates expectation materials handling	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  continuous spectra  RT astronomical spectroscopy solar spectral emission stellar spectra  continuous wave lasers  GS stimulated emission devices  lasers  continuous wave lasers  RT argon lasers  carbon dioxide lasers  carbon monoxide lasers  chemical oxygen-iodine lasers
contam	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates pollution purity quality soil pollution volatile organic compounds wastes water treatment	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia . Australia . Europe Central Europe . North America . South America RT Antarctic regions Central Europe continental drift cratons geography mountains transcontinental systems  contingency RT confidence limits correlation estimates expectation materials handling predictions	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  continuous spectra  RT astronomical spectroscopy solar spectra spectral emission stellar spectra  continuous wave lasers  GS stimulated emission devices lasers continuous wave lasers  RT argon lasers carbon dioxide lasers carbon monoxide lasers chemical oxygen-iodine lasers laser stability
contam	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates pollution purity quality soil pollution volatile organic compounds wastes water treatment ination contamination	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia . Australia . Europe Central Europe . North America . South America RT Antarctic regions Central Europe continental drift cratons geography mountains transcontinental systems  contingency RT confidence limits correlation estimates expectation materials handling predictions reserves	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  continuous spectra  RT astronomical spectroscopy solar spectral emission stellar spectra  continuous wave lasers  GS stimulated emission devices  lasers  continuous wave lasers  RT argon lasers  carbon dioxide lasers  carbon monoxide lasers  chemical oxygen-iodine lasers
contam	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates pollution purity quality soil pollution volatile organic compounds wastes wastes water treatment ination contamination . fuel contamination . spacecraft contamination	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia . Australia . Europe Central Europe . North America . South America RT Antarctic regions Central Europe continental drift cratons geography mountains transcontinental systems  contingency RT confidence limits correlation estimates expectation materials handling predictions	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  continuous spectra  RT astronomical spectroscopy solar spectra spectral emission stellar spectra  continuous wave lasers  GS stimulated emission devices lasers continuous wave lasers  RT argon lasers carbon dioxide lasers carbon monoxide lasers chemical oxygen-iodine lasers laser stability
<b>contam</b> GS	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates pollution purity quality soil pollution volatile organic compounds wastes water treatment ination contamination . fuel contamination air pollution	ocean bottom seamounts  ∞ shelves  continents  GS continents	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  continuous spectra  RT astronomical spectroscopy solar spectra spectral emission stellar spectra  continuous wave lasers  GS stimulated emission devices lasers continuous wave lasers  RT argon lasers carbon dioxide lasers carbon monoxide lasers chemical oxygen-iodine lasers laser stability solid state lasers
<b>contam</b> GS	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates pollution purity quality soil pollution volatile organic compounds wastes water treatment  ination contamination . spacecraft contamination air pollution antifouling	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia . Australia . Europe Central Europe . North America . South America RT Antarctic regions Central Europe continental drift cratons geography mountains transcontinental systems  contingency RT confidence limits correlation estimates expectation materials handling predictions reserves risk  continuity	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  continuous spectra  RT astronomical spectroscopy solar spectra a spectral emission stellar spectra  continuous wave lasers  GS stimulated emission devices lasers  . continuous wave lasers  RT argon lasers carbon dioxide lasers carbon monoxide lasers chemical oxygen-iodine lasers laser stability solid state lasers  continuous wave radar
<b>contam</b> GS	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates pollution purity quality soil pollution volatile organic compounds wastes water treatment  ination contamination . fuel contamination air pollution antifouling antiinfectives and antibacterials	ocean bottom seamounts ∞ shelves  continents GS continents . Africa . Asia . Australia . Europe Central Europe . North America . South America RT Antarctic regions Central Europe continental drift cratons geography mountains transcontinental systems  contingency RT confidence limits correlation estimates expectation materials handling predictions reserves risk  continuity RT continuity (mathematics)	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  continuous spectra  RT astronomical spectroscopy solar spectral emission stellar spectra  continuous wave lasers  GS stimulated emission devices  lasers  continuous wave lasers  RT argon lasers  carbon dioxide lasers
<b>contam</b> GS	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates pollution purity quality soil pollution volatile organic compounds wastes water treatment  ination contamination . fuel contamination air pollution antifouling antiinfectives and antibacterials biological hazards	ocean bottom seamounts  ∞ shelves  continents  GS continents	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  continuous spectra  RT astronomical spectroscopy solar spectra espectral emission stellar spectra  continuous wave lasers  GS stimulated emission devices lasers . continuous wave lasers  RT argon lasers carbon dioxide lasers carbon monoxide lasers carbon monoxide lasers carbon dioxide lasers
<b>contam</b> GS	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates pollution purity quality soil pollution volatile organic compounds wastes water treatment ination contamination . fuel contamination . spacecraft contamination air pollution antifolling antiinfectives and antibacterials biological hazards contaminants	ocean bottom seamounts  ∞ shelves  continents  GS continents	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  . continuous spectra  RT astronomical spectroscopy solar spectra emission stellar spectra  continuous wave lasers  GS stimulated emission devices . lasers continuous wave lasers  RT argon lasers carbon dioxide lasers carbon monoxide lasers carbon monoxide lasers carbon monoxide lasers carbon dioxide lasers
<b>contam</b> GS	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates pollution purity quality soil pollution volatile organic compounds wastes water treatment  ination contamination . fuel contamination air pollution antifouling antiinfectives and antibacterials biological hazards contaminants decontamination	ocean bottom seamounts  ∞ shelves  continents  GS continents	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  continuous spectra  RT astronomical spectroscopy solar spectra spectral emission stellar spectra  continuous wave lasers  GS stimulated emission devices lasers  continuous wave lasers  RT argon lasers  carbon dioxide lasers  carbon monoxide lasers  chemical oxygen-iodine lasers laser stability solid state lasers  continuous wave radar  UF CW radar  GS radar  continuous wave radar  RT coherent radar
<b>contam</b> GS	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates pollution purity quality soil pollution volatile organic compounds wastes water treatment  ination contamination . spacecraft contamination air pollution antifouling antiinfectives and antibacterials biological hazards contamination environment effects	ocean bottom seamounts  ∞ shelves  continents  GS continents	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  continuous spectra  RT astronomical spectroscopy solar spectra spectral emission stellar spectra  spectral emission devices  lasers  continuous wave lasers  RT argon lasers  carbon dioxide lasers carbon dioxide lasers carbon monoxide lasers carbon dioxide lasers
<b>contam</b> GS	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates pollution purity quality soil pollution volatile organic compounds wastes water treatment  ination contamination . fuel contamination air pollution air pollution antifouling antiinfectives and antibacterials biological hazards contamination environment effects fouling	ocean bottom seamounts  ∞ shelves  continents  GS continents	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  continuous spectra  RT astronomical spectroscopy solar spectra spectral emission stellar spectra  continuous wave lasers  GS stimulated emission devices lasers carbon dioxide lasers
<b>contam</b> GS	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates pollution purity quality soil pollution volatile organic compounds wastes water treatment ination contamination . fuel contamination . spacecraft contamination air pollution antifouling antiinfectives and antibacterials biological hazards contaminatio environment effects fouling intrusion	ocean bottom seamounts  ∞ shelves  continents  GS continents	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  continuous spectra  RT astronomical spectroscopy solar spectra espectral emission stellar spectra  continuous wave lasers  GS stimulated emission devices lasers  carbon dioxide lasers carbon dioxide lasers carbon monoxide lasers carbon monoxide lasers carbon dioxide lasers
<b>contam</b> GS	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates pollution purity quality soil pollution volatile organic compounds wastes water treatment  ination contamination . fuel contamination air pollution antifouling antiinfectives and antibacterials biological hazards contaminatio environment effects fouling intrusion molecular shields	ocean bottom seamounts  ∞ shelves  continents  GS continents	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  continuous spectra  RT astronomical spectroscopy solar spectra spectral emission stellar spectra  continuous wave lasers  GS stimulated emission devices lasers  continuous wave lasers  RT argon lasers  carbon dioxide lasers  carbon monoxide lasers  chemical oxygen-iodine lasers laser stability solid state lasers  continuous wave radar  UF CW radar  GS radar  continuous wave radar  RT coherent radar  Doppler radar  pulse radar  radar detection  radar range
<b>contam</b> GS	chlorofluoromethane contamination decontamination diluents dirt dust effluents environment effects environmental quality fuel contamination hazardous materials hazardous wastes heavy metals impurities materials nonpoint sources particulates pollution purity quality soil pollution volatile organic compounds wastes water treatment ination contamination . fuel contamination . spacecraft contamination air pollution antifouling antiinfectives and antibacterials biological hazards contaminatio environment effects fouling intrusion	ocean bottom seamounts  ∞ shelves  continents  GS continents	DEF Spectra in which wavelengths, wave numbers, and frequencies are represented by the continuum of real numbers or a portion thereof, rather than by a discrete sequence of numbers. For electromagnetic radiation, spectra that exhibit no detailed structure and represent a gradual variation of intensity with wavelength from one end to the other, as the spectra of incandescent solids. For particles, spectra that exhibit a continuous variation of the momentum or energy.  GS spectra  continuous spectra  RT astronomical spectroscopy solar spectra espectral emission stellar spectra  continuous wave lasers  GS stimulated emission devices lasers  carbon dioxide lasers carbon dioxide lasers carbon monoxide lasers carbon monoxide lasers carbon dioxide lasers

tracking radar . contract incentives turboprop engines continuous waves contract management contrast DEF In general, the degree of differentiation USE continuous radiation management between different tones in an image contract management GS contrast contracts continuum flow decision making . image contrast GS fluid flow . phase contrast RT character recognition decisions . gas flow . continuum flow **PERT** color project management free molecular flow legibility schedules molecular flow subcontracts perception rarefied gas dynamics systems engineering printing slip flow resolution sharpness contract negotiation continuum mechanics visibility contractors GS mechanics (physics) vision contracts continuum mechanics decision making Burger equation  $\infty$  control government/industry relations classical mechanics (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) industries computational mechanics management continuity equation manufacturing control systems continuum modeling subcontracts controlled stability ∞ dynamics regulation flow theory contraction access control fluid mechanics RT cooling active control Maxwell bodies ∞ reduction adaptive control multipolar fields shrinkage solid mechanics air navigation air traffic control statistical mechanics spasms stress tensors aircraft control altitude control contractors approach control RT columns (process engineering) continuum modeling construction astrionics RT continuum mechanics construction industry attitude control continuums contract negotiation automatic control large space structures contracts automatic control valves mathematical models automatic flight control government/industry relations structural analysis automatic frequency control industries automatic gain control qualifications continuums avionics subcontracts DEF Things that are continuous, which biofeedback transportation have no discrete parts as the continuum of real boundary layer control numbers as opposed to the sequence of discascade control contracts crete integers, as the background continuum of chemical reaction control contracts a spectrogram due to thermal radiation. circulation control airfoils . insurance (contracts) continuum modeling RT circulation control rotors subcontracts probability theory combustion control agreements real variables command and control cancellation relativity control boards constrictions topology control configured vehicles construction control data (computers) contract management CONTOUR (mission) control equipment contract negotiation control moment gyroscopes

(added February 1999) USE Comet Nucleus Tour

**contour sensors**DEF The sensing of image coincidences by means of optical processing techniques. boundaries

concavity contours convexity imagery images ∞ sensors shapes topography

#### contours

curved surfaces concavity contour sensors convexity curved panels datum (elevation) elevation flatness geomorphology hypsography mapping roughness shapes

topography

### contract incentives

incentives

. contract incentives motivation

contractors

estimates estimating extensions federal budgets

government procurement government/industry relations grants

leasing legal liability options procurement projects proposals revisions supplements

### contrails

Condensation trails. Artificial clouds made by the exhaust of jet aircraft. UF condensation trails vapor trails RT condensates

wakes

### contralateral functions

RT ∞ functions

#### contrarotating propellers

DEF Two propellers mounted on concentric shafts having a common drive and rotating in opposite directions.

propellers GS

contrarotating propellers

RT propeller drive propeller efficiency

control rockets control rods control simulation

control stability control sticks control surfaces control systems design control theory control units (computers)

control valves controllability controlled atmospheres controlled fusion controllers critical path method cybernetics direct lift controls directional control

dynamic characteristics dynamic control electric control electronic control elevators (control surfaces)

engine control environmental control feedback control

feedforward control fire control fire control circuits flaps (control surfaces) flight control

flood control fluidics fly by tube control fly by wire control frequency control

fuel control aircraft design variable thrust ground based control ∞ control harmonic control flight control control rods helicopter control technology utilization GS rods . control rods hydraulic control ∞ vehicles integrated mission control center RT ∞ control interactive control neutron absorbers control data (computers) inventory controls RT computers nuclear reactor control jet control ∞ control nuclear reactors poisoning (reaction inhibition) lateral control ∞ data reactor cores linear parameter-varying control data systems linear quadratic Gaussian control reactor safety linear quadratic regulator control devices control simulation longitudinal control USE control equipment magnetic control GS simulation manual control . control simulation control equipment MIMO (control systems) RT aircraft control control devices missile control computerized simulation control equipment ∞ control model reference adaptive control . control sticks control theory multivariable control . pressure switches network control flight simulation regulators flight simulators nuclear reactor control . . automatic control valves hardware-in-the-loop simulation numerical control . . . pressure regulators motion simulators off-on control . . . relief valves spacecraft control optical control . . cryostats spacecraft maneuvers optimal control . . current regulators training simulators . . flow regulators . . . fuel flow regulators payload control phase control . oxygen regulators
. speed regulators control stability plasma control GS dynamic characteristics pneumatic control . dynamic stability pointing control systems . . thermostats . . voltage regulators . servoamplifiers . . control stability pollution control stability porous boundary layer control . dynamic stability process control (industry) teleoperators . control stability proportional control aircraft control RT aircraft control quality control automatic control aircraft spin radar approach control control aircraft stability radio control ∞ effectors ∞ control ∞ reaction control electric control controllability regulations electronic control flight control regulators feedback control loop transfer recovery regulatory mechanisms (biology) manipulators MIMO (control systems) remote control manual control motion stability robot control nonlinear systems Nyquist diagram rocket engine control off-on control pilot induced oscillation robustness (mathematics) sampled data systems SISO (control systems) satellite attitude control optical control satellite control pneumatic control scheduling self adaptive control systems proportional control recording instruments spacecraft motion sequential control speed control spacecraft stability servocontrol transducers stability augmentation servomechanisms systems stability shape control control moment gyroscopes shock wave control SISO (control systems) gyroscopes control moment gyroscopes control sticks GS control equipment spacecraft control attitude control control sticks spectral shift control attitude gyros RT aircraft control spectral shift control reactor attitude indicators control speed control ∞ control flight control stabilization equations of motion manual control steering gimbals Submarine Integrated Control project gyrodampers control surfaces systems engineering indicating instruments GS control surfaces tabs (control surfaces) measuring instruments . ailerons temperature control nutation dampers . . flaperons thermal control coatings servocontrol . spoiler slot ailerons thrust control servomechanisms elevators (control surfaces) thrust vector control elevons time optimal control control panels . flaps (control surfaces) traffic control USE control boards . . externally blown flaps trajectory control upper surface blown flaps Transit Attitude Control satellite control rockets . . flaperons transponder control group DEF Vernier engines, retrorockets, or other . . jet flaps turbojet engine control such rockets, used to change the attitude of, . . split flaps variable stream control engines guide, or make small changes in the speed of a . . wing flaps visual control rocket, spacecraft, or the like. Used for steering ... leading edge flaps voice control . . . leading edge slats rockets. wave incidence control steering rockets . . . trailing edge flaps weather modification . . . vortex flaps engines . rocket engines . guide vanes control boards . . jet vanes . . Vernier engines control panels . control rockets . horizontal tail surfaces consoles . torpedo engines . rudders ∞ control . Vernier engines . . aerial rudders display devices ... control rockets . . marine rudders manual control RT ∞ control . spoilers remote control retrorocket engines tabs (control surfaces)

steering

thrust control

aerodynamic brakes

aerodynamic configurations

control configured vehicles

RT aircraft configurations

aerodynamic interfer	rence	loop transfer recovery		Joint European Torus
aerodynamics		MIMO (control systems)		limiters (fusion reactors)
aircraft parts		model reference adaptive control		plasma compression
aircraft structures airfoils		multivariable control observability (systems)		plasma cooling plasma currents
airframes		off-on control		plasma physics
blunt trailing edges		optimal control		relativistic electron beams
boundary layer conti	rol	robot control		strongly coupled plasmas
canard configuration	IS	robustness (mathematics)		thermonuclear power generation
∞ control		sampled data systems		zeta pinch
drag devices		servocontrol	a a m tralla	ad atability
fins fires		shape control SISO (control systems)		ed stability control
flight control		∞ theories	OOL	Control
free wing aircraft		tracking problem	controll	ers
guidance (motion)		uncertain systems	SN	(LIMITED TO DEVICES AND CONTROL
nose fins			GS	THEORY) controllers
stabilizers (fluid dyna		I units (computers)		. power factor controllers
∞ surfaces sweptback tail surfa		Those parts of computers that can thmetic unit, storage, and transfer of		. servomechanisms
T tail surfaces	compi	ter to operate in proper sequence.	ла	servoamplifiers
tail assemblies	RT			servomotors
tail surfaces		computer components	RT	actuators
trapezoidal tail surfa	ices	computers		analyzers
vanes		∞ control	~	automatic control automation
wings		data processing equipment		control
control systems	contro	l valves		control systems design
USE <b>control</b>	GS	valves		cryostats
002 000.	40	. control valves		current regulators
control systems design	RT	actuators		cybernetics
GS systems engineering		∞ control		electronic control
. control systems o	design	pneumatic control		H-2 control
RT aerospace systems	_			H-infinity control
automatic control		llability		instrument receivers instrument transmitters
∞ automation bionics		The capability of an aircraft, rocket		instruments
bond graphs		ehicle to respond to control, especially	y	linear quadratic regulator
∞ control	UF	on or attitude. Used for handling qualit handling qualities	165.	measuring instruments
control theory	RT	aircraft control		optical control
controllers	***	aircraft performance		pneumatic control
cybernetics		aircraft specifications		pressure regulators
∞ design		aircraft spin		programmable logic devices
design analysis		aircraft stability		propellant actuated instruments
electric control		∞ control		regulators
electronic control		control stability		remote control
feedback control		control theory		rocket-borne instruments
frequency domain a	nalysis	directional stability		speed control speed regulators
genetic algorithms H-2 control		flight characteristics		temperature control
H-infinity control		helicopter control helicopter performance		thermostats
linear parameter-var	ving control	liquid sloshing		voltage regulators
linear quadratic Gau		low speed stability		0 0
linear quadratic regu		maneuverability	Convair	340 aircraft
loop transfer function	ns	pilot ratings	USE	CV-340 aircraft
loop transfer recove	ry	quality		
mathematical model		spacecraft reliability		440 aircraft
membership function		stability	USE	CV-440 aircraft
MIMO (control syste	ms)	steering	Convair	880 aircraft
numerical control		wheel brakes		CV-880 aircraft
operations research optimal control		lled atmospheres	OOL	CV-000 anciait
parameter identificat		controlled atmospheres	Convair	990 aircraft
robot control		. argon-oxygen atmospheres		CV-990 aircraft
SISO (control syster	ns)	. cabin atmospheres		
system identification		spacecraft cabin atmospheres	convect	
systems analysis		. helium-oxygen atmospheres		In general, mass motion within a fluid
systems integration		. inert atmosphere		in transport and mixing of the proper-
time domain analysi		air conditioning		that fluid. Specifically, in meteorlogy,
uncertain systems		∞ atmospheres	atmospr vertical.	neric motions that are predominately
control theory		∞ blankets		convection
RT adaptive control		clean rooms ∞ control	do	. forced convection
closed cycles		environments		. free convection
∞ control		furnaces		Rayleigh-Benard convection
control simulation		gas mixtures		Benard cells
control systems des	ígn	gnotobiotics		. stellar convection
controllability		oxygen supply equipment		solar convection (astronomy)
distributed paramete	er systems	spacecraft environments		. surface tension driven convection
dynamic control			DT	Marangoni convection
dynamical systems		led avalanche transit time devices	RT	advection
feedback feedback control	USE	CATT devices		base heating Boussinesq approximation
feedforward control	contro	lled fusion		buoyancy-driven flow
games	SN	(CONTROLLED NUCLEAR FUSION)	~	conduction
H-2 control	GS	nuclear reactions	~	convection cells
H-infinity control		. thermonuclear reactions		convection-diffusion equation
interactive control		nuclear fusion		fluid dynamics
linear quadratic Gau		controlled fusion		Grashof number
linear quadratic regu	ulator RT	∞ control		heat transmission

heating thermal diffusion frequency converters meteorology geothermal energy conversion convective heat transfer mixing height internal conversion mixing layers (fluids) GS transmission isomerization . heat transmission liquefaction stellar interiors . . heat transfer metrication. . . convective heat transfer convection cells ocean thermal energy conversion (added June 1990) aerodynamic heating organic wastes (fuel conversion) atmospheric circulation boundary layer combustion ortho para conversion convection boundary layer flow photothermal conversion convection currents Brinkman number photovoltaic conversion convective flow conductive heat transfer refining convective heat transfer convection cells satellite solar energy conversion solar energy conversion cooling fins solar total energy systems thermionic power generation convection clouds forced convection GS clouds (meteorology) free convection thermoelectric power generation . convection clouds laminar heat transfer . . arc clouds mass transfer turbogenerators . . cumulonimbus clouds Nusselt number waterwave energy conversion . . . anvil clouds radiative heat transfer . . cumulus clouds Rayleigh-Benard convection conversion tables . . anvil clouds surface cooling GS tables (data) air currents temperature gradients conversion tables cloud physics thermohydraulics  $RT \, \infty \, conversion$ meteorology thermosiphons data converters nephanalysis turbulent heat transfer International System of Units supercooling units of measurement vertical air currents conventions agreements convertaplanes convection currents air law USE V/STOL aircraft compatibility air currents Benard cells conferences ∞ converters convection cells ∞ cooperation (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) Rotary devices for changing alternat-SN convection-diffusion equation international cooperation international law electron bunching fluid flow outer space treaty ing current to direct current. Transducers whose output is a different frequency from its input. RT analog to digital converters free convection standards mixing height Rayleigh-Benard convection **convergence**DEF Approach to a limit, e.g., by an infinite binary to decimal converters solar convection (astronomy) solar granulation sequence. Used for confluence. current converters (AC to DC) confluence data converters stellar convection divergence digital to analog converters vertical air currents patch tests direct power generators convection-diffusion equation regularity down-converters (added August 1991) tapering electric generators DEF An equation for convection and diffuvariability frequency converters DEF An equation for convection and diffusion, in which the rate of change with respect to time of the density (concentration) of the 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 density of the convecting/diffusion substance. image converters convergent nozzles instrument transformers conical nozzles inverted converters (DC to AC) fluid amplifiers parametric frequency converters nozzle geometry power converters nozzle walls pulse width amplitude converters ∞ nozzles pyrometallurgy density of the convecting/diffusing substance.

UF diffusion-convection equation

RT Benard cells turbine engines solar blankets turbojet engines thermionic converters torque converters convergent-divergent nozzles transducers computational fluid dynamics HE de Laval nozzles transformers convection GS exhaust nozzles up-converters convection currents . convergent-divergent nozzles voltage converters (AC to AC) convective flow conical nozzles voltage converters (DC to DC) diffusion nozzle geometry diffusion coefficient nozzle inserts convertible fan-shaft engines ∞ equations ∞ nozzles flow equations GS engines rocket nozzles . air breathing engines flow theory supersonic nozzles Rayleigh-Benard convection . . gas turbine engines transonic nozzles reaction-diffusion equations . . . jet engines turbine exhaust nozzles . . . . turbojet engines wind tunnel nozzles convective flow .... turbofan engines UF GS . . . . . convertible fan-shaft thermal currents conversation fluid flow engines GS communicating . convective flow . aircraft engines . verbal communication . . Rayleigh-Benard convection . . convertible fan-shaft engines . . conversation . Benard cells . internal combustion engines speech . . buoyancy-driven flow . . gas turbine engines . conversation convection cells . . . jet engines voice communication convection-diffusion equation . . . . turbojet engines words (language) free convection . . . . turbofan engines gas density .... convertible fan-shaft  $\infty \ \ conversion$ geophysical fluid flow cells engines (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) bioconversion SN heat transmission . turbine engines . . gas turbine engines Marangoni convection mass flow rate . . . jet engines . . . turbojet engines mass transfer conversion tables porous boundary layer control solar convection (astronomy) . . . . turbofan engines data conversion routines ..... convertible fan-shaft electric generators stellar convection energy conversion engines energy conversion efficiency surface tension driven convection RT helicopter engines

exchanging

iet thrust

temperature

	propulsion system configurations		stellar temperature		Hilsch tubes
	rotary wings		Stellar temperature		jackets
	TF-34 engine	coolant	loss		low temperature
	turboshafts		loss of coolant		melting
	V/STOL aircraft				mushy zones
	variable cycle engines	coolant			refrigerating
	vertical takeoff aircraft		Liquids of gases used to cool some-		reusable heat shielding
		0,	a rocket combustion chamber.		spacecraft radiators
convexi	tv	GS	coolants		temperature control
	shapes		. engine coolants		temperature distribution
	. convexity	DT	. organic coolants		thermal cycling tests
RT	concavity	RT	air conditioning air cooling		thermal shock
	contour sensors		brines		thermal stresses
	contours		coolers		transpiration
	flatness		cooling		ventilation ventilation fans
	lenticular bodies		cooling systems		venting
000	surface geometry		freon		wetting
			gas cooling		wetting
convey	ors		heat exchangers		
RT	automated guideway transit vehicles		liquid cooling	cooling	fins
	automated transit vehicles		loss of coolant	GS	
	chutes		nuclear reactors		. cooling fins
	cranes		reactor materials	RT	condensers (liquefiers)
	elevators (lifts)		refrigerants		convective heat transfer
	feeders		sodium cooling		finned bodies
	forks lifts	coolers			heat exchangers
	materials handling	RT	air conditioning		heat radiators
	ribbons	111	air conditioning equipment		radiative heat transfer
	rollers		air cooling		
	scoops		compressors		
000	tracks		coolants		flows (astrophysics)
	transportation		cooling	GS	fluid flow
	•		cooling systems		. gas flow
convolu	tion integrals		cryogenic cooling	БТ	cooling flows (astrophysics)
UF	convolutions (mathematics)		refrigerating	RT	accretion disks
GS	analysis (mathematics)		refrigerating machinery		cooling
0.0	. functional analysis		refrigerators		cosmic gases
	convolution integrals				dark matter galactic clusters
	integrals	cooling	-l-:!!:		galactic evolution
	. convolution integrals	UF	chilling		intergalactic media
RT	integral transformations		heat dissipation chilling		interstellar gas
	trellis coding	GS	heat dissipation chilling cooling		star formation
		do	. absorption cooling		x ray sources
convolut	ions (mathematics)		. air cooling		.,
	convolution integrals		. evaporative cooling		
	ŭ		film cooling	coolina	systems
convuls	ions		sweat cooling	RT	absorbers (equipment)
	human pathology		. gas cooling		air conditioning
	muscles		. laser cooling		air conditioning equipment
	psychotherapy		. liquid cooling		air cooling
	seizures		film cooling		air filters
000	shock		. magnetic cooling		blowers
			. plasma cooling		capillary pumped loops
Con-X o	bservatory		. precooling		closed cycles
	ed February 2006)		. quenching (cooling)		condensers (liquefiers)
	Constellation-X		rapid quenching (metallurgy) . cryogenic cooling		coolants coolers
			radiant cooling		dehumidification
Cook In	lot (AK)		regenerative cooling		engine coolants
	landforms		. sodium cooling		Ettingshausen effect
ao	. inlets (topography)		. solar cooling		evaporative cooling
	Cook Inlet (AK)		. solid cryogen cooling		evaporators
RT	Alaska		. space cooling (buildings)		exhaust systems
			. supercooling		freon
Cookpot	aircraft		. surface cooling		heat exchangers
	TU-124 aircraft		. thermoelectric cooling		heat pumps
UUL	10-124 difcidit		. thermomagnetic cooling		heat radiators
		RT	ablation		heat sinks
cool sta			ablative materials		infrared suppression
GS	celestial bodies		air conditioning		intake systems
	. stars		bathing		liquid cooling
	cool stars		condensing contraction		lubrication systems refrigerants
	carbon stars		coolants		refrigerating
	flare stars		coolers		refrigerating machinery
	K stars		cooling flows (astrophysics)		registers (air circulation)
	M stars		cryogenics		solar cooling
	Van Biesbroeck star		engine coolants		solid cryogens
	Mira variables		film condensation		space cooling (buildings)
	Omicron Ceti star		freezing		spacecraft radiators
	S stars		freon	000	systems
RT	brown dwarf stars		geothermal energy utilization		temperature control
	giant stars		heat exchangers		temperature distribution
	R Coronae Borealis stars		heat radiators		thermoacoustic refrigerators
	stellar atmospheres		heat shielding		transpiration
	stellar envelopes		heat transfer		ventilation
	stellar spectra		heating		ventilation fans

lithium alloys vents ∞ reference systems copper chlorides coordination (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) GS copper compounds RT continuity SN copper chlorides correlation halogen compounds interfaces conventions . chlorine compounds sequencing employee relations . . chlorides time sharing international cooperation . . copper chlorides public relations . halides coordination number sea law . . chlorides (added June 2002) ... copper chlorides DEF In any system with a lattice structure, Cooper-Harper ratings . . metal halides the number of neighboring units for any given (added August 1999) ... copper chlorides flight characteristics crystal lattices . pilot ratings copper compounds crystal structure . Cooper-Harper ratings GS copper compounds ligands ratings . copper chlorides molecular structure . pilot ratings . copper fluorides ∞ numbers Cooper-Harper ratings . copper oxides x ray spectroscopy aircraft performance . copper selenides helicopter performance . copper indium selenides coordination polymers . copper sulfides RT ∞ polymers coordinate geometry language . cuprates USE COGO (programming language) RT ∞ chemical compounds Copernicus spacecraft ∞ Group 1B compounds ∞ metal compounds USE OAO 3 coordinate systems USE coordinates copilots copper fluorides USE aircraft pilots GS copper compounds coordinate transformations . copper fluorides functions (mathematics) halogen compounds . fluorine compounds coplanarity coordinate transformations GS analysis (mathematics) transformations (mathematics) . . fluorides . calculus coordinate transformations . . . metal fluorides . . vector analysis conformal mapping . . . coplanarity . copper fluorides invariant imbeddings . halides . real variables isoparametric finite elements . . fluorides . . vector analysis isotropic turbulence . . . metal fluorides . coplanarity Joukowski transformation .... copper fluorides
.. metal halides geometry Schwarzschild metric . vector analysis Theodorsen transformation . . coplanarity . . . metal fluorides . . . . copper fluorides coordinates copolymerization Sets of measures defining points in copper indium selenides GS chemical reactions space. Used for axes (coordinates) and coordi-(added June 1995) copolymerization nate systems. GS chalcogenides synthesis (chemistry) axes (coordinates) . selenides polymerization coordinate systems . . copper selenides copolymerization coordinates ... copper indium selenides block copolymers . astronomical coordinates .. indium selenides dimerization . Cartesian coordinates . . copper indium selenides polymers . computational grids copper compounds vinyl copolymers . . structured grids (mathematics) . copper selenides ... multiblock grids copper indium selenides copolymers . . unstructured grids (mathematics) indium compounds DEF Polymers formed from two or more . cylindrical coordinates . indium selenides types of monomers. . geodetic coordinates . . copper indium selenides GS copolymers . Hylleraas coordinates selenium compounds block copolymers . hyperbolic coordinates . selenides vinyl copolymers . inertial coordinates . . copper selenides Viton rubber (trademark) . Lagrange coordinates ... copper indium selenides RT KEL-F oblique coordinates . . indium selenides polymer blends planetocentric coordinates . . copper indium selenides ∞ polymers geocentric coordinates RT semiconductors (materials) . polar coordinates solar cells copper spherical coordinates thin films GS chemical elements algebra . copper analytic geometry copper isotopes . . copper isotopes axes (reference lines) GS chemical elements metals celestial reference systems . copper . transition metals Earth axis ... copper isotopes . . copper equators . nuclides . . . copper isotopes ammines Euclidean geometry . . isotopes fractals . . . radioactive isotopes constantan Fujita method copper isotopes geomagnetic latitude heavy metals metals selenium alloys geometry . transition metals grid generation (mathematics) . . copper copper isotopes grids copper alloys half planes GS alloys half spaces . copper alloys copper oxides GS chalcogenides latitude . . babbitt metal line of sight . . brasses . oxides . . metal oxides bronzes Ionaitude ... copper oxides copper compounds manifolds (mathematics) . . Manganin (trademark) aluminum-lithium alloys maps . copper oxides
RT BSCCO superconductors bearing alloys

gold alloys

lamella (metallurgy)

cuprates

∞ nets ∞ origins

position (location)

thermites core flow thermal insulation YBCO superconductors flow geometry magnetohydrodynamic flow corn copper selenides one dimensional flow UF zea mays GS chalcogenides plasmas (physics) GS farm crops . selenides shear flow . grains (food) . . copper selenides . corn copper indium selenides core sampling plants (botany) copper compounds sampling corn copper selenides agriculture core sampling . copper indium selenides blight cores selenium compounds bollworms depth measurement . selenides drilling botany Earth crust .. copper selenides crop growth . . . copper indium selenides hydrogeology ∞ crops mines (excavations) curing copper sulfides ocean bottom Earth resources GS chalcogenides ocean currents ∞ food . sulfides oceanography irrigation . . inorganic sulfides particle tracks seeds ... copper sulfides salinity copper compounds cornea samplers copper sulfides anatomy sulfur compounds core storage . sense organs . sulfides . . eye (anatomy) machine storage . . inorganic sulfides computer components . cornea ... copper sulfides computer storage devices keratitis . . random access memory vision ... core storage copyrights intellectual property magnetic storage corner flow GS core storage copyrights fluid flow GS memory (computers) documents corner flow licensing cavity flow . random access memory patent applications core storage channel flow policies ducted flow bubble memory devices regulations buffer storage ∞ flow nozzle flow data storage coral heads secondary flow magnetic disks USE coral reefs magnetic drums ∞ storage corners RT angles (geometry) coral reefs UF atoll reefs core-mantle boundary antennas coral heads (added August 1994) joints (junctions) RT atolls shapes boundaries coasts core-mantle boundary islands Corona Borealis constellation boundary layers constellations keys (islands) Earth core Corona Borealis constellation reefs Earth mantle celestial bodies lunar mantle cordage celestial sphere planetary boundary layer cables (ropes) RT planetary cores stars ceramic fibers planetary mantles connectors regolith corona discharges cotton USE electric corona tectonics fibers ∞ filaments coronagraphs cores astronomical photography strands GS solar observatories honeycomb cores strings spectroheliographs wire . lunar core Starsat telescope yarns . magnetic cores . planetary cores telescopes Cordelia . . Earth core (added January 1996) coronal holes . reactor cores Solar areas where externe UV and x A natural satellite of Uranus orbiting at stellar cores a mean distance of 49,750 kilometers. ray coronal emission is abnormally low or ab-RT ∞ cells celestial bodies core sampling sent. These are coronal regions apparently as-. natural satellites mandrels sociated with diverging magnetic fields. . . Uranus satellites GS coronas molding materials . Cordelia . stellar coronas Coriolis effect . . solar corona RT Uranus (planet) DEF The physiological effect felt by a per-. . coronal holes cordierite son moving radially in a rotating system, as a decametric waves aluminum compounds rotating space station resulting in nausea ver-∞ holes cordierite tigo, dizziness, etc. Named after Gaspard G. radio astronomy iron compounds Coriolis (d 1843), French civil engineer. solar radio emission . cordierite RT disorientation solar wind magnesium compounds ∞ effects solar x-rays . cordierite gyres stellar structure minerals ultraviolet radiation Kelvin waves . cordierite meteorology planetary waves silicon compounds coronal loops DEF Loop like structures revealed in soft x . silicates rotating environments ray images of the solar limb and believed to . . cordierite rotation evolve from the introduction of energy and denvestibular tests cordite sity perturbations at the top of an arched, cylincork (materials) drical magnetic flux tube initially in equilibrium in colloidal propellants USE the coronal plasma.

double base propellants

core flow

GS fluid flow

GS

wood

RT ∞ materials

. cork (materials)

organic materials

GS coronas

. stellar coronas

. . solar corona

### coronal mass ejection

. . coronal loops ... negatrons phonon beams chromosphere pulsed radiation .... photoelectrons coronal mass ejection ∞ radiation . . . . pi-electrons solar flares radiation distribution . . . . polarons radiation pressure solar limb . . . . solar electrons radiation sources ... nuclei (nuclear physics) coronal mass ejection ∞ rays . . . . alpha particles (added June 1997) reflected waves . . . . deuterons GS ejection refracted waves even-even nuclei . stellar mass ejection solar radiation . . . . heavy nuclei coronal mass ejection solar terrestrial interactions . . . . hypernuclei coronal loops stratosphere radiation . . . . odd-even nuclei interplanetary shock waves . . . odd-odd nuclei solar corona . tritons DEF A quantity, equal in absolute magnitude to the error, added to a calculated or solar flares . . . plasmas (physics) solar wind argon plasma stellar coronas observed value to obtain a true value. beta particles STEREO (observatory) GS correction boundary layer plasmas . atmospheric correction . . . . cold plasmas coronary artery disease . optical correction procedure . . . . collisional plasmas diseases GS RT accommodation ... strongly coupled plasmas . heart diseases accuracy collisionless plasmas . coronary artery disease adaptation . . . cosmic plasma RT angina pectoris adjusting cylindrical plasmas arteriosclerosis alignment myocardial infarction dense plasmas error correcting devices . . plasma focus errors coronary circulation . strongly coupled plasmas improvement GS circulation electron plasma information theory . blood circulation electron-positron plasmas intercalibration . coronary circulation elliptical plasmas parity redundancy RT heart helium plasma heart valves high temperature plasmas revisions hydrogen plasma vegetative index coronas deuterium plasma GS coronas . . laser plasmas correlation . electric corona . . . . metallic plasmas DEF In statistics, a relationship between . stellar coronas . cesium plasma two occurrences which is expressed as a num-. . solar corona . . . . uranium plasmas ber between minus one (-1) and plus one (+1). ... coronal holes microplasmas Used for correlation functions. . . coronal loops . . . nitrogen plasma correlation functions electric arcs . . . . nonequilibrium plasmas GS correlation electric discharges . . . . nonuniform plasmas . angular correlation halos oxygen plasma . autocorrelation ionization . . . . rarefied plasmas . correlation coefficients solar spectra relativistic plasmas . correlation detection ... rotating plasmas . cross correlation corotation semiconductor plasmas data correlation GS gyration . . . space plasmas spectral correlation . rotation . . . . solar wind statistical correlation . corotation . . . . . stellar winds bivariate analysis astronomical models dusty plasmas collating Earth magnetosphere . . . . spherical plasmas confidence galactic rotation thermal plasmas contingency galactic structure . . . toroidal plasmas coordination spiral galaxies . . primary cosmic rays covariance stellar motions . . . solar cosmic rays ∞ estimators stellar rotation ... radiation belts evaluation ... artificial radiation belts factor analysis Corporal missile inner radiation belt forecasting missiles GS ... outer radiation belt information theory . surface to surface missiles proton belts least squares method Corporal missile . . solar corpuscular radiation multivariate statistical analysis liquid propellant rocket engines ... solar electrons optimization . . . solar neutrinos probability theory corpuscles (blood) . . . solar neutrons quality control USE blood cells solar protons regression analysis alpha particles regression coefficients corpuscular radiation atmospheric radiation significance (LIMITED TO NONELECTROMAGNETIC RADIATION CONSISTING OF ENERGETIC CHARGED OR NEUTRAL PARTICLES) background radiation statistical analysis beams (radiation) teleconnections (meteorology) Nonelectromagnetic radiation consist-Cerenkov radiation time series analysis ing of energetic charged or neutral particles. charged particles validity Used for penetrating particles. coherent radiation variability penetrating particles continuous radiation variance (statistics) particles cosmic rays . corpuscular radiation electromagnetic radiation correlation coefficients extraterrestrial radiation . . electron precipitation GS coefficients . . electron radiation flux (rate) . correlation coefficients ... beta particles galactic radiation correlation incident radiation . correlation coefficients ... electron beams interstellar radiation . . . . relativistic electron beams statistical analysis . . energetic particles ionizing radiation correlation coefficients . . . electrons ions quality control conduction electrons mesons statistical correlation . . . . free electrons neutrons .... high energy electrons .... relativistic electron beams nuclear particles correlation detection DEF A method of detection in which a signal nuclear radiation

nuclei (nuclear physics)

particle production

is compared, point-to-point, with an internally

generated reference.

. . . . hot electrons . . . . N electrons

GS	correlation	RT	agration		wayaguida antannaa
us	. correlation detection	RI.	aeration antifouling		waveguide antennas
	detection		antioxidants	corri	ıgating
	. signal detection		cavitation corrosion		Corrugated plates
	correlation detection		chemical attack		corrugated shells
RT 。	o detectors		cleaning		deformation
111 *	electromagnetic wave filters		coating		grooves
	phase lock demodulators		coatings		∞ plates
	signal to noise ratios		desensitizing		∞ ridges
	signal to holde ratios		∞ films		∞ waves
correlati	ion functions		fuel tanks		
	correlation	,	∞ inhibition	Cors	air aircraft
			inhibitors		E A-7 aircraft
correlat	tors		metal coatings		
SN	(LIMITED TO DEVICES THAT DETECT		nickel coatings	∞ corte	exes
	WEAK SIGNALS IN NOISE BY		packaging	SI	
	PERFORMING AN ELECTRONIC OPERATION)		passivity		RECOMMENDEDCONSULT THE TERMS
DEF	Devices that detect weak signals in		preserving	R.	LISTED BELOW)  T cerebral cortex
noise b	y performing an electronic operation.		propellant additives		cortexes (botany)
Used fo	r synchronous detectors.		sensitizing		contoxed (botany)
UF	synchronous detectors		siliconizing	corte	exes (botany)
GS	correlators		surface finishing		T ∞ cortexes
	. image correlators		surface treatment		plants (botany)
	. optical correlators		water treatment		planto (botany)
RT	synchroscopes		weatherproofing	Corti	organ
	,		Weatherpreening		S anatomy
corrido	rs	corros	on resistance	۵.	. sense organs
GS	corridors	GS	corrosion resistance		ear
	. Great Plains Corridor (North	GS	. oxidation resistance		labyrinth
	America)	RT	antioxidants		cochlea
	. St Louis-Kansas City Corridor (MO)	nı	cavitation corrosion		Cornea
RT	passageways				Corti organ
	,		chemical attack	corti	costeroids
corrosi	on		chemical tests		S organic compounds
DEF	The deterioration of a metal by chemi-		passivity	G.	. lipids
	lectrochemical reaction with its environ-		pitting		steroids
	sed for metal corrosion.	•	∞ resistance		corticosteroids
UF	metal corrosion		rusting		aldosterone
GS	corrosion		salt spray tests		
	. cavitation corrosion		siliconizing		hydroxycorticosteroid cortisone
	. electrochemical corrosion		sulfidation		
	. fretting corrosion		surface finishing		glucocorticoids
	. fuel corrosion				secretions
	. hot corrosion		on test loops		. endocrine secretions
	. intergranular corrosion	GS	environmental tests		hormones
	. rusting		. corrosion tests		corticosteroids
	. scale (corrosion)		corrosion test loops		aldosterone
	. stress corrosion		loops		hydroxycorticosteroid
	stress corrosion cracking		. corrosion test loops		cortisone
		RT «	∞ tests	_	glucocorticoids
рт	. transgranular corrosion			R	T adrenal metabolism
RT	chemical attack	corros	on tests		
	chemical reactions	GS	environmental tests	corti	
	coatings		. corrosion tests	G	
	damage		corrosion test loops		cortisone
	degradation		salt spray tests		organic compounds
	deposits	RT	cavitation corrosion		. lipids
	deterioration		chemical attack		steroids
	dissolving		destructive tests		corticosteroids
	durability		fuel tests		hydroxycorticosteroid
	electrochemistry		∞ materials tests		cortisone
	electrolysis		pitting		secretions
	erosion		propellant tests		endocrine secretions
	etchants		stability tests		hormones
	etching		stress corrosion cracking		corticosteroids
	failure		∞ tests		hydroxycorticosteroid
	finishes		transgranular corrosion	_	cortisone
	fouling		underwater tests	R	T adrenal metabolism
	gas-metal interactions		weathering		carbohydrate metabolism
	humidity				
	impingement	corrug	ated plates	corui	
	incompatibility		structural members	USI	E aluminum oxides
	metal coatings	ao	. plates (structural members)		
0	o metallurgy		corrugated plates		us missile
	metal-water reactions	RT	corrugating	G	S missiles
	oxidation		reinforced plates	_	. Corvus missile
	passivity		. Carrotoca piatoc	R	T liquid propellant rocket engines
	pitting		ated shalls		D cotallita
	protective coatings		ated shells		-B satellite
	salt spray tests	GS	(	G	artificial satellites
	sterilization effects	ОТ	. corrugated shells		. ESA satellites
	surface properties	RT	anisotropic shells		COS-B satellite
	tribology		corrugating		ESA spacecraft
	wear		reinforced shells		. ESA satellites
	weathering				COS-B satellite
			ated waveguides	R	T Europa 2 launch vehicle
	on prevention		led February 1998)		European space programs
GS	prevention	GS	waveguides		gamma ray sources (astronomy)
	. corrosion prevention		corrugated waveguides		
	protection	RT	gratings (spectra)		ne series
	. corrosion prevention		optical waveguides	G	analysis (mathematics)

. calculus . . series (mathematics) ... cosine series . real variables . . differential equations ... cosine series . . periodic functions

. . . trigonometric functions .... cosine series

. . series (mathematics) ... cosine series

functions (mathematics) . transcendental functions . . periodic functions

. . . trigonometric functions ... cosine series

RT wavelet analysis

Cosmic Background Explorer satellite

DEF A NASA satellite launched on November 18, 1989 on a Delta I expendable launch vehicle. It is designed to measure backgound radiation in order to confirm or deny the big bang theory. Used for COBE.

COBE

GS artificial satellites

. scientific satellites . . Explorer satellites

Cosmic Background Explorer satellite

background radiation radiation spectra spaceborne astronomy

#### cosmic dust

DEF Finely divided solid matter with particle sizes smaller than a micrometeorite, thus with diameters much smaller than a millimeter, moving in interplanetary space.

GS extraterrestrial matter

. interstellar matter . . cosmic dust

... interplanetary dust

... meteoroid dust clouds

. . . . . zodiacal dust

particles . dust

.. cosmic dust

. . . interplanetary dust .... meteoroid dust clouds

. . . zodiacal dust

infrared cirrus (astronomy) intergalactic media

meteoroids micrometeorites micrometeoroids molecular clouds

organic solids

polycyclic aromatic hydrocarbons reflection nebulae space debris terrestrial dust belt Venus fly trap rocket vehicle

cosmic gamma ray bursts USE gamma ray bursts

cosmic gases

extraterrestrial matter GS

. cosmic gases

. . interplanetary gas

. . interstellar gas

gases

. rarefied gases

. . cosmic gases

. . . interplanetary gas

. . interstellar gas

cooling flows (astrophysics) degenerate matter electron gas intergalactic media ionized gases

neutral gases Sunyaev-Zeldovich effect

cosmic microwave background radiation (added July 2000)

CMBR (astronomy) background radiation GS

. cosmic microwave background radiation

electromagnetic radiation

. radio waves

. . extraterrestrial radio waves

... cosmic microwave background radiation

. . short wave radiation

. . . microwaves

. . . . cosmic microwave background radiation

extraterrestrial radiation

. extraterrestrial radio waves

. . cosmic microwave background radiation

cosmology Microwave Anisotropy Probe RT

radio astronomy relic radiation

Sunyaev-Zeldovich effect

cosmic noise

Interference caused by cosmic radio DFF

waves. GS

electromagnetic interference

. radio frequency interference . . electromagnetic noise

. cosmic noise

Alouette project background noise background radiation centimeter waves

electromagnetic noise measurement

galactic radiation galactic radio waves interstellar radiation microwave emission microwaves noise storms

solar radiation solar radio emission

cosmic plasma

GS extraterrestrial matter

. cosmic plasma particles

. charged particles

. . energetic particles

. . . plasmas (physics)

.... cosmic plasma . corpuscular radiation

. . energetic particles

... plasmas (physics)

. . . cosmic plasma

intergalactic media interplanetary gas plasma clouds

plasmapause relativistic plasmas solar wind

stellar winds

strongly coupled plasmas

cosmic radiation

USE cosmic rays

cosmic radio waves

USE extraterrestrial radio waves

cosmic ray albedo GS albedo

. cosmic ray albedo

absorptance ∞ absorption atmospheric attenuation Earth albedo lunar albedo

primary cosmic rays reflectance

secondary cosmic rays

cosmic ray showers

air showers Auger showers Moliere formula ionizing radiation

. cosmic ravs

. cosmic ray showers RT Auger effect ∞ cascades

electron photon cascades secondary cosmic rays

cosmic rays

DEF The aggregate of extremely high energy subatomic particles which travel the solar system and bombard the earth from all directions. Cosmic ray primaries seem to be mostly protons, hydrogen nuclei, but also contain heavier nuclei. On colliding with atmospheric particles thay produce many different kinds of lower energy secondary cosmic radiation. Used for cosmic radiation.

UF cosmic radiation GS ionizing radiation

. cosmic rays

. . cosmic ray showers

. . galactic cosmic rays . . gamma ray bursts

. . primary cosmic rays

. . . solar cosmic rays . . secondary cosmic rays

aerospace environments

albedo Alpha Magnetic Spectrometer

alpha particles big bang cosmology Cerenkov radiation corpuscular radiation

deuterons

electromagnetic radiation electron acceleration

electrons

extraterrestrial radiation

Fermi Gamma-ray Space Telescope

Forbush decreases galactic radiation gamma ray telescopes gamma rays

heliosphere interstellar radiation

ion density (concentration) mesons

neutrons nuclear particles nuclei (nuclear physics) particle tracks photons

protons ∘ radiation radiation belts radiative transfer scintillating fibers single event upsets

solar radiation stellar radiation

VLF emission recorders x rays

cosmic x rays

GS electromagnetic radiation

. x rays

. cosmic x rays ionizing radiation

. x rays . cosmic x rays

extraterrestrial radiation galactic radiation gamma ray astronomy gamma ray bursts gamma rays

x ray astronomy x ray binaries x ray sources

(added November 1999)

USE weakly interacting massive particles

cosmochemistry

DEF The branch of chemistry that deals with the chemical composition and changes in the universe.

RT ∞ chemistry cosmology extraterrestrial matter geochemistry interstellar chemistry

isotope ratios laboratory astrophysics meteoritic composition

cosmogony

USE cosmology

### cosmology

UF cosmogony cosmology GS

. big bang cosmology
. Hubble diagram

. missing mass (astrophysics) astronomical models

astrophysics

cosmic microwave background radiation

cosmochemistry dark energy

dark matter event horizon

existence

galactic evolution

grand unified theory gravitinos

Hubble constant

large-scale structure of the universe local group (astronomy)

mass distribution naked singularities

nuclear astrophysics planetary evolution

Population III stars

protoplanets

red shift

star distribution

star formation

stellar evolution

stellar mass accretion

string theory supergravity supersymmetry

Tully-Fisher relation

universe

white holes (astronomy)

### cosmonauts

GS personnel

. flying personnel . cosmonauts

RT ∞ astronautics

astronauts

crew experiment stations crew observation stations

crew workstations

crews

pilots (personnel)

Russian Space Program

spacecrews

### ∞ cosmos

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

RT Cosmos satellites universe

### Cosmos 2 satellite

GS artificial satellites

. geophysical satellites

. . Cosmos satellites

. Cosmos 2 satellite

. Soviet satellites

. . Cosmos satellites

... Cosmos 2 satellite

### Cosmos 3 satellite

GS artificial satellites

. geophysical satellites . . Cosmos satellites

. Cosmos 3 satellite

. Soviet satellites

. . Cosmos 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

artificial satellites

. geophysical satellites

. . Cosmos satellites Cosmos 149 satellite

. Soviet satellites . . Cosmos satellites

... Cosmos 149 satellite

### Cosmos 166 satellite

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 DFF by the USSR reportedly for geophysical obser-

vations. GS artificial satellites

> . Soviet satellites . Cosmos 782 satellite

#### RT international cooperation

Cosmos 936 satellite DEF One in a series of satellites launched by the USSR reportedly for geophysical observations.

GS artificial satellites

. Soviet satellites

. Cosmos 936 satellite international cooperation

### Cosmos 954 satellite

A Russian ocean surveillance satellite

### Cosmos 1129 satellite

which reentered over Canada spreading radioreconnaissance . launch costs rescue operations life cycle costs active debris. GS artificial satellites . low cost SarSat . geophysical satellites searching . operating costs . . Cosmos satellites . production costs . Cosmos 954 satellite Cosserat surfaces . aircraft production costs . Soviet satellites RT flat surfaces accounting . . Cosmos satellites ∞ surface geometry aircraft production . . Cosmos 954 satellite surface properties commerce cost analysis uncontrolled reentry (spacecraft) surfaces cost estimates Cosmos 1129 satellite cost analysis damage assessment DEF Soviet VOSTOK biological spacecraft UF cost benefit analysis design to cost launched on September 25, 1979 carrying ex- $RT \, \infty \, analyzing$ economic analysis periments from several nations. NASA contribbudgeting economic factors uted 13 experiments. comparison economic impact GS artificial satellites costs economics . geophysical satellites design to cost efficiency economic analysis estimating .. Cosmos satellites . . Cosmos 1129 satellite feasibility evaluation . Soviet satellites feasibility analysis feasibility . . Cosmos satellites financial management financial management . . Cosmos 1129 satellite life cycle costs gross national product RT international cooperation management revenue management analysis task complexity Cosmos satellites management planning tasks artificial satellites optical transfer function value . geophysical satellites production costs . . Cosmos satellites proposals Cote d'Ivoire ... Cosmos 2 satellite value engineering ... Cosmos 3 satellite (added September 1993) wage surveys ... Cosmos 5 satellite Ivory Coast ... Cosmos 6 satellite nations cost benefit analysis GS Cosmos 14 satellite (added April 2000) Cote d'Ivoire ... Cosmos 44 satellite cost analysis Africa Cosmos 54 satellite cost effectiveness . . . Cosmos 71 satellite COTS products Cosmos 110 satellite cost effectiveness (added March 2001)
USE commercial off-the-shelf products . Cosmos 137 satellite UF cost benefit analysis Cosmos 144 satellite GS effectiveness . . . Cosmos 149 satellite . cost effectiveness Cosmos 166 satellite RT allocations cotton . . Cosmos 186 satellite budgeting GS farm crops Cosmos 188 satellite commercial off-the-shelf products . cotton . . . Cosmos 206 satellite life cycle costs plants (botany) Cosmos 213 satellite cotton Cosmos 224 satellite cost estimates boll weevils Cosmos 225 satellite estimates GS bollworms ... Cosmos 381 satellite cost estimates clothing Cosmos 954 satellite aircraft production costs cordage appropriations Cosmos 1129 satellite cotton fibers budgeting Intercosmos satellites Earth resources . Soviet satellites costs fabrics . . Cosmos satellites economic analysis fibers Cosmos 2 satellite economy textiles estimators Cosmos 3 satellite varns federal budgets Cosmos 5 satellite Cosmos 6 satellite financial management Cosmos 14 satellite management cotton fibers ... Cosmos 44 satellite production costs GS clothing Cosmos 54 satellite value engineering cotton fibers wage surveys ... Cosmos 71 satellite fibers Cosmos 110 satellite . cotton fibers ... Cosmos 137 satellite cost incentives textiles Cosmos 144 satellite RT efficiency . cotton fibers . . . Cosmos 149 satellite incentive techniques cotton Cosmos 166 satellite management crepe . Cosmos 186 satellite value engineering organic materials Cosmos 188 satellite cost reduction . . . Cosmos 206 satellite commonality Cosmos 213 satellite couches efficiency . . . Cosmos 224 satellite RT beds incentive techniques Cosmos 225 satellite cushions launch costs . . . Cosmos 381 satellite harnesses management Cosmos 954 satellite seats ... Cosmos 1129 satellite management methods . . Intercosmos satellites management planning rapid prototyping Couette flow RT ∞ cosmos small satellite technology GS fluid flow . steady flow value engineering COSPAR (committee) . Couette flow USE Committee on Space Research wage surveys . two dimensional flow COSPAS Costa Rica . Couette flow The USSR satellite of the COSPAS-GS nations . viscous flow SarSat project which is a satellite-aided project Costa Rica . Couette flow for the search and rescue of distressed vehicles, annular flow RT Central America administered by USSR, US, French, and Canaaxisvmmetric flow Brinkman number dian agencies. costs GS artificial satellites Hartmann flow GS costs

. freight costs

internal flow

COSPAS

rotating cylinders boundary value problems metal cutting counterflow counting Cougar aircraft counter-rotating wheels USE F-9 aircraft rotating disks RT counters rotating fluids data acquisition cough enumeration GS reflexes estimating counterbalances . respiratory reflexes ∞ measurement aircraft stability RT . cough ∞ numbers ballast (mass) signs and symptoms observation dynamic stability . cough repetition mass distribution RT expellants sampling spacecraft stability static stability coulees counting circuits USE canyons GS circuits counterflow . counting circuits Coulomb collisions fluid flow GS . scalers The collisions of sets of two particles counterflow anticoincidence detectors both of which are charged. axial flow counters GS collisions counter rotation logic circuits Coulomb collisions heat exchangers charged particles heat transfer counting rate computers trapped vortices data processing equipment Coulomb potential turbulent diffusion . computers potential energy turbulent flow . . counting rate computers electric potential vortices Coulomb potential coupled modes charged particles Modes of vibration that are not indecounterinsurgency aircraft coulometry USE COIN aircraft pendent, but which influence one mode to the electric field strength other. Used for mode coupling. electric fields UF mode coupling countermeasures ∞ potential modes countermeasures coupled modes . ballistic missile decoys coulometers RT chemical bonds . electronic countermeasures Electrolytic cells or electronic devices couples . . antiradar coatings arranged to measure the quantity of electricity couplings . chaff by the chemical action produced in accordance crosslinking . jamming with Faraday's law. laser arrays GS measuring instruments optical countermeasures magnetosphere-ionosphere coupling reentry decoys coulometers polymerization stealth technology RT ammeters strongly coupled plasmas antiradiation missiles chemical analysis uncoupled modes Blue Goose missile coulometry electrical measurement decoys couplers electrochemistry protection (EXCLUDES MECHANICAL DEVICE) electrodeposition quail missile couplers electrolysis radar absorbers . antenna couplers target masking titration . . diplexers torpedoes voltmeters . . directional couplers . coupling circuits coulometry counter-rotating wheels antenna components electrical measurement coupling inertia wheels . coulometry GS couplings electrochemistry impedance matching counter-rotating wheels . electrolysis counter rotation vokes coulometry flywheels Coulomb potential dears couples coulometers mechanical drives RT antenna couplers coupled modes reaction wheels countdown coupling circuits DEF A step-by-step process that culminates cross coupling diplexers counters in a climactic event, each step being performed UF dekatrons in accordance with a schedule marked by a optical coupling gas discharge counters count in inverse numerical order; specifically, spin-spin coupling pulse recorders this process is used in leading up to the launch uncoupled modes quantizer of a large of complicated rocket vehicle, or in yokes measuring instruments leading up to a captive test, a readiness firing, a . counters mock firing or other firing test. coupling . . radiation counters GS preflight operations (FOR MECHANICAL DEVICES, USE COUPLINGS) SN . Cerenkov counters . countdown electron counters schedules GS coupling Geiger counters countdown . acoustic coupling . . . neutron counters checkout . cross coupling . neutron spectrometers crew procedures (preflight) . electromagnetic coupling particle telescopes launching . . microwave coupling proportional counters liftoff (launching) . . optical coupling . . . quantum counters prelaunch problems gyroscopic coupling scintillation counters prelaunch tests . magnetosphere-ionosphere coupling . . spark chambers space vehicle checkout program spin-spin coupling accumulators (computers) . thermodynamic coupling spacecraft launching computer components antenna couplers windows (intervals) counting Clebsch-Gordan coefficients counting circuits counter rotation couplers data recorders DEF Movement of sets of bodies or fluids couplings

# countersinking

around a common axis where movement in own

rotational direction is opposed by movement in

the opposite direction.

GS

gyration

rotation

. . counter rotation

RT grinding (material removal)

ionization chambers

recording instruments

decoupling

linkages

directional couplers

mechanical drives

Racah coefficient

velocity coupling

	wave interaction	RT	flight clothing	RT	ceramic matrix composites
counling	g circuits		protective clothing		crack opening displacement crack propagation
	circuits	coverir	igs		fiber composites
	. coupling circuits	RT	camouflage		fracture mechanics
	couplers		∘ caps		metal matrix composites
RT	. coupling circuits antenna couplers	c	∘ casing closures	crack c	losure
	couples		coatings		Phenomenon which occurs when the
	cross coupling		electrostatic bonding		lasticity of a material gives rise to the
	energy transfer		enclosures		ment of residual plastic deformations in
	impedance matching microwave coupling	c	∘ envelopes guards (shields)		nity of a crack tip, causing the fatigue oclose at positive load.
	RC circuits		housings	RT	
	RL circuits		jackets		cracking (fracturing)
	transformers		masking netting (materials/structures)		cracks Elber equation
coupling	g coefficients		preserving		fatigue (materials)
	coefficients		sealing		fractography
DT	. coupling coefficients		shells (structural forms)		fracture mechanics
RT	form factors magnetic induction		shrouds spherical caps		fracture strength fracturing
	transfer functions		opnonoal sapo		Griffith crack
		coves			metal fatigue
coupling DEF		USE	bays (topographic features)		microcracks
	Devices or contrivances for joining ad- nds or parts of anything. Devices per-	Cowell	method		stress corrosion cracking surface cracks
	ransfer of energy from one electrical	USE	numerical integration		Surrado Gradico
	another, or from one mechanical device				ormation
to anoth	er. anchors (fasteners)	cowling	<b>gs</b> housings	USE	crack initiation
ΠI	bolts	ao	. cowlings	crack o	jeometry
	clips	RT	air intakes	DEF	The shape and size of partial fractures
	closures		fairings		in materials.
	connectors coupled modes		nacelles pods (external stores)	GS	geometry . crack geometry
	couplers		protuberances	RT	cavities
	coupling		shells (structural forms)		crack tips
	directional couplers	CP viol	ation		cracks
	fasteners fittings		ed April 2002)		fatigue (materials) fractography
	joining		Violation of the combined conservation		microcracks
	joints (junctions)		sociated with charge conjugation (C) and		short cracks
	linkages		nversion (P, parity) by the weak nuclear a symmetry violation thought to be re-		surface cracks
	mechanical drives pins		le for the excess of matter over antimat-		voids
	rivets		e Universe.	crack ii	nitiation
	screws	GS	symmetry	UF	crack formation
	sleeves		. broken symmetry	RT	brittleness crack arrest
	splines trailers	RT	conservation laws		crack tips
	unions (connectors)		parity		cracks
			particle decay		critical loading
Courier	aircraार U-10 aircraft		standard model (particle physics) weak interactions (field theory)		fracture mechanics fracture strength
OOL	o to anotate		,		J integral
	satellite		eat transfer)		metal fatigue
GS	artificial satellites . Courier satellite		ed September 2003) capillary pumped loops		metal surfaces microcracks
RT	Advent Project	USL	capillary pulliped loops		short cracks
		Crab n	ebula		stress concentration
courses	th	GS	celestial bodies		stress corrosion cracking
USE	paths		. nebulae Crab nebula		stress intensity factors surface cracks
covalen	ce	RT	Orion nebula		surface defects
RT	chemical bonds		supernovae		toughness
	covalent bonds		Taurus constellation		
covalen	t bonds	crabs			pening displacement ed September 1988)
	chemical bonds	GS	animals		The displacement at the mouth of a
	. covalent bonds		. invertebrates		a material. Used for COD (cracks).
RT	covalence		arthropods crabs	UF GS	COD (cracks) displacement
covariar	nce		Clabs	GG	. crack opening displacement
GS	statistical analysis	crack a	rrest	RT	crack bridging
	. variance (statistics)	RT	crack initiation		crack propagation
	multivariate statistical analysis covariance		crack propagation crack tips		cracking (fracturing) cracks
RT	correlation		cracking (fracturing)		fracture mechanics
	experiment design		5 (		fracture strength
	factor analysis		oridging		fractures (materials)
	orthogonality quality control		ed March 1995) The occurence of unbroken material		fracturing
	regression analysis		or reinforcing elements extending across		gaps notch tests
	significance	the surf	aces of a crack. A common occurrence in		notches
	variability		mposites and some ceramic materials, it		voids
coverall	s	tance.	ites to improved crack growth resis-	crack n	propagation
	clothing	UF	fiber bridging	GS	propagation (extension)
	. coveralls		grain bridging		crack propagation

RT	acoustic emission		stress corrosion	implicit	method which avoids the need for using
	bend tests		stress intensity factors		nall time steps.
	brittleness		structural failure	ŔŦ	
	Coffin-Manson law		structural strain		differential equations
	crack arrest		temperature inversions		finite difference theory
	crack bridging				finite element method
	crack opening displacement	cracks			numerical analysis
	crack tips	UF	crevices		problem solving
	cracking (fracturing)	GS	fractures (materials)		
	cracks		. cracks	cranks	
	fatigue (materials)		crack tips	USE	eccentrics
	fractography		edge cracks		
	fracture mechanics		microcracks	crash i	njuries
	fracture strength		short cracks	GS	injuries
	fracturing		surface cracks		. crash injuries
	Griffith crack	RT	cavities	RT	accidents
	J integral		crack closure		burns (injuries)
	metal fatigue		crack geometry		hazards
	micromechanics		crack initiation		whiplash injuries
	plane strain		crack opening displacement		
0	∘ propagation		crack propagation	crash l	
	residual strength		cracking (fracturing)	GS	crashes
0	∘ resistance		defects		crash landing
	Segre characteristic		Elber equation		. ditching (landing)
	short cracks		failure modes	RT	aircraft accidents
	strain distribution		fatigue (materials)		aircraft hazards
	stress corrosion cracking		interstices		aircraft safety
	stress distribution		leakage		aircraft spin
	stress intensity factors		openings		arresting gear
	surface cracks		stresses		crashworthiness
			temperature inversions		emergency landing
crack t			ultrasonic spectroscopy		flight hazards
DEF	The boundaries between cracked and		,		glide landings
uncrack	ed material.	CRAF r	mission		hard landing
GS	fractures (materials)	USE	Comet Rendezvous Asteroid Flyby		horizontal spacecraft landing
	. cracks		Mission		lunar landing
	crack tips				pilot error
	tips	craft			planetary landing
	. crack tips	USE	vehicles		skid landings
RT	crack arrest				soft landing
	crack geometry	Cramer	-Rao bounds		spacecraft landing
	crack initiation		ed June 1997)		water landing
	crack propagation	GS	analysis (mathematics)		
		GO	. real variables	crashe	
	g (chemical engineering)		extremum values	GS	crashes
	A process used to reduce the molecu-		minima		. crash landing
	ht of hydrocarbons by breaking molecu-		Cramer-Rao bounds		ditching (landing)
	ls by thermal, catalytic, or hydrocracking	RT	Fisher information	RT	accidents
method	S.	111	maximum likelihood estimates		air bag restraint devices
GS	chemical reactions		variance (statistics)		aircraft accidents
	. cracking (chemical engineering)		variation (statistics)		aircraft hazards
	hydrocracking	cramps			aircraft safety
	pyrolysis	RT			collisions
	decomposition	n i	epilepsy muscular function		crashworthiness
	. cracking (chemical engineering)		seizures		encounters
	hydrocracking		Seizures		flight hazards
	pyrolysis	oronoo			flight safety
RT	ammonolysis	cranes	(EVOLUDEO PIPPO)		highways
	catalysis	SN GS	(EXCLUDES BIRDS) handling equipment		midair collisions
	catalytic activity	ao	. cranes		pilot error
	chemical engineering		gantry cranes		runway incursions
	coal gasification	RT	booms (equipment)		safety
	electrolysis	n i	conveyors		wreckage
	hydrocarbons		o lifts		
	hydrogenolysis	Ŭ	logistics		orthiness
	hydrolysis		materials handling	DEF	The ability of a vehicle to withstand a
	nitrolysis		towers	crash.	
	organic chemistry		winches	RT	aircraft accidents
	photolysis		WITCHES		aircraft landing
	thermal dissociation		_		aircraft safety
		craniur GS			crash landing
	g (fracturing)	do	anatomy . head (anatomy)		crashes
GS	fracturing		skull		flight safety
	cracking (fracturing)				impact resistance
	stress corrosion cracking		cranium		
RT	brittle materials		intracranial cavity	craterir	
	brittleness		. musculoskeletal system	GS	cratering
	crack arrest		bones		. projectile cratering
	crack closure		skull	RT	craters
	crack opening displacement		cranium		ejecta
	crack propagation	D7	intracranial cavity		impact damage
	cracks	RT	intercranial circulation		Mars craters
	destruction		mastoids		meteorite craters
	edge cracks				meteoritic damage
	failure	cranked	•		nuclear explosions
	fatigue (materials)	USE	swept wings		
	J integral			craters	
	kinking	Crank-l	Nicholson method	UF	maars
	rupturing	DEF	A method for solving parabolic partial	GS	craters
	stress concentration	differen	tial equations, whose main feature is an		. lunar craters

. . Ptolemaeus Crater Mesozoic Era . . creep rupture strength . . Tycho crater paleobiology shear creep . meteorite craters . . steady state creep paleontology . planetary craters . tensile creep Tertiary Period anelasticity . . Mars craters RT asteroid collisions deformation crevasses dimensional stability calderas GS crevasses cometary collisions ductility glaciers cones (volcanoes) fatigue (materials) Earth movements cratering ∞ flow geological faults ejecta plastic deformation recesses impact damage plastic flow seamounts satellite surfaces ∞ properties residual stress crevices cratons shear flow USE cracks continents shear properties Earth crust static deformation **Crew Equipment Translation Aid (ISS)** Earth surface stress relaxation (added December 2002) ocean bottom stresses DEF A human powered cart used by astrostructural failure nauts to conduct extravehicular-activity (EVA) crawler tractors superplasticity maintenance on the International Space Station GS surface vehicles temperature inversions (ISS) . motor vehicles ÚF CETA cart (ISS) . . tractors creep resistance GS . . crawler tractors carts USE creep strength . Crew Equipment Translation Aid electric motor vehicles ground support equipment (ISS) creep rupture strength astronaut maneuvering equipment handling equipment stress rupture strength mechanical properties UF lunar surface vehicles extravehicular activity GS extravehicular mobility units manned lunar surface vehicles . creep properties International Space Station . . creep rupture strength fracture strength tracked vehicles orbital assembly ∞ transport vehicles RT ∞ vehicles J integral crew experiment stations ∞ strength Cray computers GS stations DEF Supercomputers built by Cray Recreep strength . workstations search Inc. that require the supporting services DEF The constant nominal stress that will . . crew workstations of another front-end general purpose computer cause a specified quantity of creep in a given . . crew experiment stations for operation. They incorporate very fast scalar time at constant temperature. Used for creep astronauts and vector hardware, are used primarily for the resistance. compartments simulation of physical phenomena, and are procreep resistance cosmonauts grammed in FORTRAN. mechanical properties GS crews GS data processing equipment creep strength personnel . computers RT load carrying capacity spacecraft cabins . . supercomputers ∞ resistance spacecrews ... Cray computers  $\infty$  strength **Crew Exploration Vehicle** creep tests (added July 2005) RT ∞ markers compression tests Orion crew vehicle temperature measurement fatigue tests GS lunar spacecraft load tests Crew Exploration Vehicle crazing plastic deformation manned spacecraft USE surface cracks static tests **Crew Exploration Vehicle**  $\infty$  tests creatine Ares 1 launch vehicle Ares 1 upper stage crvstals GS crepe Constellation program creatine GS fabrics long duration space flight iuices crepe lunar exploration RT cotton fibers manned Mars missions creatinine silk RT diseases manned space flight Mars exploration urine cresols GS hydroxyl compounds creation crew observation stations . alcohols USE creativity GS stations . . phenols . workstations creativity . . . cresols . . crew workstations UF creation .. crew observation stations crestatrons RT arts astronauts USE traveling wave tubes education compartments morale cosmonauts crests crews USE waves creep analysis personnel RT ∞ analyzing spacecraft cabins Cretaceous Period stress analysis spacecrews (added June 1989) stress relaxation Mesozoic Era structural analysis **Cretaceous Period** crew procedures (inflight) Cretaceous-Tertiary boundary Operations performed by crews creep buckling geochronology aboard aircraft or spacecraft during flight. Inbuckling GS cludes flight operations as well as spaceborne paleontology . creep buckling Tertiary Period experiment procedures. GS flight operations creep diagrams Cretaceous-Tertiary boundary crew procedures (inflight) GS diagrams (added June 1989) procedures creep diagrams K-T boundary crew procedures (inflight) stress relaxation RT Cenozoic Era display devices stress-strain-time relations cometary collisions

Cretaceous Period

geochronology

extinction

flight crews

spacecrews

tasks

in-flight monitoring

creep properties

GS

mechanical properties

. creep properties

 $\infty$  tests standards subcritical mass

crew procedures (preflight)

DEF Operations performed by crews aboard aircraft or spacecraft and by ground support crews before flight or launching.

GS procedures

crew procedures (preflight)

countdown display devices flight crews flight operations ground handling ground tests in-flight monitoring onboard equipment preflight operations

prelaunch tests spacecraft control spacecrews tasks

∞ tests

The number of people in a crew.

flight crews

crew stations

USE crew workstations

crew workstations

crew stations GS stations

. workstations

.. crew workstations

. . . crew experiment stations

. . crew observation stations

astronauts compartments cosmonauts

helmet mounted displays

personnel spacecraft cabins spacecrews

crews

personnel GS

. crews

. . flight crews . . spacecrews

RT astronauts

cosmonauts

crew experiment stations crew observation stations crew workstations

flight nurses pilots (personnel)

crickets

GS animals

. invertebrates

. . arthropods . . . insects

. . . . crickets

crime

GS crime

> . air piracy terrorism

RT law (jurisprudence)

police regulations security social factors surveillance violence

crimping

USE folding

### criteria

DEF The minimum standards or limits on which judgments may be based.

criteria GS

. structural design criteria

evaluation figure of merit ∞ measures

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 RT 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

RT light (visible radiation) resonant frequencies

critical loading

(LIMITED TO FORCE LOADS) SN

ÚF critical stress GS loads (forces)

critical loading stresses

. critical loading

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

critical Mach number USE critical velocity

critical mass

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

GS mass

. critical mass

Mach number

RT nuclear fission nuclear fuel burnup nuclear reactions plasma core reactors critical path method

network analysis

. critical path method

RT ∞ control

dynamic programming

estimating **GERT** 

management methods

 methodology mission planning operations research

∞ paths 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

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.

GS 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

critical velocity USE

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.

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		Large Area Crop Inventory	RT	agriculture
	critical speed		Experiment		alfalfa
GS	rates (per time)		oats		barley
	. critical velocity		orchards		biomass energy production
	velocity . critical velocity		photosynthesis photosynthetically active radiation		citrus trees corn
RT	exhaust velocity		plant diseases		crop calendars
	resonant frequencies		plant stress		crop growth
	Reynolds number		plants (botany)		crop identification
	tip speed		sugar beets		farm crops
			sugar cane		farmlands
Croatia	10.11.1000		thermal resources		frost damage
	ed October 1994)		vineyards		Large Area Crop Inventory
GS	nations . Croatia		wheat		Experiment orchards
RT	Bosnia and Herzegovina	crop id	entification		planting
111	Europe	GS	identifying		sorghum
	Yugoslavia		. crop identification		sunflowers
	3	RT	agriculture		tomatoes
Crocco	method	c	o crops		vineyards
RT	axisymmetric flow		Earth resources evaluation		wheat
	boundary layers		farmlands	0,000	correlation
	compressible flow		ground truth	GS	correlation
	compressible fluids		imaging techniques	as	. cross correlation
	entropy inviscid flow		leaf area index	RT	autocorrelation
0	• methodology		multispectral photography		data correlation
	shock wave propagation		plant diseases		
	steady flow		recognition		coupling
	vorticity		remote sensors	GS	coupling
	•	c	sensors	DT	. cross coupling
Crocco	-Lee theory		sorghum spectral signatures	RT	communication theory couples
RT	boundary layer separation		SPOT (French satellite)		couples coupling circuits
	continuity equation		sunflowers		microwave coupling
	gas flow		timber identification		optical coupling
	inviscid flow mass flow		vegetative index		radio frequency interference
	multiphase flow	!	venteries		
	reattached flow		ventories Numerical estimates of vegetable,	cross fa	
	separated flow		d other commercial farm products based	USE	geological faults
0	• theories		analysis of photography or imagery from	cross f	low
			or satellites made during periodic passes		A flow going across another flow, as a
Croloy		during t	he growth cycle.		se flow over a wing.
GS	alloys	GS	inventories	GS	fluid flow
	. iron alloys		crop inventories		. cross flow
	steels	RT	agriculture		aerodynamic characteristics
	Croloy		AgRISTARS project	۰	∞ flow
cron ca	llendars		farm crops farmlands		flow characteristics flow geometry
	Schedules for the maturation and har-		Large Area Crop Inventory		spanwise blowing
	of seasonal crops.		Experiment		water tunnel tests
-	calendars		leaf area index		water tarmer toole
	. crop calendars		remote sensors	cross p	oolarization
RT ∘	o crops		vegetative index		The component of the electric field
	farm crops	Cron In	ventories by Remote Sensing		normal to the desired polarization com-
	growth	USF	AgRISTARS project	ponent.	
	scheduling seasons		•	GS	polarization (waves) . cross polarization
	Seasons	crop vi	-	RT	optical coupling
crop du	ıstina	RT	agriculture	111	optical properties
	The application of fungicides or insec-		alfalfa		polarized electromagnetic radiation
	n powder form to a crop, usually from a		barley blight		polarons
low flyin	g aircraft.		citrus trees		rotation
GS	spraying		farm crops		
	crop dusting		farmlands		elaxation
RT	aerosols		genetically modified plants	RT	masers ∞ relaxation
	agricultural aircraft		irrigation	0	rutile
	agriculture dispersions		normalized difference vegetation		spin-spin coupling
	farm crops		index		op op ocupg
	pesticides		oats orchards	∞ cross s	sections
	powder (particles)		phototropism	SN	(USE OF A MORE SPECIFIC TERM IS
	,		plant diseases		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)
crop gr	owth		plant stress	DEF	Measures of the effectiveness of par-
ĠS	growth		plants (botany)		processes expressed either as areas
	. vegetation growth		sugar beets		tric cross sections) which would produce
DT	crop growth		sugar cane		erved results, or as ratios.
RT	agriculture		thermal resources	RT	absorption cross sections
	alfalfa		vegetation growth		airfoil profiles area
	barley blight		viability		area atomic collisions
	citrus trees		vineyards wheat		collision parameters
	corn		wiicat		distribution (property)
0	∘ crops	croplan			drawings
	Earth resources	USE	farmlands		geometry
	farm crops	∞ crops			gradients
	farmlands	∞ crops SN	(USE OF A MORE SPECIFIC TERM IS		ionization cross sections
	germination	014	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		mean free path
	grasslands		LISTED BELOW)		neutron cross sections

planforms . CRRES (satellite) grinding (comminution) radar cross sections chemical clouds scattering cross sections chemical release modules crustal dynamics shapes Earth ionosphere USE Earth crust stopping power Earth magnetosphere geodynamics extraterrestrial radiation surveys crustal fractures two dimensional bodies orbital space tests radiation effects GS fracturing crustal fractures crossbedding (geology) space plasmas geology Earth crust GS spaceborne experiments crossbedding (geology) Earth movements RT landforms Earth surface crucibles earthquake resistance rocks  $RT \, \infty \, containers$ earthquakes strata stratification heating equipment geodynamics geological faults stratigraphy microseisms cruciform wings crossed field amplifiers P waves GS airfoils GS amplifiers S waves . wings . microwave amplifiers San Andreas Fault . cruciform wings ... crossed field amplifiers seismic waves fixed wings microwave equipment seismology low aspect ratio wings shatter cones microwave amplifiers crossed field amplifiers shock loads electron tubes shock waves crude oil magnetrons soil mechanics UF petroleum traveling wave tubes surface waves fuels . chemical fuels crossed field guns crusts . . hydrocarbon fuels RT electron guns crusts . . . fossil fuels . lunar crust ∞ guns . . . . crude oil plasma control . planetary crusts geophysical fluids . Earth crust plasma guns . crude oil plasma jets lunar mantle oils planetary mantles . crude oil crossed fields resources RT electric fields cryochemistry . Earth resources field theory (physics) magnetic fields The study of chemical phenomena in . . fossil fuels very low temperature environment. . . crude oil magnetrons physical chemistry GS RT carbonaceous materials plasma control cryochemistry deposits . waveguides RT ∞ chemistry energy policy fuel production cryogenic equipment crossings cryogenics low temperature physics offshore energy sources oil exploration oil fields crossings GS chiasms bridges (structures) cryocycle principle petroleum products RT cryopumping spacecraft power supplies crossovers reserves intersections underwater resources pipelines waxes cryodeposits ramps (structures) GS deposits crosslinking cryodeposits cruise missiles crosslinking coatings GS Guided missiles, the major portion of . vulcanizing ∞ 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 RT addition resins cryogenics coupled modes cryogenic computer storage
GS computer components
. computer storage devices curina propulsive forces to balance drag. ∞ joining GS missiles netting (materials/structures) . surface to surface missiles phenolic epoxy resins . . cryogenic computer storage . . cruise missiles RT ∞ cryogenic storage . . . Navaho missile crossovers cryotrons . . Tomahawk missiles RT bridges (structures) ∞ equipment antiship missiles superconductors (materials) crossings terrain following intersections cryogenic cooling crosstalk DEF Use of cryogenic fluids to reach temcruising flight DEF Electrical disturbances in a communiperatures near absolute zero. RT coasting flight cation channel as a result of coupling with other cooling ∞ flight communication channels. . cryogenic cooling horizontal flight GS electromagnetic interference capillary pumped loops . crosstalk coolers . ionospheric cross modulation cryogenics Crusader aircraft communicating freezing USE F-8 aircraft electromagnetic compatibility heat transfer ∞ interference refrigerating telephony crushers wave diffraction cryogenic equipment comminution RT UF Dewar systems crushing disintegration grinding mills cryochemistry crowding RT ∞ concentration cryogenics ∞ equipment ∞ saturation impactors gravitational wave antennas CRRES (satellite) refrigerating (added April 1993) crushing refrigerating machinery Combined Release and Radiation GS comminution solid cryogens Effects Sat crushing

RT

crushers

disintegration

GS

artificial satellites

. scientific satellites

cryogenic fluid storage

RT cold surfaces

	amus senie atarosa		law tamparatura		
0	∞ cryogenic storage		. low temperature		cryosar
	cryogenic tanks	DT	cryogenic temperature		. solid state devices
	evaporative cooling	RT	absolute zero		semiconductor devices
	fluid management		cold traps		avalanche diodes
	fuel tanks		critical temperature		cryosar
	multilayer insulation		cryogenic fluids		rectifiers
	space storage		cryogenics		. avalanche diodes
0	∞ storage		Curie temperature		cryosar
	storage tanks		solidified gases	RT	Barritt diodes
	thermal insulation		space temperature		computer storage devices
	nie fluide		min using turning		cryogenics
	nic fluids		nic wind tunnels		
GS	•		Wind tunnels employing a cryogenic	cryosor	
	. cryogenic fluids		ment and utilizing independent control	USE	sorption
	Fermi liquids		ach number, Reynolds number, aeroelas-		havaa
	FLOX		cts, and model-tunnel interactions.	∞ cryosp	
	liquid helium	GS			led June 1996)
	liquid helium 2		. wind tunnels	SN	((USE OF A MORE SPECIFIC TERM IS RECOMMENDED CONSULT THE
	liquid hydrogen		cryogenic wind tunnels		TERMS LISTED BELOW))
	liquid nitrogen	RT	flight simulators	RT	
	liquid oxygen		test chambers		planetary cryospheres
RT	cryogenic tanks				planetary environments
	cryogenic temperature	cryoge	nics		, ,
	cryogenics	DEF	The study of the methods of producing	cryosta	ats
	cryopumping	very lov	w temperatures. The study of the behav-	GS	control equipment
	fluid management	ior of	materials and processes at cryogenic		. regulators
0	∞ fluids	temper			cryostats
	rocket oxidizers	ŔT	absolute zero	RT	controllers
	solid cryogen cooling		cold traps		cryogenics
	solidified gases		cooling		
			cryochemistry		electric switches high temperature tests
cryoge	nic gyroscopes		cryodeposits		•
	gyroscopes		cryogenic cooling		liquid helium
ao	. cryogenic gyroscopes		cryogenic equipment		liquid helium 2
RT	high temperature superconductors		cryogenic equipment		low temperature tests
111	riigir terriperature superconductors				temperature control
cryone	nic magnets		cryogenic rocket propellants		thermostats
	magnets		cryogenic temperature		
as	•		cryopumping	cryotan	
DT	. cryogenic magnets		cryosar		led August 2003)
RT	high temperature superconductors		cryostats	USE	cryogenic tanks
	superconducting magnets		cryotrons		
051000	nia raakat propallanta		Fermi liquids	cryotra	
	nic rocket propellants		high temperature superconductors	GS	trapping
	Rocket fuels, oxidizers, or propulsion		Joule-Thomson effect		. cryotrapping
	hich are liquid only at very low tempera-		liquefied gases	RT	cold traps
tures.	H		low temperature		
GS	propellants		low temperature physics	cryotro	
	. rocket propellants		refrigerating	DEF	Devices based upon the principle that
	liquid rocket propellants		solid cryogen cooling	superco	anductivity established at temperature
	cryogenic rocket propellants		solid cryogens	near ab	solute zero is destroyed by the applica
RT	cryogenics		solid nitrogen		a magnetic field.
	endothermic fuels		solidified gases	GS	electronic equipment
	fluid management		superconducting power transmission		. solid state devices
	gaseous rocket propellants		superconductivity		cryotrons
	gelled rocket propellants		thermoelectric cooling		switches
	high energy fuels		thermomagnetic cooling		. electric switches
	high energy propellants		thermomagnetic cooling		cryotrons
	hybrid propellants	cryolite	9	RT	cryogenic computer storage
	hydrogen fuels	GS	aluminum compounds		cryogenics
	hypergolic rocket propellants	ao	. cryolite		superconductivity
	liquefied gases				
	liquid hydrogen		halogen compounds . fluorine compounds		superconductors (materials)
	liquid oxygen		fluorides	crypto	granhy
	RL-10 engines				The science of preparing messages in
	slush		cryolite fluoro compounds		which cannot be read by those not priv
	space storage		cryolite		ecrets of the form.
	storable propellants				cryptography
	and proposition		. halides	GS	. quantum cryptography
∞ crvoae	nic storage		fluorides	ОТ	
SN	(USE OF A MORE SPECIFIC TERM IS		cryolite	HI 4	∞ codes
0.1	RECOMMENDEDCONSULT THE TERMS		minerals		coding
	LISTED BELOW)		cryolite		computer information security
RT	cryodeposits		sodium compounds		decoding
	cryogenic computer storage		. cryolite		information theory
	cryogenic fluid storage	RT	aluminum		message processing
					steganography
	nic tanks	cryopu			
	ed August 2003)		The process of removing gas from a		defects
	Containers or other structures de-		by condensing it on a surface main-		Departure from the regular arrangmen
	to hold cryogenic materials.		at very low temperatures.		s in the ideal crystal lattice.
UF		RT	cryocycle principle	UF	lattice imperfections
GS	tanks (containers)		cryogenic fluids		stacking faults
	. cryogenic tanks		cryogenics	GS	defects
	cryogenic fluid storage		∞ pumping		. crystal defects
RT	cryogeriic iidid storage				crystal dislocations
RT			vacuum pumps		
RT	cryogenic fluids		vacuum pumps		
RT	cryogenic fluids space storage	crvosa			edge dislocations
RT	cryogenic fluids	<b>cryosa</b> GS	r		edge dislocations screw dislocations
	cryogenic fluids space storage storage tanks	<b>cryosa</b> GS	r electronic equipment		edge dislocations screw dislocations point defects
cryoge	cryogenic fluids space storage storage tanks nic temperature		r electronic equipment . diodes		edge dislocations screw dislocations point defects vacancies (crystal defects)
	cryogenic fluids space storage storage tanks		r electronic equipment		edge dislocations screw dislocations point defects

RT crystallography crystal morphology doped crystals embedded atom method crystallization fiber optics holes (electron deficiencies) crystallography geometrical optics crystals impurities ∞ ontics interstitials doped crystals phase matching float zones photorefractivity lattice vibrations mechanical twinning inoculation physical optics order-disorder transformations laser deposition pinning mechanical twinning crystal oscillators polygonization melts (crystal growth) GS crystals stacking fault energy metalorganic chemical vapor . crystal oscillators deposition stacks . . piezoelectric crystals surface defects ∞ microgravity applications oscillators nanostructure growth trapping . crystal oscillators twinning netting (materials/structures) . piezoelectric crystals nucleation electrical properties polygonization crystal dislocations frequency control pulsed laser deposition rapid quenching (metallurgy) DEF Types of lattice imperfections whose frequency stability existence in metals is postulated in order to oscillations account for the phenomenon of crystal growth space processing piezoelectricity and of slip, particularly for the low value of shear twinning stress required to initiate slip. vapor deposition crystal rectifiers GS defects UF silicon rectifiers . crystal defects crystal lattices GS electronic equipment .. crystal dislocations DEF Three-dimensional, recurring patterns . diodes ... edge dislocations in which the atoms of crystals are arranged. . . crystal rectifiers . screw dislocations GS crystal lattices . solid state devices dislocations (materials)
. crystal dislocations . close packed lattices . crystal rectifiers . cubic lattices rectifiers . . edge dislocations
. . screw dislocations
RT antiphase boundaries . . body centered cubic lattices . . face centered cubic lattices crystal rectifiers RT current converters (AC to DC) superlattices semiconductor devices antiphase boundaries fatigue (materials) atomic structure Bravais crystals grain boundaries crystal structure pinning (AGGLOMERATIONS OF CRYSTALS--EXCLUDES CRYSTAL LATTICES) crystal structure SN point defects Brillouin zones chemical bonds Portevin-le Chatelier effect GS superlattices coordination number . Widmanstatten structure crystal field theory superplasticity RT Abrikosov theory surface defects crystal morphology allotropy crystallography anisotropy crystal field splitting crystals antiphase boundaries USE crystal field theory doping (materials) Bravais crystals epitaxy clathrates crystal field theory geometry coordination number (added January 1993) UF crystal field splitting graphoepitaxy crystal morphology hexagonal cells crystallinity crystal fields ionic crystals crystallites GS field theory (physics) Ising model crystals . crystal field theory isomorphism doped crystals crystal lattices Kossel pattern enantiomers electric fields lattice energy epitaxy metal ions lattice parameters ferroelasticity lattice vibrations graphoepitaxy crystal fields lattices interstitials USE crystal field theory Laue method isomorphism Laves phases isotropy crystal filters metal crystals Laves phases electromagnetic wave filters . bandpass filters . . crystal filters metallography liquid phase epitaxy molecular chains mechanical twinning molecular structure metal crystals . electric filters Mossbauer effect microstructure . crystal filters order-disorder transformations molecular dynamics RT bandstop filters particle in cell technique nanocrystals filters Patterson map nanostructure (characteristics) intermediate frequency amplifiers polymorphism order-disorder transformations radio equipment rapid quenching (metallurgy) packing density radio filters single crystals Patterson map tunable filters synthetic metals phonons ultrapure metals polycrystals crystal growth polymorphism GS growth crystal morphology rapid quenching (metallurgy) (added October 2002)
DEF Characterization of a crystal by the . crystal growth spherulites . . Czochralski method ∞ structures . . directional solidification (crystals) shape and relative angular position of its faces. morphology
. crystal morphology
crystal growth
crystal lattices superlattices . . epitaxy twinning . atomic layer epitaxy vapor phase epitaxy . . . electroepitaxy . liquid phase epitaxy crystal surfaces . . . molecular beam epitaxy crystal structure GS solid surfaces . vapor phase epitaxy crystal surfaces . crystal surfaces atomic force microscopy . . hydrothermal crystal growth crystallography protein crystal growth crystals crystal morphology . . traveling solvent method shapes metal surfaces Verneuil process surface layers Aitken nuclei crystal optics ∞ surfaces Bravais crystals aberration Bridgman method acousto-optics

Bragg cells

diffraction

buoyancy-driven flow

containerless melts

crystallinity

RT amorphous materials

	crystal structure		. quartz crystals		culture media
	Ph		. single crystals		culture techniques
crystal			. whiskers (crystals)		fertilizers
GS	crystals	RT	anisotropy		planting
	. crystallites		body centered cubic lattices		silviculture
-	spherulites		clathrates		soils
RT	•		containerless melts		tissues (biology)
	microcrystals		crystal growth		
	minerals		crystal lattices		resources
	rosette shapes		crystal morphology	DEF	Archaeological and historical sites.
			crystal structure	RT	archaeology
	lization		crystallography		human beings
UF	devitrification		electroepitaxy		
GS	crystallization		face centered cubic lattices	culture	(social sciences)
	directional solidification (crystals)	~	grains	RT	American Indians
	. melt spinning		isotropy		anthropology
	. recrystallization		packing density		artifacts
RT	agglomeration		phase matching		Eskimos
	concentrating		ruby		ethnic factors
	containerless melts		spherules		governments
	crystal growth				minorities
	demineralizing	CSM			politics
	freezing	USE	command service modules		race factors
	inoculation				races (anthropology)
	liquidus	CT-114	aircraft		regimes
	materials recovery	USE	CL-41 aircraft		social factors
	melts (crystal growth)	002	oz 41 anoran		sociology
	modulation	CTD			sociology
	nucleation	USE	charge transfer devices	culture	modio
		OOL	charge transfer devices		
	Ostwald ripening	Cuba			ed August 2004)
	phase stability (materials)	GS	landforms		Any liquid or solid preparation made
	phase transformations	40	. islands		ally for the growth, storage, or transpor
	precipitation (chemistry)		West Indies		organisms or other types of cells. The
	purification				of media that exists allow for the culturing
	refining		Cuba	of speci	fic microorganisms and cell types, sucl
c	∞ separation		nations	as differ	ential media, selective media, test me
	settling		. Cuba	dia, and	defined media.
	solid state	RT	Caribbean region	GS	culture techniques
	solidification		Caribbean Sea		. culture media
	sublimation			RT	cell culturing
	submarine hydrothermal vents	cubane			cells (biology)
	supercooling	GS	organic compounds		clone cells
	supersaturation		. hydrocarbons		cloning (biology)
	zone melting		cubane		cultivation
	20.10 1.1019				cultured cells
crvstal	lography		mathematics)		microbiology
RT		GS	geometry		organ culturing
	crystal defects		. Euclidean geometry		tissue culturing
	crystal growth		polyhedrons		tissue engineering
	crystal lattices		cubes (mathematics)		tissue engineering
	crystal morphology	RT	blocks	culture	techniques
	crystals				culture techniques
	Debye-Scherrer method	cubic e	quations	GS	. cell culturing
	directivity	GS	algebra		S .
			. nonlinear equations		. culture media
	isotropy		cubic equations		. organ culturing
	lamella (metallurgy)		analysis (mathematics)	DT	. tissue culturing
	lattice parameters		real variables	RT	Chlorella
	Laue method		nonlinear equations		clone cells
	metallography		cubic equations		cloning (biology)
c	∞ metallurgy		field theory (algebra)		cultivation
	microbeams		. cubic equations		cultured cells
	microstructure	RT ∝	equations		in vitro methods and tests
	mineralogy	111	polynomials		in vivo methods and tests
	neutron diffraction		polynomials		microbiology
	order-disorder transformations	cubic la	attices		stem cells
С	∞ orientation	GS	crystal lattices		tissue engineering
	radiography	ao	. cubic lattices		
c	solid state physics		body centered cubic lattices	culture	d cells
	x ray analysis		•	(adde	ed August 2004)
	x ray diffraction	RT	face centered cubic lattices Laves phases		Cells propagated in vitro in specia
	.,	nı	Laves priases		onducive to their growth. Cultured cell
crystal	s	cues			d to study developmental, morphologic
-	crystals		01100		ic, physiologic, and genetic processes
0.0	. bicrystals	GS	cues	among	
	. boules	ОТ	zeitgebers	UF	cell lines
	. Bravais crystals	RT	auditory signals	GS	
	. creatine		visual signals	do	cells (biology) . cultured cells
	. crystal oscillators	cuestas		D-	clone cells
	piezoelectric crystals	USE	ridges	RT	biotechnology
	. crystallites				cell culturing
	spherulites	cuffs			cloning (biology)
	. dendritic crystals	RT	clothing		culture media
	. doped crystals		seals (stoppers)		culture techniques
	. ionic crystals				in vitro methods and tests
	. liquid crystals	cultivat	ion		microbiology
	. metal crystals	GS	cultivation		organ culturing
	. microcrystals		. plowing		tissue culturing
	. mixed crystals	RT	ammonia		
				cumula	tive damage
	. nanocrystals . polycrystals		ammonium nitrates ashes	<b>cumula</b> GS	tive damage damage

RT	. cumulative damage component reliability		above which the material becomes tially nonmagnetic.		radioactive isotopes transuranium elements
	defects		magnetic properties		curium
	degradation		Curie temperature		curium isotopes
	durability		temperature		curium 244
	failure		Curie temperature		metals
	operational hazards	RT	cryogenic temperature		. actinide series
	reliability		diamagnetism		transuranium elements
	structural reliability		electrets		curium
	wear tests		ferroelectricity		curium isotopes
oumulo	nimbus clouds		ferromagnetism		curium 244
	A cumuliform cloud type: heavy and	Curio-M	eiss law	ourium.	compounds
	with considerable vertical extent in the		ferromagnetism		actinide series compounds
	massive towers. This form frequently	• • • • • • • • • • • • • • • • • • • •	magnetic permeability	ao	. curium compounds
	tops in the shape of an anvil or massive		magnetic properties	RT o	∞ chemical compounds
	t is frequently accompanied by lightning,		paramagnetism		∞ Group 3B compounds
thunder	, and sometimes hail; occasionally pro-				·
	a tornado or a watersprout.	curing			isotopes
GS	clouds (meteorology)	RT	alfalfa	GS	chemical elements
	. convection clouds		autoclaving		. actinide series
	cumulonimbus clouds anvil clouds		citrus trees corn		transuranium elements
RT	cumulus clouds		crosslinking		curiumcurium isotopes
nı	nimbostratus clouds		degradation		curium 1sotopes
	precipitation (meteorology)		drying		curium 244
	thunderstorms		farm crops		. nuclides
	tornadoes		glass transition temperature		isotopes
			oats		radioactive isotopes
	s clouds		orchards		transuranium elements
	Clouds in the form of individual de-		preserving		curium
	domes or towers which are usually		resin transfer molding		curium isotopes
	and well defined. These clouds develop	~	setting		curium 242
	y in the form of rising mounds. The sunlit e mostly brilliantly white; their bases are		vulcanizing		curium 244
	y dark and nearly horizontal.		weathering		metals
	clouds (meteorology)	curium			. actinide series transuranium elements
40	. convection clouds		chemical elements		curium
	cumulus clouds		. actinide series		curium isotopes
	anvil clouds		transuranium elements		curium 242
RT	cumulonimbus clouds		curium		curium 244
	stratocumulus clouds		curium isotopes		
0	Madala		curium 242		aterials)
	Module ed May 2008)		curium 244	RT	dimensional stability
	A permanent observation and control		. nuclides		folding
	for the International Space Station de-		isotopes radioactive isotopes	c	∞ materials
	by the European Space Agency. The		transuranium elements		textures
	s windows allow line-of-sight monitoring		curium	curl (ve	ectors)
	de activities, including spacewalks, dock-		curium isotopes		A vector operation upon a vector field
ing ope	rations and exterior equipment surveys.		curium 242		epresents the rotation of the field, related
GS	modules		curium 244		irculation of the field at each point.
	. space station modules		metals	GS	analysis (mathematics)
БТ	_ Cupola Module		. actinide series		. calculus
RT	European Space Agency		transuranium elements		. vector analysis
	International Space Station		curium		curl (vectors)
	spacecraft modules		curium isotopes		Vorticity
∞ cupola	s		curium 242 curium 244		. real variables vector analysis
SN	(USE OF A MORE SPECIFIC TERM IS		Cullulli 244		curl (vectors)
	RECOMMENDEDCONSULT THE TERMS	curium	242		vorticity
RT	LISTED BELOW) domes (structural forms)	GS	chemical elements		geometry
	furnaces		. actinide series		. vector analysis
	gun turrets		transuranium elements		curl (vectors)
			curium		vorticity
cuprate			curium isotopes		
	ed April 1999)		curium 242		algebra
GS	copper compounds		. nuclides	GS	algebra
DT	. cuprates		isotopes radioactive isotopes	RT a	. current algebra ∞ mathematics
RT	BSCCO superconductors copper oxides		transuranium elements	111 5	nuclear physics
	YBCO superconductors		curium		vector currents
	1200 dapordornadotoro		curium isotopes		
curare			curium 242	current	t amplifiers
GS	poisons		metals	GS	amplifiers
	curare		. actinide series		. current amplifiers
RT	alkaloids		transuranium elements		photomultiplier tubes
	anticholinergics		curium		frequency modulation
۰	o poisoning		curium isotopes	D.T.	photomultipliers
	toxicology		curium 242	RT	transistor amplifiers
011800		curium	244		voltage amplifiers
cures RT	diseases		chemical elements	Current	converters (AC to DC)
nı.	drugs	45	. actinide series	RT	alternating current
	first aid		transuranium elements		∞ converters
	healing		curium		crystal rectifiers
	therapy		curium isotopes		direct current
			curium 244		electric current
	emperature		. nuclides		inverted converters (DC to AC)
DEF	The temperature in a ferromagnetic		isotopes		rectifiers

	silicon controlled rectifiers thyratrons	RT ∝	aircraft		vertical takeoff aircraft
	uiyiauons	curvatu	re	cushion	is
current	density	GS	geometry	RT	air cushion landing systems
GS	rates (per time)		curvature		bumpers
	. flux density	RT	camber		couches
	current density	~	curves		ground effect (aerodynamics)
RT	critical current		curves (geometry)		hydraulic equipment
	electric current		differential geometry	~	pad
	electrolysis		flexing		pneumatic equipment
	electroplating	~	profiles		seats
	pinning		shapes		shock absorbers vibration isolators
current	distribution		zero force curves		VIDIATION ISOLATORS
GS	distribution (property)	curve fi	ttina	∞ cusps	
0.0	. current distribution	RT	data compression	SN	(USE OF A MORE SPECIFIC TERM IS
RT	charge distribution		data smoothing		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)
	electron distribution		forecasting	RT	cusps (landforms)
~	hole distribution		least squares method		cusps (mathematics)
	hole distribution (electronics)		minimax technique		double cusps
	ion distribution		saddle points		polar cusps
	magnetic annular arc neutral currents		statistical distributions statistical tests	cuene (	landforms)
	neutral currents		time series analysis		landforms
current	regulators		ame conce analysis	0.0	. cusps (landforms)
UF	current stabilizers	curved	beams	RT	beaches
GS	control equipment	GS	structural members		coasts
	. regulators		. beams (supports)	~	cusps
	current regulators		curved beams		topography
RT	circuit protection	RT	camber	e	mathamatica)
	controllers		I beams	GS Cusps (	mathematics) geometry
	electric current	curved	nanole	GS	. cusps (mathematics)
	electric equipment electric switches	GS	panels		double cusps
	electronic control	do	. curved panels	RT	curves (geometry)
	limiter circuits	RT	contours		cusps
	power factor controllers		shapes		epicycloids
	power supply circuits		wing panels		maxima
	switching circuits				minima
	transmission loss	curved s		auatam	integrated circuits
	voltage regulators	USE	contours	USE	integrated circuits application specific integrated
current	ahaata		shapes surfaces	OOL	circuits
RT	antennas		surfaces		
	electric current	∞ curves			us perception
	magnetic flux	SN	(USE OF A MORE SPECIFIC TERM IS	USE	touch
	magnetic islands	0.1	RECOMMENDEDCONSULT THE TERMS		
00	sheets	RT	LISTED BELOW) curvature	∞ cut-off	(LIGE OF A MODE OPEOUE)O TERM IO
		П	graphs (charts)	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS
	stabilizers		learning curves		LISTED BELOW)
USE	current regulators		light curve		An act or instance of shutting some
	_		toroids		i; specifically, in rocketry, an act or in of shutting off the propellant flow in
∞ <b>current</b> SN	(USE OF A MORE SPECIFIC TERM IS		trajectories		or stopping the combustion of the pro
SIN	RECOMMENDEDCONSULT THE TERMS		zero force curves	pellant.	or stopping the combustion of the pro
DT	LISTED BELOW)				burnout
RT	air currents air flow		(geometry)		engine failure
	beam currents	GS	geometry		machining
	circulation		. curves (geometry) catenaries		
	coastal currents		cycloids	cut-outs	
	electric current		epicycloids	USE	openings
	external surface currents		S curves	cutters	
	fluid flow		Gompertz curves	SN	(EXCLUDES SHIPS)
	ocean currents	RT	analytic geometry	GS	cutters
	water currents	~	arcs		. blades (cutters)
	(		chords (geometry)		razor blades
USE	(oceanography) water currents		circles (geometry)		. drill bits
USE	water currents		curvature		. drills
curtains			cusps (mathematics) differential geometry		. saws
	barriers		Euclidean geometry	RT	. shears
	dividers		geodesic lines	ΠI	cutting dies
	doors	~	helices		laser cutting
	entrances		homotopy theory		machine tools
	openings		inflection points		scrapers
00	partitions		line shape		taps
	partitions (structures)		manifolds (mathematics)		tools
~	SCREENS		menisci		
	separators walls		segments spirals	cutting	outting
	windows (apertures)	×	ορπαίο	GS	cutting . blanking (cutting)
		curviline	ar coordinates		. laser cutting
Curtiss	C-46 aircraft		spherical coordinates		. metal cutting
	C-46 aircraft				. milling (machining)
		Cushio	ncraft ground effect machine		. planing
	-Wright aircraft	GS	ground effect machines		. scarfing
GS	Curtiss-Wright aircraft		. Cushioncraft ground effect		. shearing
	. C-46 aircraft		machine		. slicing
	. X-19 aircraft	RT	hovering		. spark machining

RT	abrasion	RT ∞ aircraft	cyanurates
	chipping	CVD (denseition)	pyrazines
	comminution	CVD (deposition) USE vapor deposition	. azines
	cutters	OOL Vapor acposition	cyanurates
	drilling flaking	CVI (fabrication)	
	forming techniques	USE chemical vapor infiltration	cyanuric acid
	fracturing	CVM (solid state)	GS acids . <b>cyanuric acid</b>
	grinding (material removal)	(added July 1997)	hydroxyl compounds
	grooving	USE cluster variation method	. alcohols
	machining	014/	triols
	micromachining 	CW radar USE continuous wave radar	cyanuric acid
	peeling	OSE Continuous wave radai	organic compounds . cyclic compounds
	perforating piercing	cyanamides	heterocyclic compounds
۰	separation	GS nitrogen compounds	azines
	shredding	. amides	cyanuric acid
	splitting	<b>cyanamides</b> . cyano compounds	pyrazines
	torches	cyanamides	. azines <b>cyanuric acid</b>
		•	Sydifatio dold
		cyanates	Cuber 74 computer
CV-2 ai		RT esters urethanes	Cyber 74 computer USE CDC Cyber 74 computer
USE	DHC 4 aircraft	urchanos	OOL ODO OYDER 14 COMPARCI
		cyanide emission	
01/7-		USE CN emission	cybernetics  DEF The study of methods of control and
CV-7 ai USE	rcraπ DHC 5 aircraft	cyanides	communication which are common to living or-
USL	DIIC 3 all clait	GS cyanides	ganisms and machines.
		. acetonitrile	RT adaptive control
CV-340	aircraft	. cyanogen	automata theory
UF	Convair 340 aircraft	. iron cyanides	∞ automation biomimetics
GS	commercial aircraft	. malononitrile . succinonitrile	bionics
	. CV-340 aircraft	RT cyano compounds	communication theory
	General Dynamics aircraft . CV-340 aircraft	cyanoacetylene	computers
	monoplanes	nitrogen compounds	∞ control
	. CV-340 aircraft	avena asmanunda	control systems design
	passenger aircraft	cyano compounds GS nitrogen compounds	controllers depersonalization
	. CV-340 aircraft	. cyano compounds	feedback
HI∘	∘ aircraft	cyanamides	human factors engineering
		cyanoacetylene	information theory
CV 440	aircraft	isocyanates	machine learning
UF	Convair 440 aircraft	diisocyanates fulminates	man machine systems management
01	Metropolitan aircraft	RT ∞ chemical compounds	model reference adaptive control
GS	commercial aircraft	cyanides	neural nets
	. CV-440 aircraft	nitriles	psychology
	General Dynamics aircraft		∞ systems
	. CV-440 aircraft monoplanes	cyanoacetylene GS nitrogen compounds	systems engineering
	. CV-440 aircraft	. cyano compounds	
	passenger aircraft	cyanoacetylene	cycles
	. CV-440 aircraft	organic compounds	DEF The complete sequences of values of
RT •	∘ aircraft	. hydrocarbons	a periodic quantity that occur during a period.  Used for cycling and periodic processes.
		<b>cyanoacetylene</b> RT acetylene	UF cycling
01/ 000	aircraft	cyanides	periodic processes
UF	Convair 880 aircraft	5,5	GS cycles
GS	commercial aircraft	cyanocobalamin	. activity cycles (biology)
	. CV-880 aircraft	UF <i>vitamin B 12</i> GS organic compounds	. carbon cycle . hydrological cycle
	General Dynamics aircraft	GS organic compounds . cyclic compounds	. solar cycles
	. CV-880 aircraft	heterocyclic compounds	sunspot cycle
	jet aircraft . CV-880 aircraft	cyanocobalamin	. stress cycles
	monoplanes	vitamins	. thermodynamic cycles
	CV-880 aircraft	. cyanocobalamin	Brayton cycle Carnot cycle
	passenger aircraft	cyanogen	. Otto cycle
	. CV-880 aircraft	GS cyanides	Rankine cycle
	transport aircraft . CV-880 aircraft	. cyanogen	Stirling cycle
RT 。	o aircraft		. photoperiod
		<i>Cyanophyta</i> USE <b>blue green algae</b>	. work-rest cycle RT alternations
		OOL blue green algae	amplitudes
	aircraft	cyanosis	annual variations
UF	Convair 990 aircraft	GS diseases	cyclic loads
GS	commercial aircraft	. cyanosis	diurnal variations
	. CV-990 aircraft General Dynamics aircraft	RT blood circulation heart function	fatigue (materials) frequency distribution
	. CV-990 aircraft	Heart Iunction	harmonics
	jet aircraft	cyanurates	intermittency
	. turbofan aircraft	GS esters	long term effects
	CV-990 aircraft	. cyanurates	periodic variations ∞ phases
	monoplanes . CV-990 aircraft	organic compounds . cyclic compounds	∞ pnases reciprocation
	passenger aircraft	heterocyclic compounds	rhythm (biology)
	CV-990 aircraft	azines	starting

superharmonics	cyanurates		durene
	cyanuric acid		indene
cyclic accelerators	meclizine		menthol
GS particle accelerators	methylene blue		naphthalene
. cyclic accelerators	phenothiazines		naphthenes
betatrons	azoles		polycyclic aromatic hydrocarbons
synchrocyclotrons synchrotrons	acetazolamide	RI	alkynes
bevatron	oxazole	cyclic I	nade
storage rings (particle	pyrroles	SN	(LIMITED TO FORCE LOADS)
accelerators)	carbazoles	GS	loads (forces)
RT ∞ accelerators	azulene	0.0	. dynamic loads
111 ~ accelerators	bioflavonoids		cyclic loads
cyclic adenosine monophosphate	biotin carnitine	RT	cycles
USE cyclic AMP	cyanocobalamin		Elber equation
•	cytidylic acid		inelastic stress
cyclic AMP	dimenhydrinate		S-N diagrams
DEF A nucleotide which is implicated as an	endrin		stress cycles
intracellular messenger in a wide variety of	ethylene oxide		structural design criteria
cellular processes. Prototypically it acts as a	folic acid		transient loads
molecular transducer of nonsteroid signals from	furans		variable amplitude loading
outside the cell to relevant cellular enzymes by a	tetrahydrofuran		vibration
series of reactions. Used for cyclic adenosine	guanethidine		vibratory loads
monophosphate.	HMX	avalina.	
UF cyclic adenosine monophosphate	nicotinic acid	cycling	ovelee
GS organic compounds	phthalocyanin	USE	cycles
. coenzymes	phylloquinone	cycload	ddition
cyclic AMP . cyclic compounds	piperidine		led June 1998)
heterocyclic compounds	promethazine		Pericyclic chemical reaction in which
adenosines	purines		ated molecules combine to form a cyclic
cyclic AMP	adenines		and under the influence of heat or light.
. nucleotides	xanthines		chemical reactions
adenosines	caffeine		. cycloaddition
cyclic AMP	guanines		Diels-Alder reactions
phosphorus compounds	uric acid pyridines	RT	cyclic compounds
. phosphates	pyridoxine		photochemical reactions
cyclic AMP	pyrimidines		polymerization
RT adenosine monophosphate	alloxan		synthesis (chemistry)
adrenergics	thymidine		
alkynes	thymine	cyclobi	
amino acids	uracil	GS	organic compounds
cholinergics	indoles		. cyclic compounds cyclic hydrocarbons
guanines	RDX		cyclobutane
pharmacology	retinene		. hydrocarbons
P	riboflavin		cyclic hydrocarbons
cyclic compounds	tetracyclines		cyclobutane
DEF In organic chemistry, compounds containing a ring of atoms.	tetrazoles		
GS organic compounds	thiamine	cycloge	enesis
. cyclic compounds	thiazine (trademark)	RT	arc clouds
cyclic hydrocarbons	thiophenes		atmospheric circulation
anthracene	tocopherol		atmospheric pressure
benzene	trimethadione		cyclones
chlorobenzenes	tryptamines		hurricanes
colchicine	tryptophan melatonin		low pressure
cyclobutane	serotonin		storms (meteorology)
cyclohexane	imidazoles	ovoloh	ovano
cyclopropane	rhodamine	cyclohe	organic compounds
durene	RT ∞ chemical compounds	do	. cyclic compounds
indene	cycloaddition		cyclic compounds cyclic hydrocarbons
menthol	organic chemistry		cyclohexane
naphthalene	<b>9 7</b>		. hydrocarbons
naphthenes	analla brodon e di con		cyclic hydrocarbons
polycyclic aromatic hydrocarbons	cyclic hydrocarbons		cyclohexane
heterocyclic compounds	GS organic compounds	RT	benzene
acriflavine	. cyclic compounds		hexenes
adenosines	cyclic hydrocarbons anthracene		hydrogenation
adenosine diphosphate			-
adenosine monophosphate adenosine triphosphate	benzene chlorobenzenes	cycloid	ls
cyclic AMP	colchicine	GS	geometry
alkaloids	cyclobutane		. curves (geometry)
atropine	cyclobularie cyclohexane		. cycloids
betaines	cyclopropane		. Euclidean geometry
caffeine	durene		analytic geometry
colchicine	indene		cycloids
ergotamine	menthol	ovoloni	96
hyoscine	naphthalene	<b>cyclon</b> e SN	(METEOROLOGICALEXCLUDES
lysergine	naphthenes	SIN	(METEOROLOGICALEXCLUDES EQUIPMENT)
morphine	polycyclic aromatic hydrocarbons		Areas of low pressure with a closed
nicotinamide	. hydrocarbons		on that rotate counterclockwise in the
nicotine	cyclic hydrocarbons		n Hemisphere and clockwise in the
pilocarpine	anthracene		rn Hemisphere.
reserpine	benzene		storms
strychnine	chlorobenzenes		. storms (meteorology)
tropyl compounds	colchicine		cyclones
anisole	cyclobutane		hurricanes
ascorbic acid	cyclohexane		Anna hurricane
azines	cyclopropane		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

... cyclopropane

organic compounds

. cyclic compounds

. . cyclic hydrocarbons

. . cyclopropane

. hydrocarbons

. . cyclic hydrocarbons

cyclopropane

propane

### Cyclops plasma accelerator

plasma accelerators

Cyclops plasma accelerator

RT ∞ accelerators plasmas (physics)

cyclotetramethylene tetranitramine

HMX

cyclotrimethylene trinitramine

USE RDX

#### cyclotron frequency

DEF Frequency at which a charged particle orbits in a uniform magnetic field. It depends on the charge to mass ratio of the particle times the magnetic field. While the frequency is independent of the particle energy, Lamor orbit increases with energy.

GS frequencies

cyclotron frequency

charged particles Larmor precession

### cyclotron radiation

DEF The electromagnetic radiation emitted by charged particles as they orbit in a magnetic field. The radiation arises from the centripetal acceleration of the particle as it moves in a circular orbit.

electromagnetic radiation . nonthermal radiation GS

. . cyclotron radiation

. ion cyclotron radiation

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.

resonance

### . cyclotron resonance

. electron cyclotron resonance

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.

avrotrons

GS amplifiers

. microwave amplifiers

cyclotron resonance devices

electron tubes

. vacuum tubes

. . microwave tubes

... cyclotron resonance devices

microwave equipment

. microwave amplifiers

. . cyclotron resonance devices

. microwave tubes

. cyclotron resonance devices

RT cavity resonators

∞ devices

diffraction radiation

electron cyclotron resonance klystrons

millimeter waves power amplifiers traveling wave tubes

cyclotrons

calutrons

GS particle accelerators

cyclotrons

. . geocyclotrons

. . microtrons

. . Oak Ridge isochronous cyclotron

. . omegatrons

. synchrocyclotrons

synchrotrons

### Cygnus constellation

constellations

Cygnus constellation

celestial bodies celestial sphere stars

### ∞ cylinders

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

circular cylinders concentric cylinders cylindrical bodies cylindrical chambers cylindrical shells

drums

drums (containers) elastic cylinders elliptical cylinders

hemisphere cylinder bodies monocoque structures orthotropic cylinders oscillating cylinders plasma cylinders rotating cylinders viscoelastic cylinders

cylindrical afterbodies USE afterbodies cylindrical bodies

### cylindrical antennas

GS antennas

cylindrical antennas

antenna radiation patterns radio equipment

### cylindrical bodies

cylindrical afterbodies cylindroids

symmetrical bodies . bodies of revolution

. . cylindrical bodies

. rotating cylinders

afterbodies Airy function centerbodies

circular cylinders ∞ cylinders

cylindrical coordinates elastic cylinders

elliptical cylinders forebodies fuselages

hemisphere cylinder bodies orthotropic cylinders oscillating cylinders

plasma cylinders plastic bodies rollers

viscoelastic cylinders

### cylindrical chambers

RT brakes (for arresting motion)

∞ chambers

∞ cylinders

### cylindrical coordinates

GS coordinates

### . cylindrical coordinates

astronomical coordinates Cartesian coordinates cylindrical bodies

### cylindrical plasmas

Magnetic self-attraction of parallel electric currents causing constriction of a conducting plasma through which a large current is flowing.

particles

. charged particles

. . energetic particles

. . . plasmas (physics)

. . . . cylindrical plasmas

. corpuscular radiation

. . energetic particles

. . . plasmas (physics) ... cylindrical plasmas

plasma cylinders

. cylindrical plasmas

pinch effect

### cylindrical shells

GS shells (structural forms)

cylindrical shells

circular cylinders circular shells circular tubes concentric cylinders

∞ cylinders elastic cylinders elliptical cylinders metal shells orthotropic cylinders orthotropic shells oscillating cylinders plasma cylinders plastic shells reinforced shells rotating cylinders thin walled shells

## cylindrical tanks

tanks (containers)

cylindrical tanks

viscoelastic cylinders

fuel tanks propellant tanks storage tanks

# cylindrical waves

DEF Waves in which the wave fronts are coaxial cylinders.

axisymmetric flow elastic waves electromagnetic radiation

plane waves spherical waves

## cylindroids

USE cylindrical bodies

### Cyprus

. GS landforms . islands . . Cyprus nations

∞ waves

Cyprus

Greece Mediterranean Sea

### Cyrillid meteoroids

celestial bodies

. meteoroid showers

. Cyrillid meteoroids

. meteoroids

### cysteamine

	bolides		pigments		microscopy
DT	Cyrillid meteoroids	RT	. cytochromes	cytonho	otometry
RT	natural satellites tektites	H I	cytogenesis skin (anatomy)		cytometry
	tertites		Skiii (dildioiiiy)	002	oy.c.mou.y
cystear	nine	cytogei	nesis	cytopla	sm
GS	drugs	GS	cytogenesis	RT	calmodulin
	. antiradiation drugs		. cell division		cells (biology)
	cysteamine		. differentiation (biology)		chloroplasts
	organic compounds		. hematopoiesis		cytogenesis
	amines		. mitosis		endoplasmic reticulum
	cysteamine		. osteogenesis		eosinophils
RT	amino acids	RT ∘	∞ biology		fibroblasts
	proteins		cells (biology)		mitosis
	radiation protection		cytochromes		neutrophils
			cytology		nuclei (cytology)
cystein			cytoplasm		organelles
GS	acids	٥	differentiation		plastids
	. amino acids		genetics		ribosomes
	cysteine		heredity		sarcoplasmic reticulum
	drugs		osteoblasts	Czoch	Republic
	cysteine		physiology		ed December 1995)
	organic compounds	cytolog	n/	GS	nations
	. amino acids	UF	cell physiology	ao	. Czech Republic
	cysteine	RT	animal models	RT	Czechoslovakia
	sulfur compounds . thiols	n i	apoptosis		Europe
	cysteine		biochemistry		Slovakia
RT	proteins		biological diversity		
111	proteins	۰	⇒ biology	Czecho	slovakia
cystic f	ibrosis		blood cell count	GS	nations
GS .	diseases		cell membranes (biology)		. Czechoslovakia
0.0	. fibrosis		cells (biology)	RT	Central Europe
	cystic fibrosis		chromatin		Czech Republic
RT	tissues (biology)		chromosomes		Czechoslovakian space program
	, 527		clone cells		Czechoslovakian spacecraft
cysts			cytogenesis		Europe
GS	cysts		cytometry		Slovakia
	. mucoceles		eukaryotes	C-aaba	olovakian anasa nyawyawa
RT	neoplasms		in vitro methods and tests		slovakian space program ed March 1989)
	tissues (biology)		in vivo methods and tests	GS	programs
	tumors		lysosomes	do	. space programs
			mitochondria		European space programs
cytidyli			mitosis		Czechoslovakian space
GS	acids		monocytes		program
	. cytidylic acid		necrosis	RT	Czechoslovakia
	organic compounds		nuclei (cytology)		020011001010111111
	. cyclic compounds heterocyclic compounds		organelles	Czecho	slovakian spacecraft
	cytidylic acid		plasmolysis	DEF	Spacecraft of Czechosolovakia.
	Cytidylic acid		plastids prokaryotes	RT	Czechoslovakia
cytochr	omes		sarcoplasmic reticulum	0	∘ spacecraft
GS	biopolymers		stem cells		
0.0	. proteins		tissue engineering		alski method
	enzymes		ussue engineering	GS	growth
	cytochromes	cytome	rtry		. crystal growth
	organic compounds		ed February 1990)	DŦ	Czochralski method
	. proteins	ÙF	cytophotometry	HI °	∞ methodology
	. enzymes	RT	cells (biology)		Verneuil process
	cytochromes		cytology		

D layer USE	D region	gases the pa	o-called perfect gases, a mixture of these will have a pressure equal to the sum of rtial pressures that each of the gases		reaction kinetics
D lines			have as a sole component with the same	DAMI	P program
GS	spectra		and temperature, provided there is no		Downrange Antimissile
	. radiation spectra		al interaction.		Measurement Program
	electromagnetic spectra	RI	gas composition		
	line spectra		gas dynamics		
рт	D lines		gas-gas interactions		
RT	absorption spectra		ideal gas	∞ damp	
	emission spectra H lines		partial pressure	SN	
			vapor pressure		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)
	solar spectra			RT	
D region	n	DAMA			dampers (valves)
SN	(ALTITUDE RANGE BETWEEN	USE	demand assignment multiple		nutation dampers
	APPROXIMATELY 50 AND 90 KM)		access		oscillation dampers
UF	D layer				vibration isolators
GS	Earth atmosphere	damag	Δ		
	. upper atmosphere	GS	damage		
	Earth ionosphere	ao	. cumulative damage	damn	ers (valves)
	lower ionosphere		. earthquake damage		s valves
	D region		. fire damage	ac	. butterfly valves
	regions		. flood damage		dampers (valves)
	. D region		. frost damage	RT	
RI	Earth-ionosphere waveguide		impact damage		∞ dampers
D-1 sate	allita		meteoritic damage		gas valves
GS	artificial satellites		rain impact damage		vibration isolators
ao	. French satellites		. proton damage		
	D-1 satellite		radiation damage		
	D-1 Satellite		laser damage		t
D-2 sate	ellites		. storm damage	damp	
UF	D-2B satellite	RT	burnthrough (failure)	DEF	
-	Polaire satellite		corrosion		nces; the dissipation of energy with time. for damping factor, damping in pitch,
	Tournesole satellite		damage assessment		ing in roll, damping in yaw, elastic stability,
GS	artificial satellites		decay		
	. French satellites		decomposition	UF	et damping.
	D-2 satellites		defects	UF	damping factor damping in pitch
	. meteorological satellites		deformation		damping in pilon damping in roll
	D-2 satellites		degradation		damping in yaw
			destruction		elastic stability
D-2B sa			deterioration		jet damping
USE	D-2 satellites		discoloration	GS	
D 550 -			disintegration		. elastic damping
<b>D-558</b> a UF			durability		viscoelastic damping
UF	Douglas D-558 aircraft		fatigue (biology)		. Landau damping
	Skyrocket aircraft		fatigue (materials)		. vibration damping
GS	Skystreak aircraft iet aircraft		fractures (materials)		. viscous damping
do	. D-558 aircraft		hot corrosion		. viscoelastic damping
	McDonnell Douglas aircraft		immobilization		magnetic damping
	. Douglas aircraft		impairment injuries	RT	∞ absorption
	D-558 aircraft		lethality		attenuation
	monoplanes		losses		baffles
	. D-558 aircraft		radiation effects		deceleration
	research vehicles		sabotage		dissipation
	. research aircraft		space weathering		dynamic characteristics
	D-558 aircraft		warpage		dynamic response
	supersonic aircraft		wear		dynamic stability
	D-558 aircraft		weathering		energy absorption
RT ∝	aircraft		3		gyroscope fluids
_					gyroscopic pendulums
	(trademark)		e assessment Estimate of injury or loss to compo-		gyroscopic stability
GS	fabrics		subsystems, or entire systems, as well as		hysteresis
	. Dacron (trademark)		st of repairs or replacement to restore		impedance insulation
	fibers	service			internal friction
	. synthetic fibers		assessments		mechanical impedance
БТ	Dacron (trademark)	do	. damage assessment		mufflers
RT	polyester resins	RT	casts		negative feedback
	reinforcing fibers	111	costs		oscillations
Dactyl			damage		∞ reduction
USE	natural satellites		estimates		∞ resistance
002			maintenance		resonant frequencies
DAD Ex	plorer		recoverability		resonant vibration
USE	Dual Air Density Explorer		replacing		retarding
	• •		spare parts		roll
	(data analysis)		value		sea keeping
USE	data processing				shock absorbers
	data reduction	-1	- H		silencers
	data transmission		e threshold		stability derivatives
Doham	N/	USE	yield point		stopping
Dahome	Benin				subharmonic generators
USE	Dentil	Damko	hler number		suppressors
Dakota i	aircraft		activation energy		time constant
	C-47 aircraft		combustion physics		transfer functions
			diffusion flames		transient oscillations
Dalton I	aw		flame propagation		transient response
DEF	The empirical generalization that for		∞ numbers		vibration isolators

# damping tests

wave interaction	. dark matter	aircraft design
damning factor	RT Alpha Magnetic Spectrometer	drone aircraft
damping factor USE damping	baryons cooling flows (astrophysics)	flight tests flutter
ool damping	cosmology	remotely piloted vehicles
damping in pitch	dark energy	vibration damping
USE damping	galactic evolution	, 3
pitch (inclination)	galactic halos	∞ data
damping in roll	intergalactic media	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS
USE damping	large-scale structure of the universe massive compact halo objects	LISTED BELOW)
	missing mass (astrophysics)	RT analog data
damping in yaw	neutrinos	audio data
USE damping yaw	Population III stars	binary data biomedical data
yuw	universe	censored data (mathematics)
damping tests	weakly interacting massive particles	channels (data transmission)
GS vibration tests	darkening	control data (computers)
. damping tests stroking tests	GS darkening	data acquisition
RT resonance testing	. limb darkening	data base management systems data bases
stability tests	RT darkness	data collection platforms
∞ tests	∞ illumination night	data compression
vibration measurement	visibility	data conversion routines
dampness	•	data converters
USE moisture content	darkness	data correlation data links
	RT color	data management
dams	dark adaptation darkening	data processing
RT ∞ barrages ∞ barriers	diurnal variations	data processing equipment
barriers     flood control	illuminating	data processing terminals
hydroelectricity	illumination	data recorders
reservoirs	light (visible radiation)	data recording data reduction
wharves	night night flights (aircraft)	data retrieval
dangar	optical properties	data sampling
danger USE <b>hazards</b>	shadows	data smoothing
002	zeitgebers	data storage
Danish space program	darkroomo	data systems data transmission
(added August 1990)	darkrooms GS rooms	datum (elevation)
GS programs . space programs	. darkrooms	digital data
European space programs	RT photographic processing	end-to-end data systems
Danish space program	photographic processing equipment	information
RT Denmark	photography	interservice data exchange program  ∞ measurement
dark adaptation	Darkstar unmanned aerial vehicle	metadata
dark adaptation  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 dark adaptation		radar data
RT dark adaptation	Dash helicopter	records
night vision	USE QH-50 helicopter	site data processors
pupillometry	Dassault aircraft	Space Flight Tracking and Data Network
vision	GS Dassault aircraft	statistical analysis
visual pigments	. Mirage aircraft	statistical tests
dark current	. Mirage 3 aircraft	∞ statistics
(added October 1997)	. Mystere 20 aircraft . Mystere 50 aircraft	tables (data)
UF electrode dark current	RT ∞ aircraft	video data voice data processing
GS electric current . dark current		weather data recorders
RT low currents	Dassault Mirage 3 aircraft	world data centers
photocathodes	USE Mirage 3 aircraft	
photodiodes	Dassault Mystere 20 aircraft	data acquisition
photoelectric cells	USE Mystere 20 aircraft	GS acquisition
phototubes	•	. <b>data acquisition</b> RT Advanced Range Instrumentation
signal to noise ratios	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 responsible for accelerating the expansion of	STRUCTURAL TESTING) DEF A NASA program which uses the	counting ∞ 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) Global Tracking Network
gravitation theory universe	UF Drones for Aerodynamic and Struct	ground stations
	Test	infrared radiometers
dark matter	GS programs	meteorological research aircraft
GS extraterrestrial matter	. NASA programs	needs (data system)
. interstellar matter dark matter	<b>DAST program</b> RT aeroelasticity	news media observation
matter (physics)	aircraft control	ocean data acquisitions systems
- · ·		

optical data processing relational data bases ∞ routines optical scanners surveys remote sensors data converters tables (data) ∞ sensors GS data converters virtual memory systems Space Flight Tracking and Data analog to digital converters Network binary to decimal converters data mining 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 knowledge discovery knowledge extraction data processing conversion tables data adaptive evaluator/monitor ∞ converters data processing data mining data reduction decoders information analysis data transmission digital data data mining cluster analysis transducers 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  $RT \infty data$ ∞ data data bases analysis), data adaptive evaluator/monitor, and statistical analysis data management data analysis. statistical correlation 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 channels (data transmission) data management . multiprocessing (computers) . onboard data processing data simulation data collection platforms multisensor fusion . optical data processing Argos system . parallel processing (computers) automatic weather stations paranel 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 comground stations instrument packages puter; a readout device or a storage device. integrated global ocean station telecommunication . data links . signal processing
. space-time adaptive processing
. vector processing (computers) GS systems  $\infty$  platforms channels (data transmission) remote sensors . voice data processing communication networks ∞ data . cepstral analysis data compaction decommutators . data mining USE data compression discrete address beacon system RT access time frequency reuse adjoints data compression ∞ links airborne/spaceborne computers DEF 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 curve fitting RT 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  $RT \infty data$ ∘ data data conversion routines data base management systems data products data conversion routines data integration data structures subroutines data simulation decimal to binary converters algorithms frames (data processing) digital computers digital data compilers information resources management editing computer programs metadata

on-line systems records management

∞ conversion

∞ data

editing routines (computers)

end-to-end data systems

### data processing equipment

fixed point arithmetic . . . CDC Cyber 205 computer . . . . . 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 hybrid computers EAI 8400 computer 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 on-line systems IBM 1410 computer 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 7090 computer
. . IBM 7090 computer
. . IBM 7094 computer
. . IBM personal computers
. MINOS computer site data processors IBM 1130 computer symbols IBM 1401 computer systems engineering IBM 1410 computer tables (data) IBM 1620 computer optical computers tabulation processes IBM 2250 computer telecommunication Pegasus computer IBM 7030 computer IBM 7040 computer IBM 7044 computer . . RCA computers word processing . . . RCA spectra 70 computer . . . RCA-110 computers IBM 7070 computer data processing equipment Siemens 2002 computer IBM 7074 computer IBM 7090 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 CDC 3800 computer PDP 7 computer . . Intel 8080 microprocessor . CDC 6000 series computers . . . PDP 8 computer . peripheral equipment (computers)
. printers (data processing)
. remote consoles . PDP 9 computer CDC 6400 computer .... PDP 10 computer . . CDC 6600 computer .... PDP 11 computer
.... PDP 11/20 computer CDC 6700 computer RT batch processing CDC 7000 series computers . CDC 7600 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) CDC 8090 computer CDC Cyber 170 series computers data PDP 11/70 computer CDC Cyber 175 computer digital radar systems PDP 12 computer CDC Cyber 74 computer CDC Cyber 174 computer CDC Cyber 203 computer equipment Philco 2000 computer interfaces Raytheon computers multiprocessing (computers) CDC Cyber 205 computer RCA spectra 70 computer optical data processing CDC Star 100 computer SDS 900 series computers pipelining (computers) counting rate computers SDS 930 computer printers SDS 9300 computer 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  $\infty$  terminals CDC 7000 series computers Univac 80 computer . CDC 7600 computer Univac 418 computer CDC 8090 computer Univac 490 computer data processors 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

. . . . VAX-11 series computers

(added June 2005)

DEF Processed data from the same source

... CDC Cyber 203 computer

normally compiled into a set according to shared data transfer (computers) . needs (data system) characteristics. documentation Atmospheric & Oceanographic Inform products information management data products information retrieval control data (computers) RT Aqua spacecraft interservice data exchange program ∞ data 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 transfer (computers) remote sensors data sampling The technique used by the hardware satellite imagery GS sampling manufacturer to transmit data from computer to satellite-borne instruments data sampling storage device or from storage device to comspace commercialization computer systems performance puter, usually under specialized program con-Surface Meteorology and Solar ∞ data Energy project
Surface Radiation Budget project
technology utilization trol. quality control GS data processing . data transfer (computers) asynchronous transfer mode sampled data systems telecommunication computer programs data flow analysis data retrieval data storage time series analysis Terra spacecraft thematic mapping data simulation The use of statistical or physical moddata readout systems data systems els to produce synthetic data for testing purdata systems display devices poses data transmission GS simulation input/output routines data recorders data simulation interoperability data flow analysis data recorders . flight recorders data integration data transmission UF DAEMO (data analysis) . . flight load recorders data management weather data recorders bubble memory devices data adaptive evaluator/monitor data smoothing bubble technique The mathematical process of fitting a information transmission counters smooth curve to dispersed data points. transmission data processing data reduction . signal transmission ∞ data . . data transmission display devices . . data smoothing recording automatic picture transmission monitors punched cards . . . multiple access . . . . Aloha system ∞ recorders . data smoothing . . . . carrier sense multiple access recording instruments smoothing . . . . code division multiple access tape recorders data smoothing . . . . demand assignment multiple video disks RT curve fitting access ∞ data . . . . frequency division multiple data recording access data storage recording GS . . . . time division multiple access data recording data processing GS ... packet transmission bubble memory devices data storage . . . . Aloha system ∞ data bubble memory devices . . . single channel per carrier magnetic recording buffer storage transmission magnetic storage cards access control optical data storage materials core storage Argos system asynchronous transfer mode photographic recording data data transfer (computers) punched cards audio data punched tapes document storage automatic repeat request recording heads flip-flops carrier to noise ratios records holography channels (data transmission) tables (data) information management code division multiplexing tabulation processes interservice data exchange program coding video disks magnetic storage communication theory management information systems data reduction microfilms concatenated codes DEF Transformation of observed values microphotographs ∞ data into useful, ordered, or simplified information. data transfer (computers) optical data storage materials Deep Space Instrumentation Facility Used for DAEMO (data analysis), data adaptive optical disks evaluator/monitor, data analysis, and TARE electronic mail punched cards (data reduction). selective dissemination of information FM/PM (modulation) DAEMO (data analysis) frequency division multiplexing ∞ storage data adaptive evaluator/monitor video disks information theory intersymbolic interference data analysis virtual memory systems TARE (data reduction) white light holography laser applications data processing local area networks world data centers data reduction modems . data smoothing data structures multiplexing RT computation The organization of computer memory packet switching used to represent information in a computer packets (communication) ∞ data program or database.

RT computer programming editing protocol (computers) pulse communication preprocessing data bases radio telemetry ∞ reduction data processing radio transmission tables (data) knowledge based systems reading structured programming redundancy encoding data retrieval data processing satellite transmission GS data retrieval data systems ship to shore communication TDR satellites data handling systems retrieval UF data readout systems telecommunication data retrieval RT ∞ data GS data systems telemetry

. air data systems

data mining

transmission efficiency

# datum (elevation)

	transmission rate (communications)		tunable lasers	UF	direct current generators
	video data	DDC /	- t - U;t \	GS	electric generators
	VSAT (network)	DBS (sa	,		. direct power generators
	wireless communication	USE	direct broadcast satellites		. DC generators
		DC 3 ai	rcraft	DT.	homopolar generators
data vis	ualization	UF	Douglas DC-3 aircraft	HI o	∞ generators     rotating generators
USE	scientific visualization	GS	commercial aircraft		rotating generators
			. DC 3 aircraft	DCT (m	nathematics)
datina			McDonnell Douglas aircraft	USÈ	discrete cosine transform
dating USE	chronology		. Douglas aircraft		
UUL	time measurement		DC 3 aircraft		6 computer
	time measurement		monoplanes	GS	data processing equipment
			. DC 3 aircraft		. computers
	elevation)		transport aircraft . cargo aircraft		DDP computers DDP 516 computer
RT	clearances		. DC 3 aircraft		digital computers
	contours	RT ∝	aircraft		Honeywell computers
~	data				DDP 516 computer
	elevation angle hypsography	DC 7 ai	rcraft		
	leveling	UF	Douglas DC-7 aircraft		omputers
	maps	GS	commercial aircraft	GS	
	surveys		. DC 7 aircraft		. computers
	.,.		McDonnell Douglas aircraft		DDP computers
			. Douglas aircraft	DT	DDP 516 computer
dawn cl			DC 7 aircraft	RT	digital computers
UF	chorus (dawn phenomenon)		monoplanes . DC 7 aircraft	DDT	
GS	chorus phenomenon atmospheric radiation		transport aircraft	UF	dichlorodiphenyltrichloroethane
do	. dawn chorus		. cargo aircraft	GS	halogen compounds
	electromagnetic interference		. DC 7 aircraft		. chlorine compounds
	. radio frequency interference	RT ∝	aircraft		DDT
	electromagnetic noise		passenger aircraft		poisons
	atmospherics		-		. pesticides
	ionospherics	DC 8 ai			insecticides
	dawn chorus	UF	Douglas DC-8 aircraft		DDT
RT	auroras	GS	commercial aircraft	de Due	ulia vyavalanatha
	magnetic storms		DC 8 aircraft		glie wavelengths wavelengths
	whistlers		jet aircraft	do	. de Broglie wavelengths
			. turbofan aircraft	RT	elementary particles
dawson	ite		DC 8 aircraft McDonnell Douglas aircraft	111	mass
	A mineral consisting of aluminum so-		. Douglas aircraft		momentum
dium ca			DC 8 aircraft		Plancks constant
	minerals		monoplanes		quantum theory
	. dawsonite		. DC 8 aircraft		velocity
RT	aluminum		passenger aircraft		Wentzel-Kramer-Brillouin method
	sodium		. DC 8 aircraft		
	sodium carbonates		transport aircraft		illand aircraft
			DC 8 aircraft	GS	de Havilland aircraft
dayglov	v.	RT ∝	aircraft		. Comet 4 aircraft . DH 112 aircraft
GS	atmospheric radiation	DC 9 ai	roraft		. DH 112 aircraft
	. sky radiation	UF	Douglas DC-9 aircraft		. DH 121 aircraft
	dayglow	GS	commercial aircraft		. DH 125 aircraft
	electromagnetic radiation	ao	. DC 9 aircraft		. DHC 2 aircraft
	. light (visible radiation)		jet aircraft		. DHC 4 aircraft
	sky radiation		. DC 9 aircraft		. DHC 5 aircraft
	dayglow		McDonnell Douglas aircraft	RT o	∞ aircraft
RT	glare		. Douglas aircraft		
	light sources		DC 9 aircraft		illand DH 106 aircraft
	sky		transport aircraft	USE	Comet 4 aircraft
	solar radiation		DC 9 aircraft	de Hay	illand DH 112 aircraft
	twilight glow ultraviolet radiation	RT ∝	aircraft		DH 112 aircraft
	ultiaviolet radiation		MD 80 aircraft	002	DIT TIE all'Orait
		DC 10 a	ircraft	de Hav	illand DH 115 aircraft
daytime	•		commercial aircraft	USE	DH 115 aircraft
RT	diurnal variations	ao	. DC 10 aircraft		
	evening		jet aircraft		illand DH 121 aircraft
	morning		. DC 10 aircraft	USE	DH 121 aircraft
	night		McDonnell Douglas aircraft	de Hay	illand DH 125 aircraft
	noon		. Douglas aircraft	USE	DH 125 aircraft
	sky brightness		DC 10 aircraft	002	DIT 125 unoran
			. Mcdonnell aircraft	de Hav	illand DHC 4 aircraft
DBR las	sers		. DC 10 aircraft	USE	DHC 4 aircraft
(adde	ed November 1991)		passenger aircraft		
ÙF	distributed Bragg reflector lasers		DC 10 aircraft		illand DHC 5 aircraft
GS	electronic equipment		transport aircraft	USE	DHC 5 aircraft
	. solid state devices	DT .	. DC 10 aircraft	do Hay	illand Vanam aircraft
	solid state lasers	rii ∝	aircraft turbofan engines		illand Venom aircraft  DH 112 aircraft
	DBR lasers		turbolari erigiries	USE	Dir 112 alltralt
	stimulated emission devices	DC 11 a	nircraft	de Lava	al nozzles
	. lasers		MD 11 aircraft		convergent-divergent nozzles
	solid state lasers	_			
RT	DBR lasers	DC (cur			matization
пI	Bragg angle Bragg reflectors	USE	direct current	USE	acclimatization
	distributed feedback lasers	DC gen	orators	deactiv	ration
	semiconductor lasers		erators ed July 1991)		inactivation
		laude		01	

RT	activation	RT	plasmas (physics)		surface navigation
	passivity polarization (charge separation)	Debve	temperature	deceler	ation
	polarization (spin alignment)		specific heat	DEF	The act or process of moving, or cause
	sabotage	Dobyo	Hughel theory		e, with decreasing speed.
	shutdowns	RT	-Huckel theory dissociation	GS	rates (per time) . acceleration (physics)
dead re	ckoning		electrolytes		deceleration
	In navigation, determination of position		plasma potentials		spin reduction
	incing a previous known position for		∞ theories	RT	angular acceleration
	and distances.	Dalassa	Only a survey and a state of		braking
GS	navigation		-Scherrer method crystallography		damping
RT	. dead reckoning air navigation		diffraction		impact impact acceleration
	digital navigation		∞ methodology		landing loads
	Doppler navigation				physiological acceleration
	inertial navigation		etric waves	0	o reduction
	polar navigation	do	electromagnetic radiation . radio waves		retarding
	radar navigation radio navigation		decametric waves		retrofiring retrothrust
	surface navigation	RT	coronal holes		stopping
			high frequencies		tapering
deadwe			very high frequencies		thrust reversal
USE	static loads	decarb	onation	docolor	atora
doofnoo	•	GS	chemical reactions	decelera USE	brakes (for arresting motion)
deafnes USE	auditory defects		. decarbonation	OOL	brakes (for arresting motion)
UUL	additory defects	RT	carbonization	decepti	on
death			Late.	RŤ	air defense
RT	apoptosis		poxylation		chaff
	casualties	do	chemical reactions . decarboxylation		electronic countermeasures
	expiration	RT	carboxylation		electronic warfare optical countermeasures
	injuries				simulation
	life span mortality		purization		
	necrosis	RT			ous trees
			carburizing	GS	plants (botany)
Death V	alley (CA)		heating metal working		. trees (plants) deciduous trees
GS	landforms		metal working	RT	conifers
	. Death Valley (CA)	decay			Earth resources
	valleys . Death Valley (CA)	DEF	Decrease of a radioactive substance		foliage
RT	arid lands		se of nuclear emission of alpha or beta		forests
• • • •	California		es, positrons, or gamma rays.		leaves
	desertification	GS	decay . particle decay		timber identification
	deserts		neutron decay	decima	I to binary converters
	river basins		. plasma decay	GS	data converters
Dohono	ir aircraft		radioactive decay		decimal to binary converters
	C-33 aircraft		alpha decay	RT	binary data
002	o do anoran		neutron emission		binary to decimal converters
debond	ing (materials)		spacecraft glow     weak energy interactions		computer components data processing
(adde	ed July 1992)		weak interactions (field theory)		data processing
SN	(LIMITED TO THE SEPARATION OF BONDED MATERIALS; NOT TO BE USED	RT		decima	Is
	FOR THE BREAKUP OF		biodegradability	RT	digits
RT	ATOMIC/MOLECULAR BONDS)		biodegradation		number theory
ΠI	anodic stripping bonding		damage	۰	o numbers
	delaminating		degradation deterioration	decime	ter waves
	fiber composites		disintegration	GS	electromagnetic radiation
	fiber pushout		emission		. radio waves
	laminates		gamma rays		short wave radiation
	matrix materials peeling		half life		microwaves
	reinforcing fibers		hot atoms nuclear fission	RT	decimeter waves millimeter waves
~	separation		radiative lifetime	111	planetary radiation
	·				solar radio emission
debris		decay	rates		ultrahigh frequencies
GS	debris	GS	rates (per time)		
рт	. space debris		. decay rates	decisior	
RT	ejecta environment effects		electron decay rate		ed October 1997) decision support systems
	fragments	Decca	navigation	USE	decision support systems
	glacial drift	DEF		decisior	n elements
	pollution	sional ı	navigation system using continuous wave	USE	logical elements
~	radioactive debris		ission to provide hyperbolic lines of posi-		
	scrap		ough the radio frequency phase compari-		n making
	wastes	son ted GS	chniques from four transmitters.	RT	cognition
debuggi	na	GS	navigation . radio navigation		command and control contract management
	checkout		hyperbolic navigation		contract management
			Decca navigation		decision support systems
Debye I		RT	distance measuring equipment		decisions
	A theoretical length which describes		loran		economy
	imum separation at which a given elec-		loran C		judgments
	be influenced by the electric field of a sitive ion.		loran D navigation aids		management methods
	distance		Shoran		management planning
	. Debye length		solar compasses		problem solving

risk assessment risk management Starsite program systems engineering tradeoffs

### decision support systems

(added October 1997)

decision aids

GS information systems

. decision support systems

support systems

decision support systems

artificial intelligence computer techniques decision making expert systems knowledge based systems pilot support systems problem solving situational awareness

#### decision theory

#### decision theory GS

statistical decision theory dynamic programming expectation game theory information theory martingales mathematical models operations research probability theory recommendations risk scheduling statistical analysis stochastic processes

strategy svnthesis

systems engineering ∞ theories

#### decisions

RT ∞ commands contract management decision making judgments logic circuits management procurement policy project planning

selection

decks (floors) USE floors

### declination

Angular distance north or south of the 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 mapping navigation

### decoders

DEF 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 demodulation dictionaries ∞ interpretation translating Viterbi decoders

### decommissioning

DEF Disposal or deactivation of equipment or sites whose usefulness has diminished to a point where it is no longer required for its original purpose.

radioactive wastes underground storage

### decommutators

DEF Equipment for separation, demodulation, or demultiplexing commutated signals.

commutators GS

. decommutators

data links demodulators

differential pulse code modulation

electric motors ∞ generators

pulse code modulation

telemetry

### decomposition

### GS decomposition

- . ammonolysis
- . cracking (chemical engineering)
- . . hydrocracking
- . . pyrolysis
- . glycolysis . hydrogenolysis
- hydrocracking
- . nitrolysis . photodecomposition
- . photodissociation
- photolysis propellant decomposition
- radiolysis
- thermal decomposition

. pyrolysis

ablation biodegradability

biodegradation charring damage degradation deterioration disintegration dissociation electrolysis

laterites overvoltage storage stability thermal dissociation

decompression

USE pressure reduction

### 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

aeroembolism altitude sickness barotrauma diving (underwater)

### deconditioning

GS behavior deconditioning RT learning reflexes

### decongestants

GS drugs

decongestants

RT antihistaminics

#### decontamination

#### GS decontamination

. spacecraft sterilization

air purification

antiseptics carbon dioxide concentration carbon dioxide removal

cleaning contaminants contamination dewaxing disposal dissipation elimination

environmental cleanup

ethylene oxide exhausting extensions ∞ food

planetary protection

pollution purging purification purity ∞ reduction

∞ separation

spacecraft contamination

sterilization sterilization effects washing

### decoupling

### GS decoupling

. spin decoupling coupling disconnect devices gravitinos releasing

### decoys

GS decoys

ballistic missile decoys

Blue Goose missile

quail missile

reentry decoys

countermeasures dummies

decrementing USE reduction

### deduction

derivation RT inference

### deep drawing

RT bulging cold drawing cold working explosive forming magnetic forming 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 ∞ ports RT communication networks ... interplanetary space ship terminals ∞ defense . . interstellar space tanker ships military technology 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)

GS space mission) defects defense program flaws GS programs imperfections defense program GS space missions defects air defense Deep Space 1 Mission . auditory defects antimissile defense RT asteroid missions . crystal defects armed forces (United States) autonomous navigation . . crystal dislocations civil defense flyby missions . . . edge 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 . hyperopia **Deep Space Instrumentation Facility** inclusions DSIF (instrumentation facility) definition . speech defects . surface defects RT castings GS stations RT accuracy . ground stations delineation ... Deep Space Instrumentation descriptions Facility cavities dictionaries . tracking stations
. Deep Space Instrumentation cracks ∞ measurement cumulative damage nomenclatures Facility damage 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 RT 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

deep well injection (wastes)

wave dispersion

	yokes	distortion	rotating matter
deflect		elongation	stellar cores
deflecto DEF	Plates, baffles, or the like that divert	failure flexing	stellar evolution stellar mass
	ng in its movement or flow.	fractures (materials)	supermassive stars
GS	deflectors	indentation	white dwarf stars
	. blast deflectors	kinking	
БТ	. flame deflectors	mechanical properties	degeneration
RT	attenuators	Portevin-le Chatelier effect	RT atrophy
~	baffles ∘ diffusers	set skewness	deterioration negative feedback
	diverters	stiffness	negative recubació
	flow deflection	strain distribution	degenerative feedback
	gust alleviators	structural failure	USE negative feedback
	reflectors	structural strain	degradation
	safety devices	temperature inversions	DEF Gradual deterioration in performance.
	shielding spoilers	topology torsion	GS degradation
	оролого	twisting	. biodegradation
defluor	ination	volumetric strain	. thermal degradation
GS	chemical reactions	warpage	. wave degradation
ОТ	. defluorination	wrinkling	RT chemical attack
RT	fluorination	deformeters	corrosion cumulative damage
	halogenation	GS measuring instruments	curing
defocus	sing	. deformeters	damage
GS	focusing	RT deformation	decay
	defocusing	dimensional measurement	decomposition
RT ∘	optics	extensometers	depolymerization
defoliar	nte	mechanical measurement	deterioration discoloration
RT	defoliation	strain gages stress measurement	durability
	foliage	tensometers	embrittlement
	forests		erosion
	herbicides	defrosting	hot corrosion
	leaves	RT deicing	oxidation
	plants (botany) trees (plants)	heating ice prevention	pitting
	trees (piarits)	melting	preserving rusting
defoliat	ion	refrigerating	scale (corrosion)
RT	brush (botany)	refrigerators	sterilization effects
	defoliants		thermal dissociation
	deforestation	degassing	weathering
	forests	DEF The deliberate removal of gas from a	dograph of freedom
	grasses leaves	material, usually by application of heat under high vacuum. Used for bakeout.	degrees of freedom  DEF A mode of motion, either angular or
	plants (botany)	UF bakeout	linear, with respect to a coordinate system,
	trees (plants)	GS degassing	independent of any other mode. A body in
	,	. deoxygenation	motion has six possible degrees of freedom,
defores		RT absorbers (equipment)	three linear and three angular.
RT	biological diversity	aeration	RT equipartition theorem
	biomass burning clearings (openings)	baking	experiment design
	conservation	castings deoxidizing	factor analysis null hypothesis
	defoliation	desorption	phase rule
	environment effects	gas evolution	quality control
	forests	occlusion	significance
	alala sadana na	offgassing	three dimensional motion
	able mirrors ed May 1998)	outgassing	torquers
GS	mirrors	purging scavenging	∞ variance
ao	. deformable mirrors	∞ separation	DEHP
RT	adaptive optics		USE diethyl hydrogen phosphite (DEHP)
	light modulation	degenerate matter	
	phase modulation	DEF A state of matter found in white dwarf	dehumidification
	segmented mirrors	stars and other ultrahigh-density objects in which the electrons follow Fermi-Dirac statistics,	DEF The reduction, by any process, of the
deform	ation	i.e., the matter reaches a density high enough	quantity of water vapor within a given space. GS drying
DEF	A change in the shape or size of a solid	so that the pressure increases more and more	. dehumidification
body.	3	rapidly to the point where it becomes indepen-	RT condensing
ĞS	deformation	dent of the temperature and is a function of the	cooling systems
	. axial strain	density only, thereby departing from the classi-	dehydration
	. elastic deformation	cal laws of physics.	diffusion
	elastic bending elastic buckling	GS matter (physics) . degenerate matter	humidity refrigerating
	. nuclear deformation	RT antimatter	∞ separation
	. plastic deformation	astrophysics	silica gel
	. static deformation	black holes (astronomy)	<b>G</b>
	. tensile deformation	cosmic gases	dehydrated food
DT	. wave front deformation	critical pressure	RT consumables (spacecrew supplies)
RT	bending buckling	density (mass/volume)	dehydration
	buckling camber	extraterrestrial matter Fermi-Dirac statistics	drying apparatus ∞ food
	collapse	high pressure	food processing
	corrugating	massive stars	freeze drying
		naked singularities	preserving
	creep properties		
	damage	neutron stars	space flight feeding
	damage deflection	neutron stars nuclear fusion	space flight feeding
	damage	neutron stars	

dehydration	softening	Delft camera
RT columns (process engineering)	dekatrons	delineation
dehumidification dehydrated food	USE counters	RT boundaries
dewatering	OCE COUNTRIES	definition
evaporation	delaminating	∞ profiles
freeze drying	RT anodic stripping	p.ooo
hydration	debonding (materials)	delivery
plasmolysis	interlaminar stress	GS delivery
∞ separation	peeling	. payload delivery (STS)
silica gel	∞ separation	. weapons delivery
thermogravimetry	Delaware	RT air drop operations
water loss	GS nations	airdrops
	. United States	cargo circulation
dehydrogenases	Delaware	hauling
(added June 2004)	RT Delaware River Basin (US)	materials handling
DEF Class of oxidoreductase enzymes that	Delmarva Peninsula (DE-MD-VA)	output
catalyze the transfer of hydrogen atoms from a	Deleurere Pay (US)	∞ receiving
substrate to an acceptor other than oxygen.  GS biopolymers	Delaware Bay (US) GS bays (topographic features)	transportation
. proteins	. Delaware Bay (US)	trucks
enzymes	RT Atlantic Ocean	Delmarva Peninsula (DE-MD-VA)
dehydrogenases	gulfs	GS landforms
organic compounds	inlets (topography)	. peninsulas
. proteins	New Jersey	. Delmarva Peninsula (DE-MD-VA)
enzymes	Pennsylvania	RT Delaware
dehydrogenases	Delaware River Basin (US)	Maryland
RT oxidase	GS landforms	Virginia
	. structural basins	Bullett with a title and the co
dehydrogenation	river basins	Delphi method (forecasting) GS management methods
GS chemical reactions	Delaware River Basin (US)	GS management methods . Delphi method (forecasting)
. dehydrogenation	RT Delaware	predictions
RT columns (process engineering) hydroforming	New Jersey	. forecasting
hydrogenation	New York	. technological forecasting
hydrogenolysis	Pennsylvania	Delphi method (forecasting)
oxidation	rivers	RT estimating
reduction (chemistry)	streams valleys	∞ methodology
	valleys	operations research
deicers	delay	pattern method (forecasting)
UF deicing systems	RT dwell	planning
RT aircraft icing	∞ holding	probe method (forecasting) profile method (forecasting)
airfoils	lateness	technology assessment
antiicing additives	stopping	
deicing	time lag	Delrin (trademark)
∞ heaters		GS plastics
heating equipment	transmission rate (communications)	Delrin (trademark)
ice prevention	delay circuits	RT resins
	GS circuits	Delta 3 launch vehicle
deicing	delay circuits	(added October 1998)
RT aircraft icing airfoils	phantastrons	GS launch vehicles
antiicing additives	RT acoustic delay lines	. Delta launch vehicle
defrosting	circulators (phase shift circuits) comparator circuits	Delta 3 launch vehicle
deicers	phase shift circuits	
∞ heaters	phase sime cheans	Delta 4 Heavy launch vehicle
heating equipment	delay lines	(added September 2005)
ice prevention	GS delay lines	DEF Member of the Boeing Delta 4 family of
melting	. acoustic delay lines	launch vehicles designed to launch heavy pay- loads (~28,124 pounds) into geosynchronous
	. delay lines (computer storage)	transfer orbit (GTO) using three common
deicing systems	RT ∞ lines	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
distance of 23,500 kilometers.	GS computer components	. Delta launch vehicle
GS celestial bodies	. computer storage devices	Delta 4 Heavy launch vehicle . heavy lift launch vehicles
. natural satellites	delay lines (computer storage)	Delta 4 Heavy launch vehicle
Mars satellites	delay lines . delay lines (computer storage)	RT booster rocket engines
<b>Deimos</b> RT Charon	RT shift registers	Delta 4 launch vehicle
Mars (planet)	··· o.m. rogiotoro	liquid propellant rocket engines
Nozomi Mars Orbiter	deletion	rocket launching
Phobos	GS elimination	spacecraft launching
	deletion	Dolto 4 Journels vehicle
deionization	RT disposal	Delta 4 launch vehicle (added October 1998)
DEF The removal of ions from a solution by	removal	GS launch vehicles
ion exchange.	Delfin aircraft	. Delta launch vehicle
GS chemical reactions	USE L-29 jet trainer	. Delta 4 launch vehicle
. deionization	•	RT Delta 4 Heavy launch vehicle
RT atomic recombination	Delft camera	
demineralizing	GS optical equipment	delta antennas
exchanging	. cameras	GS antennas
ion recombination radiative recombination	<b>Delft camera</b> photographic equipment	. <b>delta antennas</b> RT antenna design
∞ separation	. cameras	resonators
ooparation	· oamorao	10001141010

	transmission lines		. signal encoding		softening
D-14- 0	H		pulse modulation		water treatment
Delta C	npper ed September 1994)		pulse code modulation delta modulation	Democr	atic Peoples Republic of Korea
,	launch vehicles		modulation		North Korea
	. reusable launch vehicles		. pulse modulation		
	single stage to orbit vehicles		pulse code modulation		ratic Republic of Congo
	Delta Clipper reentry vehicles	DT	delta modulation	SN	(REPLACED THE TERM "ZAIRE" IN 1997; ALL OLDER RECORDS HAVE BEEN
	recoverable spacecraft	RT	pulse communication		UPDATED WITH THE NEW FORM OF THE
	reusable spacecraft	delta w	inas	UF	TERM) Belgian Congo
	single stage to orbit vehicles	DEF		-	Congo (Kinshasa)
	Delta Clipper		r triangular wings.		Zaire
RT	aerospace planes	UF	triangular wings	GS	nations
	liquid propellant rocket engines space transportation	GS	airfoils . wings	RT	. Democratic Republic of Congo Africa
	space transportation		. low aspect ratio wings	nı	Allica
Delta Da	agger aircraft		delta wings	demodu	ulation
USE	F-102 aircraft		swept wings	RT	amplitude modulation
Dolto D	art aircraft		sweptback wings		decoding
	F-106 aircraft		delta wings planforms		demodulators detectors
OOL	1 100 anciait		. wing planforms	•	frequency modulation
delta fu	nction		sweptback wings		heterodyning
GS	analysis (mathematics)		delta wings		intermodulation
	real variables	RT	arrow wings		modulation
	delta function functions (mathematics)		AVRO 707 aircraft		phase modulation
	. delta function		caret wings FD 2 aircraft		pulse modulation remodulation
			GA-5 aircraft		telecommunication
	unch vehicle		variable sweep wings		10.000
GS	launch vehicles		VATOL aircraft	demodu	
	. Delta launch vehicle Delta 3 launch vehicle		waveriders		Electronic devices which operate on
	Delta 4 Heavy launch vehicle		wing rock		t of a modulated carrier to recover the ing wave as an output.
	Delta 4 launch vehicle	deltas			demodulators
RT	Anik 1	GS	landforms	0.0	. frequency compression
	Anik 2		. deltas		demodulators
	Anik satellites		Mississippi Delta (LA)		. modems
	Beacon Explorer A ESSA 1 satellite	ОТ	Rhone Delta (France)		. phase demodulators
	ESSA 2 satellite	RT	alluvium fans (landforms)	RT	. phase lock demodulators amplitude modulation
	ESSA 3 satellite		rivers	111	decoders
	ESSA 4 satellite		sands		decommutators
	ESSA 5 satellite		soils		demodulation
	ESSA 6 satellite ESSA 7 satellite				frequency modulation
	ESSA 8 satellite	_	netization The reduction of residual magnetism to		matched filters
	ESSA 9 satellite		ptable level.		modulation modulators
	Explorer 10 satellite	RT	magnetic fields		phase modulation
	Explorer 12 satellite	~	· reduction		pulse modulation
	Explorer 14 satellite		.,		_
	Explorer 15 satellite Explorer 17 satellite	demand GS	d (economics) economics	demogr	
	Explorer 18 satellite	as	. demand (economics)	esnecial	Statistical study of human populations, lly 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 Explorer 32 satellite		d assignment multiple access A technique of assigning communica-		communities
	Explorer 33 satellite		ources on an "as needed basis" such as		o density o distribution
	Explorer 38 satellite		ite communications. Used for DAMA.		human beings
	Explorer 43 satellite	UF	DAMA		inhabitants
	Explorer 49 satellite	GS	telecommunication		megalopolises
	Explorer 55 satellite		. multiple access		nations
	International Magnetospheric Explorer OSO-1		. demand assignment multiple access		sociology statistics
	OSO-2		transmission	•	Statistics
	OSO-4		. signal transmission	demons	tration
	OSO-C		data transmission	USE	proving
	outer planets explorers		multiple access		alasta a
	Pioneer 6 space probe Pioneer 7 space probe		demand assignment multiple access	demulti	Separation of two or more signals that
	RCA Satcom satellites	RT	channel capacity		eviously combined by a compatible mul-
	Space Shuttle upper stage D		communication networks		and transmitted over a single channel.
	SYNCOM 1 satellite		communication satellites	GS	transmission
	SYNCOM 2 satellite		satellite networks	C-T	. demultiplexing
	SYNCOM 3 satellite TIROS 2 satellite	demine	ralizing	RT	code division multiplexing frequency division multiplexing
	TIROS 2 satellite	GS	demineralizing		multiplexing
	TIROS 4 satellite	5.0	. bone demineralization		time division multiplexing
	TIROS 5 satellite	RT	crystallization		wavelength division multiplexing
	TIROS 6 satellite		deionization		-ti (l-i)
	TIROS 7 satellite		desalinization		ation (biopolymers)
	TIROS 8 satellite TIROS 9 satellite		distillation ion exchanging	USE	biopolymer denaturation
	TIROS 9 satellite		osmosis	dendrin	ners
			purification	(adde	ed October 2000)
	odulation		reverse osmosis		A class of polymeric macromolecules
GS	coding	00	separation	characte	erized by a regular highly-branched mo-

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

RT nerves 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

GS chemical reactions

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

RT 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 density (mass/volume) GS

atmospheric density

gas density

space density

absorptance absorptivity

bulk modulus buoyancy compressibility degenerate matter

densimeters

density measurement hydrometers

internal friction isopycnic processes

Lewis numbers opacity permeability 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

GS deposits . calculi

. dental calculi

lithiasis teeth tooth diseases

### dentistry

medical science GS dentistry medical equipment oral hygiene

	teeth		∞ automation		thermophoresis
	tooth diseases		cybernetics		in cimophoresis
			detachment	deposi	te
deoxidi	zing		disorders	SN	(EXCLUDES BANK MINERAL AND
GS	chemical reactions		man machine systems	OIN	GEOLOGICAL DEPOSITS)
	. reduction (chemistry)		mechanization	GS	deposits
	deoxidizing		personality		. calculi
RT	degassing		personnel		dental calculi
0	o deoxification				. cryodeposits
	deoxygenation	depleti		RT	9
	scavenging	GS	depletion		corrosion
∞ deoxifi	cation	БТ	. ozone depletion		crude oil
SN	(USE OF A MORE SPECIFIC TERM IS	RT	consumption		deposition
011	RECOMMENDEDCONSULT THE TERMS		depreciation		plating sediments
РΤ	LISTED BELOW)		dissipation elimination		sludge
RT	deoxidizing		energy policy		siduge
	deoxygenation		exhaustion		
	sterilization effects		exploitation	deprec	
deoxyd	enation		life (durability)	RT	depletion
	degassing		losses		deterioration
40	. deoxygenation		∞ reduction		investments
RT	deoxidizing		removal		life (durability)
	deoxification		resources		wear
	∘ reduction		utilization		
	<ul><li>separation</li></ul>		umzatori	depres	sants
	oopara	deploy	ment	GS	depressants
deoxyr	ibonucleic acid	RT	game theory		. central nervous system depressants
DEÉ	The molecule that encodes genetic		logistics	RT	anesthesiology
	tiion - a double-stranded moleculeeld		military operations		
togethe	r by weak bonds betweeen base pairs of		military technology	∞ depres	sion
nucleoti	des. Used for DNA.	c	∞ operations	SN	(USE OF A MORE SPECIFIC TERM IS
UF	DNA		personnel		RECOMMENDED CONSULT THE TERMS
	recombinant DNA		strategy	RT	LISTED BELOW) detachment
GS	acids		tactics		disorders
	. nucleic acids				emotions
	deoxyribonucleic acid	depola	rization		∞ hollow
	complementary DNA	SN	(EXCLUDES CONSIDERATION OF		introversion
	biopolymers		OPTICAL DEPOLARIZATION AND		lethargy
	. nucleic acids	DEF	PARTICLE SPIN DISALIGNMENT) A decrease in the polarization of an		low pressure
	deoxyribonucleic acid		de at a specified current density. Used for		neurotic depression
	complementary DNA	depolar	•		psychotic depression
	organic compounds	UF	depolarizers		recession
	. nucleic acids	RT	electrolytic polarization		schizophrenia
	deoxyribonucleic acid	111	electrophysiology		tectonics
	complementary DNA		polarization (charge separation)		topography
RT	adenosine monophosphate		∞ reduction		
	apoptosis		spike potentials	donroce	sions (topography)
	chromatin		Spine potentials	USE	structural basins
	cloning (biology)	depolar	izers	USE	Structural basins
	gene expression	,	depolarization		
	gene therapy	OOL	acpoiarization		surization
	genes	denoly	merization	USE	pressure reduction
	genome	GS	chemical reactions		
	mutagenesis	ao	. depolymerization	depriva	ation
	plasmids	RT	degradation	GS	deprivation
	polymerase chain reaction		deterioration		. sensory deprivation
	thymidine		polymerization		. sleep deprivation
	thymine transcription (genetics)		1-7		. water deprivation
	transcription (genetics)	deposi	tion	RT	confining
depend	lence	UF	accretion		isolation
UF	dependency	GS	deposition		stress (biology)
GS	dependence		anodizing		stress (physiology)
	. spatial dependencies		. electrodeposition		
	. temperature dependence		electroplating	depth	
	. time dependence		electroless deposition	GS	dimensions
RT	group dynamics		. laser deposition		. depth
	sociology		pulsed laser deposition	RT	distance
			. vapor deposition		height
depend	ency		metalorganic chemical vapor		thickness
USE	dependence		deposition		
			vacuum deposition	depth r	neasurement
depend	lent variables	RT	accumulations	RT	bathymeters
DEF	Variables considered as a function of		coagulation		core sampling
	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		
	observability (systems)		fouling	denth n	perception
	parameterization		magnetron sputtering		space perception
	real variables		metal coatings	302	-1
0	2.11				
	∘ variable		plating	ة - بيان مالم المالم	iam.
al :			precipitation (chemistry)	derivat	
	onalization		precipitation (chemistry) sediments	RT	deduction
depers	onalization artificial intelligence	c	precipitation (chemistry) sediments ∞ separation	RT	deduction ∞ induction
	onalization	c	precipitation (chemistry) sediments	RT	deduction

characterization RT definition nomenclatures

descriptions

missile trajectories

parabolic flight

reentry guidance

terminal guidance

spacecraft trajectories

USE drying

desiccants

desiccation

DFF

desiccators

GS separators

absorbents

adsorbents

. drying apparatus

Chemicals used to absorb moisture.

. shape optimization

computer aided design

aircraft design

design analysis

evolvable hardware

genetic algorithms sensitivity analysis structural analysis

structural design

structural design criteria

∞ design

systems engineering targets wear tests tracking (position) warning desulfurizing design to cost chemical reactions A process whereby cost factors are GS warning systems desulfurizing determined and calculated for the life cycle of a 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) roasting SN 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 anticoincidence detectors desorption desynchronization (biology) autodynes DEF The process of removing sorbed gas. disorientation RT ∞ absorption 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 Destroyer aircraft ethylenediaminetetraacetic acids haze detection lubricating oils USE B-66 aircraft high altitude nuclear detection soaps missile detection surfactants destruction . radar detection 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) ultrasonic flaw detection decay flight hazards . explosives detection decomposition 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 drop tests observation system failures fatigue tests position (location) wear radar signatures fiber pushout wear resistance impact tests signature analysis weathering load tests signatures sound localization ∞ materials tests sound ranging space observations (from Earth) nondestructive tests determinants tensile tests algebra GS surveillance determinants ∞ tests

target acquisition

RT

linear equations

vibration tests

matrices (mathematics)		hydrogen isotopes		protons
determination		deuterium gases	develor	pers (photography)
USE measurement		. hydrogen		photographic developers
		hydrogen isotopes		
detonable gas mixtures		deuterium		oing nations
GS gases . gas mixtures	RT	heavy water	RI	Caribbean region economic development
detonable gas mixtures		hydrogen fuels hydrogen plasma		economic factors
mixtures		nuclear fuels		nations
. solutions		That is a second of the second		United Nations
gas mixtures	deuteriu	ım compounds		
detonable gas mixtures		hydrogen compounds	∞ develo	•
RT chemical explosions firing (igniting)		. deuterium compounds	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS
flammability		deuterides		LISTED BELOW)
flammable gases		deuterium fluorides	RT	angiogenesis
gas explosions	RT ~	heavy water chemical compounds		energy policy evolution (development)
gas-gas interactions	111 ~	chemical compounds		exploitation
oxyacetylene	deuteriu	m fluoride lasers		growth
reacting flow		DF lasers		land use
detonation				management planning
DEF A rapid chemical reaction which propa-	deuteriu	ım fluorides		missile design
gates at a supersonic velocity. Used for	DEF	Fluorides of deuterium, a heavy iso-		personnel development photographic developers
Chapman-Jouget flame.		nydrogen. Used for DF.		product development
UF Chapman-Jouget flame	UF	DF		rural land use
RT chemical explosions	GS	halogen compounds . fluorine compounds		Starsite program
combustion ∞ discharge		fluorides		training analysis
∞ discharge explosions		deuterium fluorides		urban development
firing (igniting)		. halides		
flame propagation		fluorides	deviation DEF	
initiation		deuterium fluorides		The variation from a specified dimen- design requirement, usually defining
percussion		hydrogen compounds		nd lower limits.
primers (explosives)		. deuterium compounds deuterium fluorides		aberration
propellant explosions	RT	DF lasers		abnormalities
pulse detonation engines pulsejet engines		D1 103013		asymmetry
rocket firing	deuteriu	m oxides	c	odispersion
shock waves		heavy water		distortion
		•		divergence ∘ drift
detonation waves	deuteriu	ım plasma	· ·	eccentricity
DEF Shock waves that accompany detona-		particles		heterogeneity
tion and have a shock front followed by a region of decreasing pressure in which the reaction		. charged particles		irregularities
occurs.		energetic particles		nonsynchronization
GS elastic waves		plasmas (physics)		variations
. shock waves		hydrogen plasma deuterium plasma	∞ device:	_
detonation waves		. corpuscular radiation	∞ device:	(USE OF A MORE SPECIFIC TERM IS
RT combustible flow		energetic particles	OIV	RECOMMENDEDCONSULT THE TERMS
flame propagation		plasmas (physics)	DT	LISTED BELOW) air bag restraint devices
gas explosions ram accelerators		hydrogen plasma	пі	alpha plasma devices
seismic waves	DT	deuterium plasma		antiskid devices
sound waves	RT	deuterons hydrogen		bulk acoustic wave devices
∞ waves		nydrogen		chips (memory devices)
	deutero	n irradiation		cyclotron resonance devices
detonators		irradiation		error correcting devices
GS explosive devices . initiators (explosives)	3.5	. ion irradiation		explosive devices lift devices
detonators		deuteron irradiation		lifting bodies
igniters	RT	alpha particles		mechanical devices
. initiators (explosives)		charged particles		nanostructures (devices)
detonators		nuclear fusion		NDM semiconductor devices
RT caps (explosives)		particles plasmas (physics)		nuclear devices
exploding wires		proton irradiation		photoelectrochemical devices
explosives fulminates		protori irradiation		plasma display devices positioning devices (machinery)
fuses (ordnance)	deutero	ns		safety devices
primers (explosives)	DEF	The nuclei of deuterium atoms.		self erecting devices
sodium azides	GS	ions		self repairing devices
		. deuterons		solid state devices
deuterides		particles		surface acoustic wave devices
GS hydrogen compounds		. charged particles		training devices
. deuterium compounds <b>deuterides</b>		nuclei (nuclear physics)		TRAPATT devices
RT hydrides		deuterons	devitrific	cation
··· ··yandoo		. corpuscular radiation		crystallization
deuterium		. energetic particles		-
DEF A heavy isotope of hydrogen having		nuclei (nuclear physics)	dew	
one proton and one neutron in the nucleus.		deuterons	RT	acid rain
Used for hydrogen 2.		. elementary particles		frost
UF hydrogen 2	DT	deuterons		hydrometeors
GS chemical elements	RT	alpha particles cosmic rays		precipitation (meteorology) water vapor
. hydrogen hydrogen isotopes		deuterium plasma		ναιοι ναροι
deuterium		photomagnetic effects	dew po	int
. nuclides		plasmas (physics)	DEF	Temperature at which water vapor be-
isotopes		Pomeranchuk theorem		condense.

# dewatering

RT	atmospheric moisture		Hawker Siddeley aircraft	RT ∝	aircraft
	condensing hygrometers		. DH 121 aircraft jet aircraft	DUC Ba	and a sire reft
	saturation (chemistry)		. turbofan aircraft		eaver aircraft  DHC 2 aircraft
_	, ,,		. DH 121 aircraft	002	Dilo 2 anoran
	systems		monoplanes	diabetes	s mellitus
USE	cryogenic equipment		. DH 121 aircraft passenger aircraft	GS	diseases
dewate	ring		. DH 121 aircraft	RT	. diabetes mellitus carbohydrate metabolism
DEF	Removal of water by draining, pump-		transport aircraft	nı	enzyme activity
ing, or d RT	other means. dehydration		. DH 121 aircraft		insulin
п	drying	RT «	∞ aircraft		pancreas
	pollution control				urinalysis
	waste disposal		aircraft	Diadom	e satellites
	water reclamation	UF	de Havilland DH 125 aircraft HS-125 aircraft		artificial satellites
dewaxii	na		Jet Dragon aircraft		. Diademe satellites
RT	decontamination	GS	de Havilland aircraft		
	refining		. DH 125 aircraft	diagnos	
dewettir	na .		general aviation aircraft . DH 125 aircraft	HI≪	analyzing anesthesiology
	drying		Hawker Siddeley aircraft		behavior
			. DH 125 aircraft		biomarkers
dextran			jet aircraft		clinical medicine
GS	biopolymers . polysaccharides		. DH 125 aircraft		diseases
	dextrans		light aircraft . DH 125 aircraft		examination injuries
	organic compounds		monoplanes		medical equipment
	. carbohydrates		DH 125 aircraft		medical science
	polysaccharides dextrans		passenger aircraft		pathology
	sugars		. DH 125 aircraft		prognosis psychology
	dextrans		transport aircraft . DH 125 aircraft		psychometrics
D.E.		RT «	∞ aircraft		telemedicine
<i>DF</i> USE	deuterium fluorides				veterinary medicine
USL	deuterium nuorides	DHC 2	aircraft		
DF lase			De Havilland Canada STOL utility air-	diagram GS	ns diagrams
DEF			sed for DHC Beaver aircraft.	as	. bending diagrams
is deute ride lase	erium fluoride. Used for deuterium fluo-	UF GS	DHC Beaver aircraft		. block diagrams
UF	deuterium fluoride lasers	do	de Havilland aircraft . DHC 2 aircraft		. circuit diagrams
GS	stimulated emission devices		general aviation aircraft		. color-color diagram . color-magnitude diagram
	. lasers		DHC 2 aircraft		. creep diagrams
	gas lasers DF lasers		jet aircraft		. Feynman diagrams
RT	deuterium fluorides		. DHC 2 aircraft monoplanes		. Hertzsprung-Russell diagram
• • • •	acatonam nacriaco		. DHC 2 aircraft		. Mollier diagram
	aircraft		transport aircraft		. Nyquist diagram . phase diagrams
USE	Comet 4 aircraft		. DHC 2 aircraft		. S-N diagrams
DH 112	aircraft	RI «	∞ aircraft		. stress-strain diagrams
UF	de Havilland DH 112 aircraft				. tephigrams
	de Havilland Venom aircraft		aircraft		. Venn diagrams . Voronoi diagrams
GS	Venom aircraft attack aircraft	UF	AC-1 aircraft Caribou aircraft	RT	charts
ao	. fighter aircraft		CV-2 aircraft		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 . DH 112 aircraft		monoplanes . DHC 4 aircraft	DIAL (lic	dar)
	jet aircraft		transport aircraft		differential absorption lidar
	DH 112 aircraft		DHC 4 aircraft		
	monoplanes		utility aircraft	DIAL sa	
RT ~	. DH 112 aircraft ∘ aircraft		. DHC 4 aircraft V/STOL aircraft	GS	artificial satellites
пг∽	· all Craft		. short takeoff aircraft		. scientific satellites DIAL satellite
	aircraft		DHC 4 aircraft	RT	aeronomy
UF	de Havilland DH 115 aircraft	RT «	∞ aircraft		astronomical photometry
GS	Vampire aircraft attack aircraft				European space programs
GS	. DH 115 aircraft	DHC 5	aircraft		satellite-borne instruments
	de Havilland aircraft	UF	Buffalo aircraft	diallyl a	omnoundo
	DH 115 aircraft		CV-7 aircraft		ompounds allyl compounds
	Hawker Siddeley aircraft	GS	de Havilland DHC 5 aircraft de Havilland aircraft		chemical compounds
	. DH 115 aircraft jet aircraft	do	. DHC 5 aircraft		·
	. DH 115 aircraft		jet aircraft	dials	
	monoplanes		. turboprop aircraft	UF	pointers
	DH 115 aircraft		DHC 5 aircraft	RT	display devices indicating instruments
RT∝	∘ aircraft		monoplanes . DHC 5 aircraft		maloung monuments
DH 121	aircraft		transport aircraft	dialysis	
UF	de Havilland DH 121 aircraft		. DHC 5 aircraft		dialysis
00	Trident aircraft		utility aircraft		electrodialysis
GS	commercial aircraft . DH 121 aircraft		. DHC 5 aircraft V/STOL aircraft	RT	diaphragms (mechanics) diffusion
	de Havilland aircraft		. short takeoff aircraft		extraction

. . DHC 5 aircraft

permeating

. DH 121 aircraft

∞ separation

thorax

... dibromides

# diamagnetism

Meissner effect GS magnetic properties

diamagnetism Curie temperature cyclotron resonance electrical properties

ferromagnetism paramagnetism

#### Diamant launch vehicle

GS launch vehicles

Diamant launch vehicle rocket vehicles

. multistage rocket vehicles

. Diamant launch vehicle liquid propellant rocket engines solid propellant rocket engines

## diameters

DEF Lengths of the longest straight lines through the centers of the largest cross sec-

dimensions

diameters RT circumferences

geometry radii thickness

#### diamines

GS organic compounds

. amines

. . diamines

. . . ethylenediamine

. . . guánidines . . . . guanethidine

... triaminoguanidinium azide

#### diamond films

(added November 1991)

thin films

diamond films

amorphous silicon coatings

diamonds metal films semiconducting films space processing vacuum deposition

vapor deposition

diamond pyramid hardness (added October 2001) USE Vickers hardness

diamond wings

USE low aspect ratio wings swept wings

# diamonds

(A) An isometric mineral, representing a naturally occurring crystalline form of carbon dimorphous with graphiteand being the hardest natural substance known. (B) Artificially produced crystallized carbon similar to the native form. (C) A crystalline mineral that resembles diamonds in brilliance.

GS diamonds

. meteoritic diamonds

abrasives carbon diamond films single crystals

#### diaphragm (anatomy)

DEF Musculomembranous partition separating the abdominal and thoracic cavities.

anatomy

. musculoskeletal system

. . muscles

. . diaphragm (anatomy) respiratory system
... diaphragm (anatomy)

RT ∞ diaphragms

∞ diaphragms

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

diaphragm (anatomy) diaphragms (mechanics) electrolytic cells membranes

## diaphragms (mechanics)

(NON-ANATOMICAL) bladders (mechanics) GS diaphragms (mechanics)

. expulsion bladders catholytes dialysis

∞ diaphragms electrolytic cells membrane structures membranes

optical filters osmosis thin plates thin walls webs (sheets) webs (supports)

#### diastole

GS heart function diastole blood circulation blood flow blood pressure cardiovascular system diastolic pressure heart heart rate

#### diastolic pressure

GS pressure

diastole

systole

blood pressure

diastolic pressure cardiac ventricles

#### diatomic gases

gases

. molecular gases

. . polyatomic gases

... diatomic gases

# diatomic molecules

GS molecules

. polyatomic molecules

. diatomic molecules

low molecular weights methylidyne Morse potential triatomic molecules

diatoms (unicellular plants)

USE algae

DIR

(added February 1997)

diffuse interstellar bands

#### dibasic compounds

RT ∞ chemical compounds monomers

# diborane

boron compounds

diborane

hydrogen compounds

. hydrides

diborane

## dibromides

halogen compounds

. bromine compounds

. . bromides

. dibromides

. halides

. . bromides

#### dibutyl compounds

alkyl compounds
. dibutyl compounds

 $RT \propto chemical \ compounds$ tetrabutvls

#### dicarboxylic acids

GS acids

. carboxylic acids . dicarboxylic acids

organic compounds . carboxylic acids

. dicarboxylic acids

terephthalate

#### dichlorides

GS halogen compounds

. chlorine compounds

. . chlorides

... dichlorides

. halides . . chlorides

... dichlorides

dichlorodiphenyltrichloroethane

USE DDT

#### dichotomies

GS classifications

. hierarchies

. . dichotomies

#### dichroism

electromagnetic properties . optical properties GS

dichroism

color

isochromatics light (visible radiation) photoelasticity

dichromates

USE chromates

## Dicke radiometers

Dicke type radiometers

measuring instruments

. radiation measuring instruments

. . actinometers

radiometers . . . Dicke radiometers

RT bolometers thermopiles

Dicke type radiometers

USE Dicke radiometers

# dictionaries

glossaries

GS documents

. dictionaries abbreviations

coding decoding definition

nomenclatures space glossaries terminology

DEF A mixture of rare earth elements that is freed from cerium. It was once regarded as an element but contains chiefly neodymium and praseodymium and is usually associated with lanthanum. It is used in coloring glass for optical filters

lanthanum neodymium ontical filters praseodymium

### dieldrin

poisons GS

. pesticides

. . insecticides

dieldrin	RT organic chemistry	nutrition
dielectric constant	diencephalon	space flight feeding
USE permittivity	GS anatomy	difference equations
	. nervous system	GS analysis (mathematics)
dielectric loss	central nervous system	. numerical analysis
(added April 2000)	brain	difference equations
DEF The electric energy that is converted into heat in a dielectric material subjected to a	diencephalon hypothalamus	RT approximation differences
changing electric field.	pineal gland	differential equations
GS electrical properties	thalamus	∞ equations
. dielectric properties	RT embryology	finite difference theory
. dielectric loss		linear evolution equations
losses . dielectric loss	dienes GS organic compounds	nonlinear evolution equations
RT dielectrics	. hydrocarbons	numerical stability
energy dissipation	aliphatic hydrocarbons	differences
permittivity	dienes	RT difference equations
distribution as a familia	butadiene	divergence
dielectric materials USE dielectrics	heptadiene hexadiene	finite difference theory gradients
OOL diciconius	polybutadiene	variations
dielectric permeability	polybuladiono	ranalionio
GS permeability	dies	differential absorption lidar
. dielectric permeability	RT casting	(added September 1992)
RT magnetic permeability	coining cutters	UF <i>DIAL (lidar)</i> GS radar
dielectric polarization	extruding	. optical radar
GS polarization (charge separation)	injection molding	differential absorption lidar
dielectric polarization	machine tools	RT absorption spectra
RT dielectrics electrets	molds .	atmospheric sounding
electrets electric fields	pultrusion	backscattering
ciconic neids	punches rheocasting	radar measurement remote sensing
dielectric properties	stamping	Tomoto conomig
GS electrical properties	. •	differential algebra
dielectric properties	diesel engines	USE differential calculus
. dielectric loss . permittivity	GS engines . internal combustion engines	matrices (mathematics)
RT antiferroelectricity	diesel engines	differential amplifiers
capacitance	. piston engines	GS amplifiers
ferroelectricity	. diesel engines	differential amplifiers
∞ properties Sommerfeld waves	RT locomotives	RT analog computers
Sommeneid waves	diesel fuels	error signals operational amplifiers
dielectric waveguides	GS fuels	transistor amplifiers
(added February 1998)	. chemical fuels	translator ampinioro
GS waveguides	hydrocarbon fuels	differential analyzers
dielectric waveguides	diesel fuels	DEF Analog computers designed and used
RT dielectrics microwave transmission	liquid fuels <b>diesel fuels</b>	primarily for solving differential equations.  RT algorithms
optical waveguides	products	analog computers
waveguide antennas	. petroleum products	computerized simulation
waveguide filters	diesel fuels	differential equations
Polos de Con	RT automobile fuels	digital computers
dielectrics DEF Substances that contain few or no free	gasoline	digital integrators
charges and which can support electrostatic	internal combustion engines kerosene	differential calculus
stresses. Used for dielectric materials.	Korocono	UF derivation calculus
UF dielectric materials	diethyl compounds	differential algebra
GS dielectrics	(added July 1992)	GS analysis (mathematics)
. lossless materials . radome materials	GS organic compounds . diethyl compounds	. calculus differential calculus
RT barium titanates	diethyl ether	RT ∞ differentiation
capacitance switches	diethyl hydrogen phosphite (DEHP)	differentiators
capacitive fuel gages	RT ethyl compounds	integral calculus
capacitors	triethyl compounds	limits (mathematics)
ceramics dielectric loss	diethyl ether	minima numerical differentiation
dielectric polarization	GS ethers	optimization
dielectric waveguides	. diethyl ether	real variables
electrets	organic compounds	
electric conductors	. diethyl compounds	differential equations
electrical insulation electromagnetic surface waves	diethyl ether	UF differential operators 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 screen effect	. diethyl bydrogen phosphite	Blasius equation
screen епест spark gaps	diethyl hydrogen phosphite (DEHP)	Chandrasekhar equation cosine series
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 partial differential equations
Diels-Alder reactions	diets	bartial differential equations biharmonic equations
GS chemical reactions	RT caloric requirements	Burger equation
. cycloaddition	fasting	Cauchy-Riemann equations
Diels-Alder reactions	∞ food	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		g
	Fokker-Planck equation	tensor analysis	diffracti	ion
	Gauss equation	RT analytic geometry	DEF	The process by which the direction of
	Helmholtz vorticity equation	∞ analyzing	radiation	n is changed so that it spreads into the
	Liouville equations	curvature	geometi	ric 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 int	erference monochromatization and
	vlasov equations	lofting	Kirchho	ff-Huygens principle.
	Riccati equation	relativity	UF	interference monochromatization
	vorticity equations	•		Kirchhoff-Huygens principle
	Helmholtz vorticity equation	differential interferometry	GS	diffraction
RT	Airy function	GS interferometry		. electron diffraction
	alternating direction implicit methods	. differential interferometry		. Fresnel diffraction
	asymptotic properties	RT flow visualization		. neutron diffraction
	backward differencing	holography		. pulse diffraction
	Bessel functions	Schlieren photography		. wave diffraction
	Bethe-Salpeter equation			. x ray diffraction
	bond graphs	differential operators	RT	atmospheric scattering
	boundary layer equations	USE differential equations		attenuation
	boundary value problems	operators (mathematics)		Bragg angle
	calculus	PM P - I		caustics (optics)
	calculus of variations	differential pressure		crystal optics
	Cauchy problem	GS pressure		Debye-Scherrer method
	Crank-Nicholson method	differential pressure		deflection
	difference equations	RT pressure distribution		diffractometers
	differential analyzers	pressure gradients		echelette gratings
	Dirichlet problem	pressure measurement		echelle gratings
	distributed parameter systems	differential pulse code modulation		electromagnetic radiation
~	equations •	DEF An efficient signal encoding method of		geometrical theory of diffraction
	Floquet theorem	reducing the transmission rate of digital signals.		Huygens principle
	Fourier analysis	The basic principle of DPCM is to quantize code		isochromatics
	Fourier-Bessel transformations	and transmit the difference between the actual		Laue method
	functional integration	sample and prediction value. Used for DPCM		Moire effects
	Green's functions	(modulation).		mosaics
	half planes	UF DPCM (modulation)		optical properties
	Hankel functions	GS coding		ray tracing
	Hill determinant	. signal encoding		refraction
	ill-conditioned problems	pulse modulation		transmission
	(mathematics)	pulse code modulation		wave dispersion
	ill-posed problems (mathematics)	differential pulse code		wave propagation
	integral equations	modulation		
	integrals	modulation		on gratings
	Lagrange multipliers	. pulse modulation	USE	gratings (spectra)
	Lame functions	pulse code modulation	-1:66	
	Laplace transformation	differential pulse code		ion limited cameras
	Liapunov functions	modulation	GS	optical equipment
	linear equations	RT biternary code		. cameras
	linearity	decommutators		. diffraction limited cameras
	Lipschitz condition	linear prediction		photographic equipment
	Mathieu function	P.A.C.M. telemetry		. cameras
	maximum principle	PCM telemetry	RT	diffraction limited cameras astronomical photography
	Milne method	pulse communication	n i	, , ,
	Neumann problem	pulse frequency modulation		spaceborne photography
	nonlinear equations	telemetry		spaceborne telescopes
	nonlinearity	unified S band	diffraction	on optics
	numerical analysis		USE	diffractive optics
	numerical differentiation	differential thermal analysis	USL	amadure opilos
	numerical integration	USE thermal analysis	diffracti	ion paths
	numerical stability	·	RT	Bragg angle
	operational calculus Pfaff equation	∞ differentiation	• • • •	electron trajectories
	potential theory	SN (USE OF A MORE SPECIFIC TERM IS		holographic optical elements
	predictor-corrector methods	RECOMMENDEDCONSULT TERMS LISTED BELOW)		multipath transmission
	Riemann waves	RT anatomy		optical paths
		cytogenesis	•	o paths
	Riesz theorem	cytogenesis differential calculus	۰	paths spherical waves
	Riesz theorem Schauder fixpoint theorem	differential calculus	۰	paths spherical waves
	Riesz theorem Schauder fixpoint theorem Schmidt method	differential calculus differentiation (biology)		
	Riesz theorem Schauder fixpoint theorem Schmidt method spectral methods	differential calculus		spherical waves
	Riesz theorem Schauder fixpoint theorem Schmidt method spectral methods stability derivatives	differential calculus differentiation (biology)	diffracti	spherical waves
	Riesz theorem Schauder fixpoint theorem Schmidt method spectral methods stability derivatives Sturm-Liouville theory	differential calculus differentiation (biology) discrimination	<b>diffract</b> i UF	spherical waves  ion patterns  fringe patterns
	Riesz theorem Schauder fixpoint theorem Schmidt method spectral methods stability derivatives Sturm-Liouville theory vector analysis	differential calculus differentiation (biology) discrimination  differentiation (biology)	<b>diffract</b> i UF	spherical waves  ion patterns fringe patterns distribution (property)
	Riesz theorem Schauder fixpoint theorem Schmidt method spectral methods stability derivatives Sturm-Liouville theory	differential calculus differentiation (biology) discrimination  differentiation (biology) GS cytogenesis	<b>diffract</b> i UF	spherical waves  ion patterns fringe patterns distribution (property) . radiation distribution
425	Riesz theorem Schauder fixpoint theorem Schmidt method spectral methods stability derivatives Sturm-Liouville theory vector analysis Whittaker functions	differential calculus differentiation (biology) discrimination  differentiation (biology) GS cytogenesis differentiation (biology)	<b>diffract</b> i UF GS	spherical waves  ion patterns fringe patterns distribution (property) . radiation distribution diffraction patterns
	Riesz theorem Schauder fixpoint theorem Schmidt method spectral methods stability derivatives Sturm-Liouville theory vector analysis Whittaker functions	differential calculus differentiation (biology) discrimination  differentiation (biology) GS cytogenesis differentiation (biology) RT anatomy	<b>diffract</b> i UF	spherical waves  ion patterns fringe patterns distribution (property) radiation distribution diffraction patterns Section Section 1 Sect
(adde	Riesz theorem Schauder fixpoint theorem Schmidt method spectral methods stability derivatives Sturm-Liouville theory vector analysis Whittaker functions  Itial games and October 1998)	differential calculus differentiation (biology) discrimination  differentiation (biology) GS cytogenesis . differentiation (biology) RT anatomy biological diversity	<b>diffract</b> i UF GS	spherical waves  ion patterns fringe patterns distribution (property) radiation distribution diffraction patterns Kossel pattern rainbows diffractometers Fresnel integrals
	Riesz theorem Schauder fixpoint theorem Schauder fixpoint theorem Schmidt method spectral methods stability derivatives Sturm-Liouville theory vector analysis Whittaker functions  tial games ed October 1998) games	differential calculus differentiation (biology) discrimination  differentiation (biology) GS cytogenesis . differentiation (biology)  RT anatomy biological diversity ∞ biology	<b>diffract</b> i UF GS	spherical waves  ion patterns fringe patterns distribution (property) radiation distribution diffraction patterns Kossel pattern rainbows diffractometers Fresnel integrals Fresnel region
(adde GS	Riesz theorem Schauder fixpoint theorem Schmidt method spectral methods stability derivatives Sturm-Liouville theory vector analysis Whittaker functions  tital games and October 1998) games . differential games	differential calculus differentiation (biology) discrimination  differentiation (biology) GS cytogenesis . differentiation (biology) RT anatomy biological diversity ∞ biology ∞ differentiation	<b>diffract</b> i UF GS	spherical waves  ion patterns fringe patterns distribution (property) . radiation distribution . diffraction patterns Kossel pattern rainbows diffractometers Fresnel integrals Fresnel region fringe multiplication
(adde	Riesz theorem Schauder fixpoint theorem Schmidt method spectral methods stability derivatives Sturm-Liouville theory vector analysis Whittaker functions  Itial games ed October 1998) games . differential games minimax technique	differential calculus differentiation (biology) discrimination  differentiation (biology) GS cytogenesis differentiation (biology) RT anatomy biological diversity biology differentiation embryology	<b>diffract</b> i UF GS	spherical waves  ion patterns fringe patterns distribution (property) radiation distribution diffraction patterns Kossel pattern rainbows diffractometers Fresnel integrals Fresnel region
(adde GS	Riesz theorem Schauder fixpoint theorem Schmidt method spectral methods stability derivatives Sturm-Liouville theory vector analysis Whittaker functions  Itial games and October 1998) games . differential games minimax technique optimal control	differential calculus differentiation (biology) discrimination  differentiation (biology) GS cytogenesis . differentiation (biology) RT anatomy biological diversity ∞ biology ∞ differentiation embryology interleukins	<b>diffract</b> i UF GS	spherical waves  ion patterns fringe patterns distribution (property) radiation distribution diffraction patterns Secondary Se
(adde GS	Riesz theorem Schauder fixpoint theorem Schauder fixpoint theorem Schmidt method spectral methods stability derivatives Sturm-Liouville theory vector analysis Whittaker functions  Itial games and October 1998) games . differential games minimax technique optimal control pursuit-evasion games	differential calculus differentiation (biology) discrimination  differentiation (biology) GS cytogenesis . differentiation (biology) RT anatomy biological diversity  biology differentiation embryology interleukins morphology physiology	<b>diffract</b> i UF GS	spherical waves  ion patterns fringe patterns distribution (property) radiation distribution diffraction patterns Kossel pattern rainbows diffractometers Fresnel integrals Fresnel region fringe multiplication geometrical theory of diffraction holographic interferometry interferometry
(adde GS	Riesz theorem Schauder fixpoint theorem Schauder fixpoint theorem Schmidt method spectral methods stability derivatives Sturm-Liouville theory vector analysis Whittaker functions  Itial games and October 1998) games Idifferential games minimax technique optimal control pursuit-evasion games stochastic processes	differential calculus differentiation (biology) discrimination  differentiation (biology) GS cytogenesis differentiation (biology) RT anatomy biological diversity biology differentiation embryology interleukins morphology physiology  differentiators	<b>diffract</b> i UF GS	spherical waves  ion patterns fringe patterns distribution (property) radiation distribution diffraction patterns Kossel pattern rainbows diffractometers Fresnel integrals Fresnel region fringe multiplication geometrical theory of diffraction holographic interferometry interferometry Moire fringes
(adde GS	Riesz theorem Schauder fixpoint theorem Schauder fixpoint theorem Schmidt method spectral methods stability derivatives Sturm-Liouville theory vector analysis Whittaker functions  Itial games and October 1998) games . differential games minimax technique optimal control pursuit-evasion games	differential calculus differentiation (biology) discrimination  differentiation (biology) GS cytogenesis . differentiation (biology) RT anatomy biological diversity  ⇒ biology  differentiation embryology interleukins morphology physiology  differentiators DEF In computer operations, devices	<b>diffract</b> i UF GS	spherical waves  ion patterns fringe patterns distribution (property) . radiation distribution . diffraction patterns Kossel pattern rainbows diffractometers Fresnel integrals Fresnel region fringe multiplication geometrical theory of diffraction holographic interferometry interferometry Moire fringes Moire interferometry
(adde GS RT	Riesz theorem Schauder fixpoint theorem Schauder fixpoint theorem Schmidt method spectral methods stability derivatives Sturm-Liouville theory vector analysis Whittaker functions  Itial games and October 1998) games I differential games minimax technique optimal control pursuit-evasion games stochastic processes zero sum games	differential calculus differentiation (biology) discrimination  differentiation (biology) GS cytogenesis differentiation (biology) RT anatomy biological diversity biology differentiation embryology interleukins morphology physiology  differentiators DEF In computer operations, devices whose output is proportional to the derivative of	diffracti UF GS RT	spherical waves  fing patterns fringe patterns distribution (property) radiation distribution diffraction patterns Kossel pattern rainbows diffractometers Fresnel integrals Fresnel region fringe multiplication geometrical theory of diffraction holographic interferometry interferometry Moire fringes Moire interferometry null zones
(adde GS RT	Riesz theorem Schauder fixpoint theorem Schmidt method spectral methods stability derivatives Sturm-Liouville theory vector analysis Whittaker functions  Itial games and October 1998) games I differential games minimax technique optimal control pursuit-evasion games stochastic processes zero sum games  Itial geometry	differential calculus differentiation (biology) discrimination  differentiation (biology) GS cytogenesis differentiation (biology) RT anatomy biological diversity biology differentiation embryology interleukins morphology physiology  differentiators  DEF In computer operations, devices whose output is proportional to the derivative of an input signal. In electronics, a transducer	diffracti UF GS RT	spherical waves  fing patterns fringe patterns distribution (property) radiation distribution diffraction patterns Kossel pattern rainbows diffractometers Fresnel integrals Fresnel region fringe multiplication geometrical theory of diffraction holographic interferometry interferometry Moire fringes Moire interferometry null zones optics
(adde GS RT	Riesz theorem Schauder fixpoint theorem Schauder fixpoint theorem Schmidt method spectral methods stability derivatives Sturm-Liouville theory vector analysis Whittaker functions  Itial games and October 1998) games I differential games minimax technique optimal control pursuit-evasion games stochastic processes zero sum games	differential calculus differentiation (biology) discrimination  differentiation (biology) GS cytogenesis differentiation (biology) RT anatomy biological diversity biology differentiation embryology interleukins morphology physiology  differentiators DEF In computer operations, devices whose output is proportional to the derivative of	diffracti UF GS RT	spherical waves  fing patterns fringe patterns distribution (property) radiation distribution diffraction patterns Kossel pattern rainbows diffractometers Fresnel integrals Fresnel region fringe multiplication geometrical theory of diffraction holographic interferometry interferometry Moire fringes Moire interferometry null zones

## diffraction propagation

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

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

lunar scattering
heat transfer
light scattering UF 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

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

	aliffernana a anno a anno ala	
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	umuorourea	EAI 8900 computer
	digesting	EMR 6050 computer
solar cells		Ferranti Mercury computer
4146	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
	rectum	IBM 1130 computer
transport theory		IBM 1401 computer
4146	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	divital company	microcomputers
diliusion welding	digital cameras	personal computers
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RT bonding	(added July 1998)	
burners	GS optical equipment	IBM personal computers
burners Kirkendall effect	GS optical equipment cameras	IBM personal computers Macintosh personal computers
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burners Kirkendall effect metal bonding metal-metal bonding diffusion-convection equation 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 thermodynamic properties  difluorides GS halogen compounds fluorine compounds fluorides difluorides difluorides difluorides fluorides difluorides difluorides difluorides difluorides difluorides fluorides fluorides difluorides fluorides	GS optical equipment . cameras . digital cameras photographic equipment . cameras . digital cameras Photographic equipment . cameras . digital cameras  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 3100 computer . CDC 3200 computer . CDC 3800 computer . CDC 3800 computer . CDC 3800 computer	IBM personal computers Macintosh personal computers Mova computers Nova computer Modcomp II computer Modcomp IV computer Modcomp IV computer parallel computers massively parallel processors Connection Machine MIMD (computers) SIMD (computers) SIMD (computers) PDP 15 computer PDP 7 computer PDP 8 computer PDP 9 computer PDP 10 computer PDP 10 computer PDP 11 computer PDP 11/20 computer PDP 11/40 computer PDP 11/40 computer PDP 11/50 computer PDP 11/50 computer PDP 11/50 computer PDP 11/50 computer PDP 3 computer PDP 11/50 computer PDP 11/50 computer PDP 11/50 computer PDP 3 computer SDS 930 computer SDS 930 computer SDS 930 computer SDS 930 computer SIGMA 5 computer SIGMA 5 computer SIGMA 9 computer SIGMA 9 computer Solomon computers Univac 1105 computer
burners Kirkendall effect metal bonding metal-metal bonding  diffusion-convection equation  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 thermodynamic properties  difluorides  GS halogen compounds . fluorine compounds . fluorides diffuorides calcium fluorides difluorides difluorides difluorides difluorides difluorides difluorides fluorispar . halides fluorspar difluoro compounds GS halogen compounds	GS optical equipment . cameras . digital cameras photographic equipment . cameras . digital cameras Photographic equipment . cameras . digital cameras  RT CCD cameras 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 3100 computer . CDC 3200 computer . CDC 3800 computer	IBM personal computers Macintosh personal computers Mova computers Nova computer Modcomp II computer Modcomp II computer Modcomp IV computer parallel computers massively parallel processors Connection Machine MIMD (computers) SIMD (computers) SIMD (computers) PDP 15 computer PDP 15 computer PDP 8 computer PDP 9 computer PDP 9 computer PDP 10 computer PDP 11 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 11/70 computer PDP 11/50 computer PDP 12 computer PDP 15 computer PDP 15 computer PDP 15 computer PDP 16 computer PDP 17 computer PDP 17 computer PDP 18 computer PDP 19 computer PDP 19 computer PDP 11/40 computer PDP 11/50 computer PDP 11/50 computer SDS 930 computer SDS 930 computer SDS 930 computer SDS 930 computer SIGMA 5 computer SIGMA 5 computer SIGMA 9 computer Univac 1105 computer Univac 1105 computer
burners Kirkendall effect metal bonding metal-metal bonding diffusion-convection equation 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 thermodynamic properties  difluorides GS halogen compounds fluorine compounds fluorides difluorides difluorides difluorides fluorides difluorides difluorides difluorides difluorides difluorides fluorides fluorides difluorides fluorides	GS optical equipment . cameras . digital cameras photographic equipment . cameras . digital cameras Photographic equipment . cameras . digital cameras  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 3100 computer . CDC 3200 computer . CDC 3800 computer . CDC 3800 computer . CDC 3800 computer	IBM personal computers Macintosh personal computers Mova computers Nova computer Modcomp II computer Modcomp IV computer Modcomp IV computer parallel computers massively parallel processors Connection Machine MIMD (computers) SIMD (computers) SIMD (computers) PDP 15 computer PDP 7 computer PDP 8 computer PDP 9 computer PDP 10 computer PDP 10 computer PDP 11 computer PDP 11/20 computer PDP 11/40 computer PDP 11/40 computer PDP 11/50 computer PDP 11/50 computer PDP 11/50 computer PDP 11/50 computer PDP 3 computer PDP 11/50 computer PDP 11/50 computer PDP 11/50 computer PDP 3 computer SDS 930 computer SDS 930 computer SDS 930 computer SDS 930 computer SIGMA 5 computer SIGMA 5 computer SIGMA 9 computer SIGMA 9 computer Solomon computers Univac 1105 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 Univac 1230 computer GS digital systems is reduced or eliminated by transmitting only the . . . Univac Larc computer digital navigation data needed to define motion in the picture, as represented by changes in the areas of continu-... VAX computers navigation . . . . VAX-11 series computers . digital navigation ous white or black. . . 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 hybrid computers IBM computers data processing equipment 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  $\infty$  data vocoders data converters digital simulation voice data processing data processing video compression models GS . mathematical models digital transducers . . digital simulation video data transducers GS simulation . digital transducers interdigital transducers digital electronics . computerized simulation . . digital simulation analog simulation DEF The use of circuits in which there are usually only two states possible at any point. biological models (mathematics) computer systems simulation digitalis The two states can represent any of a variety of 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 digitizers analog to digital converters RT ÜSE 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 ∞ electronics spacecraft television .. 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 . digital elevation models digital systems . Euclidean geometry 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 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 DEF 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 bistable circuits . . IIR filters USE dopa coding RT ∞ filters microwave filters computer programming digital cameras diisocyanates digital integrators digital electronics esters error correcting codes . isocyanates GS circuits digital integrators error detection codes . diisocyanates methodology
 numerical control nitrogen compounds . cyano compounds integrators digital integrators

shift registers

. . isocvanates

binary integration

diisocyanates	. static stability	trimers
dikes (geology)	dimensional stability structural stability	dimethyl compounds
USE rock intrusions	shell stability	(added July 1992)
	RT aspect ratio	GS organic compounds
dilatation	creep properties	. dimethyl compounds
USE stretching	curl (materials)	dimethylhydrazines
dilatational waves	dynamic stability	RT methyl compounds trimethyl compounds
GS elastic waves	Roche limit thermal stability	tilinetriyi compounds
. dilatational waves	tolerances (mechanics)	dimethylhydrazines
RT longitudinal waves	toloranoo (moonamoo)	GS hydrazines
P waves	dimensionless numbers	dimethylhydrazines
S waves seismic waves	GS dimensionless numbers	organic compounds
∞ shear	. Biot number . Froude number	. amines dimethylhydrazines
stretching	. Grashof number	. dimethyl compounds
∞ waves	. Hartmann number	dimethylhydrazines
	. Laval number	RT aerozine
dilatometers	. Lewis numbers	methylhydrazine
USE extensometers	. Mach number	monomethylhydrazines
dilatometry	. mixing ratios	diminution
RT extensometers	. Nusselt number . Peclet number	diminution USE <b>reduction</b>
∞ measurement	. Prandtl number	COL ICUADION
thermal expansion	. Rayleigh number	dimming
diluents	. Reynolds number	RT brightness
RT additives	. high Reynolds number	light emission
∞ agents	low Reynolds number	∞ reduction
combustion products	. Bond number	dimpling
contaminants	. Brinkman number . Richardson number	RT bulging
dispersions	. Schmidt number	metal working
exhaust gases solvents	. similarity numbers	stamping
Solvents	. Stanton number	
dilution	. Strouhal number	Dining Philosophers Problem
GS dilution	RT dimensional analysis	RT distributed processing interprocessor communication
. geometric dilution of precision	fluid flow	problem solving
RT attenuation	heat transfer ∞ numbers	synchronism
concentration (composition)	scaling laws	• • • • • • • • • • • • • • • • • • • •
diffusion dispersing	odanig idwo	dinitrates
disposal	dimensions	GS nitrogen compounds
dissipation	GS dimensions	. nitrates
dissolving	. depth	dinitrates
low concentrations	. diameters	diodes
mixing	. film thickness . fractals	UF p-i-n diodes
purity	. height	GS electronic equipment
∞ reduction waste disposal	scale height	diodes
waste disposal	. length	crystal rectifiers
dimenhydrinate	diffusion length	plasma diodes
GS drugs	. radii	semiconductor diodes
. antihistaminics	Larmor radius	avalanche diodes cryosar
dimenhydrinate	. target thickness . width	Barritt diodes
organic compounds . 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 step recovery diodes
dimensional analysis	engineering drawings fineness ratio	light emitting diodes
dimensional analysis  RT ∞ applications of mathematics	geometry	parametric diodes
aspect ratio	magnitude	photodiodes
dimensionless numbers	particle size distribution	Schottky diodes
dimensions	relativistic effects	tunnel diodes
fibers (mathematics)	∞ span	resonant tunneling diodes
fineness ratio	thickness	varactor diodes thermionic diodes
fluid flow parameterization	topology units of measurement	cesium diodes
scaling laws	volume	RT electron tubes
similarity numbers	volume	ion implantation
thickness ratio	dimercaprol	p-i-n junctions
units of measurement	GS sulfur compounds	rectifiers
	. thiols	semiconductor devices
dimensional measurement	dimercaprol	solions TRAPATT devices
RT deformeters distance measuring equipment	dimerization	triodes
ellipsometry	GS synthesis (chemistry)	varactor diode circuits
∞ measurement	. polymerization	Talasto. alogo offound
micrometers	dimerization	Diode-Transistor-Logic integ circuits
size determination	RT copolymerization	USE DTL integrated circuits
P		Pt
dimensional stability	dimers GS oligomers	Dione  DEE One of the natural catellites of Satura
GS mechanical properties . dimensional stability	GS oligomers . <b>dimers</b>	DEF One of the natural satellites of Saturn orbiting at a mean distance of 378,000 kilome-
structural stability	prepolymers	ters.
shell stability	. dimers	GS celestial bodies
stability	RT monomers	. natural satellites

# diophantine equation

	icy satellites	center,	and producing a maximum of radiation in		current converters (AC to DC)
	Dione		e normal to its axis. The length specified		homopolar generators
	Saturn satellites		verall length. SN (single dipole antennas)		inverted converters (DC to AC)
	Dione	GS	antennas		voltage converters (DC to DC)
RT	Saturn (planet)		. directional antennas	divo at a	urrent concretors
dionbon	tine equation	DT	dipole antennas		urrent generators
	number theory	RT	antenna arrays antenna design	USL	DC generators
ao	. diophantine equation		backfire antennas	direct li	ift controls
RT ∝	equations		o dipoles	RT ∝	∘ control
	•		directors (antenna elements)		lift devices
diorite			lens antennas		
GS	rocks		linear arrays		numerical simulation ed October 1997)
	. igneous rocks		log periodic antennas		A computationally intensive numerical
RT	minerals		log spiral antennas		ch used in computational fluid dynamics,
• • • • • • • • • • • • • • • • • • • •	soils		monopole antennas omnidirectional antennas		eads to the nearly exact solution of a
			parasitic elements (antennas)		of nonlinear, unsteady, time-dependent,
dioxides			radar antennas	three-di	mensional equations. Applications in-
GS	chalcogenides		turnstile antennas		erodynamics, turbulent combustion, en-
	. oxides		Yagi antennas		nsfer theory and non-Newtonian effects.
	dioxides carbon dioxide			UF GS	DNS (numerical analysis) analysis (mathematics)
	flint	•	moments	GS	. numerical analysis
	hydrogen peroxide	GS	moments . dipole moments		direct numerical simulation
	silicon dioxide		electric moments		simulation
	quartz		magnetic moments		. direct numerical simulation
	coesite	RT	domains	RT	computational fluid dynamics
	stishovite		electrical properties		low Reynolds number
ОТ	sulfur dioxides		magnetic domains		Navier-Stokes equation
RT	Karl Fischer reagent		magnetic properties		reacting flow turbulent flow
	peroxides sulfur oxides		Van der Waals forces		turbulent now
	thorium oxides	∞ dipoles		direct p	oower generators
	titanium oxides	SN	(USE OF A MORE SPECIFIC TERM IS	UF	energy converters
			RECOMMENDEDCONSULT THE TERMS	GS	electric generators
	I compounds	DEF	LISTED BELOW) Systems composed of two, separated,		. direct power generators
GS	organic compounds		lectric or magnetic charges of opposite		DC generators
	. hydrocarbons diphenyl compounds	sign.	3		homopolar generators
	diphenyl hydantoin	RT	dipole antennas		electrostatic generators fuel cells
RT ∝	chemical compounds		electric charge		biochemical fuel cells
	р		electric dipoles		hydrogen oxygen fuel cells
	l hydantoin		magnetic dipoles		molten carbonate fuel cells
GS	drugs		magnetic poles monopoles		phosphoric acid fuel cells
	. antihistaminics		orbiting dipoles		regenerative fuel cells
	diphenyl hydantoin organic compounds		polarity		solid oxide fuel cells
	. amines		∘ poles		magnetohydrodynamic generators
	. diphenyl hydantoin		quadrupoles		photoelectric generators photovoltaic cells
	. hydrocarbons		zwitterions		solar cells
	diphenyl compounds	dinnin			vertical junction solar cells
	diphenyl hydantoin	dipping RT	baths		primary batteries
diphosp	shatas		coatings		alkaline batteries
	phosphorus compounds		quenching (cooling)		dry cells
ao	. phosphates		submerging		magnesium cells
	diphosphates		wetting		nickel zinc batteries metal air batteries
	adenosine diphosphate	Divers a	annation.		zinc-oxygen batteries
			quation wave equations		sodium sulfur batteries
diphthe	ria diseases	ao	. Dirac equation		thermal batteries
GS	. infectious diseases	RT «	∞ equations		radioisotope batteries
	bacterial diseases		field theory (physics)		SNAP 7
	diphtheria		Klein-Gordon equation		SNAP 9A
RT	toxic diseases		Lorentz transformations		SNAP 11 SNAP 13
			quantum theory		SNAP 15
diplexer		direct l	proadcast satellites		SNAP 17
GS	antenna components	DEF.	Domestic satellites used for direct TV		SNAP 19
	. antenna couplers diplexers		ssion to home receivers. Used for DBS		SNAP 21
	circuits	(satellite	es).		SNAP 23
	. diplexers	UF	DBS (satellites)		SNAP 27
	communication equipment	GS	artificial satellites		SNAP 29
	diplexers		. communication satellites		thermionic converters SNAP 13
	couplers	DT	direct broadcast satellites		solar blankets
	. antenna couplers	RT	broadcasting domestic satellite communications		thermoelectric generators
RT	diplexers couples		systems		SNAP 3
п	radar antennas		satellite television		SNAP 7
	radar equipment		satellite transmission		SNAP 9A
	television equipment		space commercialization		SNAP 10A
	transformers		space law		SNAP 11
-1: 1 ·			telecommunication		SNAP 15 SNAP 17
dipolar i			television transmission		SNAP 17 SNAP 19
	ed October 2001) zwitterions	direct of	current		SNAP 21
USE	ZWILLEH IOHS	UF	DC (current)		SNAP 23
dipole a	intennas	GS	electric current		SNAP 27
SN	(SINGLE DIPOLE ANTENNAS)		direct current		SNAP 29
DEF	A straight radiator, usually fed in the	RT	alternating current		solar sea power plants

	auxiliary power sources	missile control	RT	handbooks
~	converters	∞ reaction control		manuals
~	electric batteries electric cells	rocket engine control satellite attitude control	directo	rs (antenna elements)
~	electric energy storage	satellite control		antenna components
	energy absorption films	yaw		. parasitic elements (antennas)
	energy conversion	•		directors (antenna elements)
	energy conversion efficiency	directional couplers		antennas
~	generators	GS antenna components		. parasitic elements (antennas)
	heat generation	. antenna couplers directional couplers	RT	directors (antenna elements) dipole antennas
	photoelectric cells solar generators	couplers	111	radio receivers
	solar total energy systems	. antenna couplers		reflectometers
	spacecraft power supplies	directional couplers		reflectors
		RT coupling		rods
directio	n	couplings		Yagi antennas
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	impedance matching	Dirichle	et problem
	LISTED BELOW)	microstrip transmission lines microwave coupling		boundary value problems
RT	autonomy	transmission lines		. Dirichlet problem
	azimuth	yokes	RT	differential equations
	bearing (direction)	,		hyperbolic differential equations
	directivity line of sight	directional solidification (crystals)	c	∞ problems
	management	DEF Controlled solidification (crystal	-11111-1	
	reversing	growth) of molten metal in a casting so as to	dirigible	
		provide feed metal to the solidifying front of the	USE	airships
direction	finders (radio)	casting. GS crystallization	dirt	
	radio direction finders	GS crystallization . directional solidification (crystals)	GS	soils
		growth	ao	. dirt
directio	n finding	. crystal growth	RT	contaminants
	A procedure or process for locating or	directional solidification		dust
localizin	g the origin of radar, acoustical, or opti-	(crystals)		impurities
cal emis		solidification		particles
RT	bearing (direction)	directional solidification (crystals)		rocks
	radio direction finders	RT containerless melts	510	
	signal processing	eutectic composites	DIS	1.15 1.1000)
diua atia	nal autonnas	phase transformations		ed December 1996) distributed interactive simulation
	nal antennas Antennas that radiate or receive radio	dinastianal stability	USE	distributed interactive simulation
	more efficiently in some directions than	directional stability  DEF The property of an aircraft, rocket, etc.,	disabili	ities
	s. Used for tracking antennas.	enabling it to restore itself from a yawing or	UF	handicaps
UF	tracking antennas	sideslipping condition.	RT	auditory defects
GS	antennas	GS dynamic characteristics		blindness
	. directional antennas	. dynamic stability		frustration
	dipole antennas	motion stability	0	∞ inhibition
	helical antennas	attitude stability		paralysis
	horn antennas	directional stability		wheelchairs
	lens antennas	gyroscopic stability	dioorm	amont
	log periodic antennas loop antennas	stability	disarm RT	
	radar antennas	. dynamic stability	111	armed forces (United States)
	radant	motion stability		international cooperation
	reflector antennas	attitude stability		weapons
	parabolic antennas	directional stability gyroscopic stability		
	two reflector antennas	RT aerodynamic stability	disaste	
	rhombic antennas	aircraft stability	DEF	Large-scale drought, glacier move
	slot antennas	controllability		oods, fires, storms, etc.
	steerable antennas	flow stability	RT	
	inertialess steerable antennas	horizontal orientation		casualties
	Yagi antennas	hovering stability		emergencies
RT	antenna arrays	lateral oscillation		first aid sabotage
	antenna gain	lateral stability		Sabolage
	antenna radiation patterns backlobes	longitudinal stability	∞ discha	rge
	boresight error	rotary stability	SN	(USE OF A MORE SPECIFIC TERM IS
	boresights	spacecraft stability stability augmentation		RECOMMENDEDCONSULT THE TERMS
	endfire arrays	vertical orientation	RT	LISTED BELOW) detonation
	microwave antennas	yaw		dispersing
	microwave coupling	yaw		disposal
	missile antennas	directivity		drainage
	monopulse antennas	DEF The ability of an antenna to radiate or		effluents
	omnidirectional antennas	receive more energy in some directions.		ejection
	parasitic elements (antennas)	RT alignment		electric discharges
	radio antennas	anisotropy		electrodeless discharges
	Sommerfeld approximation	collimation		elimination
	and a section to	crystallography		emission
	nal control	∞ direction		exhausting
UF GS	vector control	field strength		expellants
as	attitude control . directional control	instrument orientation		explosions outlets
	. thrust vector control	isotropy look angles (electronics)		outlets
RT	aircraft control	∞ orientation		releasing relieving
	automatic control	· Onemation		ring discharge
000	control	directories		unloading
	helicopter control	DEF Alphabetical, geographical, or classi-		venting
	jet control	fied listings by field of persons, organizations,		- <del>J</del>
	lateral control	programs and/or objects such as instruments,	discha	rge coefficient
	longitudinal control	devices, and products. Use of this term excludes	GS	coefficients
	manual control	directories in computers.		. flow coefficients

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

discriminant analysis (statistics)

discriminant analysis (statistics)

statistical analysis

populations

RT ∞ classifying multivariate statistical analysis

. . . cholera

. . . keratitis

. . . syphilis

. . . typhoid

. . . diphtheria

tuberculosis

GS

USE exploration

Discovery (Orbiter)

Space Shuttle Orbiter 103

manned spacecraft

. space shuttles

	typhus	crushing	RT	chronic conditions
	conjunctivitis	damage		depersonalization
	dermatitis	decay		∞ depression
	contact dermatitis	•	`	detachment
		decomposition		
	fungal diseases	deterioration		diseases
	hepatitis	flaking		∞ disturbances
	meningitis	grinding (comminution)		dithers
	parasitic diseases	ionization		emotional factors
	viral diseases	lysogenesis		human behavior
	acquired immunodeficiency			jet lag
	syndrome	disk galaxies		psychology
	influenza	DEF Galaxies consisting of a central bulge		psychoses
	poliomyelitis	of a spheroidal aggregation of stars and a		violence
	smallpox	surrounding disk of stars fanning outward in a		
	. kidney diseases	thin layer.	disorie	ntation
	kidney stones	GS celestial bodies	SN	(EXCLUDES PHYSICAL OR
	. nephritis	. galaxies	011	MATHEMATICAL MISALIGNMENT)
	. lithiasis	. disk galaxies	GS	disorientation
		RT astrophysics		. desynchronization (biology)
	. metabolic diseases			. disorders
	. narcolepsy	barred galaxies		. jet lag
	. neurasthenia	blazars	RT	biological effects
	. neuritis	elliptical galaxies		Coriolis effect
	. occupational diseases	galactic clusters		detachment
	. osteoporosis	galactic evolution		
	. paralysis	galactic halos		dithers
	. Parkinson disease	galactic nuclei		dizziness
	. pulmonary lesions	galactic rotation		irrationality
	. radiation sickness	galactic structure		misalignment
	. respiratory diseases	local group (astronomy)		psychological effects
	aerosinusitis	radio galaxies		psychology
	asthma	spiral galaxies		staggering
		star clusters		weightlessness
	emphysema			· ·
	influenza	Virgo galactic cluster	dispato	hina
	pneumonia	disk energting system (DOS)	,	distributing
	tuberculosis	disk operating system (DOS)		<b>9</b>
	. rheumatic diseases	(added October 1988)	dispen	eare
	. tachycardia	DEF A program with which the computer	RT	distributors
	. thrombopenia	performs such mundane but useful tasks as	111	
	. thrombosis	storing, locating, and retrieving files on disk,		ejectors
	. tooth diseases	reading the keyboard, and issuing display and		feeders
	. toxic diseases	print information.		materials handling
	benzene poisoning	GS computer programs		rollers
	beryllium poisoning	. computer systems programs		sprayers
	carbon monoxide poisoning	operating systems (computers)		
	carbon tetrachloride poisoning	disk operating system (DOS)	dispers	
		RT assembler routines	SN	(OF MATERIALS OR PARTICLES)
	hydrocarbon poisoning	compilers	RT	agitation
	lead poisoning	computer information security		assimilation
	. tumors	computer systems design		chemical release modules
	neoplasms	∞ disks		circulation
	cancer			cloud dispersal
	leukemias	graphical user interface		colloiding
	. ulcers	input/output routines		deflection
	. urolithiasis	magnetic disks		diffusion
RT	animal models	∞ routines		dilution
	chronic conditions	∞ systems		∞ discharge
	creatinine			∞ dispersion
	cures	∞ disks	`	dispersions
	diagnosis	SN (USE OF A MORE SPECIFIC TERM IS		disposal
	disorders	RECOMMENDEDCONSULT THE TERMS		•
	etiology	LISTED BELOW) RT actuator disks		dissipation
	medical science	disk operating system (DOS)		distributing
	necrosis	disks (shapes)		∞ distribution
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		entrainment
	pathogenesis	intervertebral disks		exhausting
	pathological effects	magnetic disks		fog dispersal
	plant diseases	diaka (ahanaa)		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		releasing
	vaccines	RT accretion disks		scattering
	veterinary medicine	aerodynamic configurations		∞ separation
		bodies of revolution		shaking
dishes		circular plates		spraying
USE	parabolic reflectors	∞ disks		. , ,
	•	∞ plates		spreading
disilicid	les	video disks		stirring
GS	silicon compounds			suspending (mixing)
	. silicides	dislocations (materials)		swirling
	disilicides	GS dislocations (materials)		
RT	silanes	. crystal dislocations	dispers	
111	silicates	. edge dislocations	SN	(USE OF A MORE SPECIFIC TERM IS
	Sinoates			RECOMMENDEDCONSULT THE TERMS
disinfect	tante	screw dislocations	RT	LISTED BELOW) deviation
		RT displacement	nı	diffusion
USE	antiseptics	flow theory		
alie!!		∞ materials		dispersing
disinteg		dia and ana		dispersions
RT	atomizing	disorders		dust
	comminution	GS disorientation		Kramers-Kronig formula
	crushers	. disorders		magnetic dispersion

## dispersion strengthening

mixers RT boresight error ∞ systems random errors shearography target simulators statistical analysis **TERCOM** variability video data display devices video equipment wave dispersion data readout systems viewing display systems dispersion precipitation hardening visual aids visual displays USE precipitation hardening visual control GS display devices warning systems . approach indicators dispersion strengthening flat panel displays (added February 1994) display systems flow direction indicators dispersion strengthening USE display devices . wind vanes . oxide dispersion strengthening gyro horizons alloys disposal head-up displays hardening (materials) heat resistant alloys ĞS disposal helmet mounted displays . waste disposal kinoform ∞ metallurgy . . composting . microvision landing aid ∞ strength . . hazardous material disposal (in . plasma display devices space) . position indicators RT agitation dispersions . . plan position indicators DEF A two-phase system consisting of ∞ containers . . radio direction finders finely devided particles dispersed in a solid, decontamination . . spacecraft position indicators deletion liquid, or gas. . radarscopes dilution GS mixtures . . plan position indicators ∞ discharge . dispersions speed indicators dispersing . . colloids . tachometers dissipation ... aerosols airborne surveillance radar distributing . . . . fog aircraft equipment ∞ distribution . . . colloidal propellants aircraft instruments dumping . . emulsions audio visual equipment ejection . . . photographic emulsions automatic typewriters elimination . nuclear emulsions blinking emptying . . liquid-gas mixtures cancellation circuits exhausting expulsion . . . aerosols cathode ray tubes . . . . fog charts isolation . . plastisols cockpit weather information systems . . smoke jettisoning 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 fog dispersal disrupting electrochromism RT ∞ interference fumes flight control mist rupturing flight instruments particles flying spot scanners dissection particulates graphical user interface RT autopsies slurries human-computer interface pathology slurry propellants image reconstruction suspending (mixing) image tubes imagery dissipation ∞ suspensions dissipators UF images indicating instruments GS dissipation displacement . energy dissipation . ohmic dissipation DEF A vector quantity that specifies the change of position of a body the change of instrument landing systems instrument receivers atmospheric turbulence position of a body or particle usually measured instruments attenuation from the mean position or position of rest. light emitting diodes damping GS displacement decontamination lists . crack opening displacement man machine systems depletion RT 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) 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 or by absoption of a photon. The product of dissociation of a molecule is two ions, one readout temperature inversions real time operation variations positively charged and one negatively charged. Used for molecular dissociation. receivers vibration remote consoles scientific visualization molecular dissociation displacement measurement GS dissociation ∞ screens (MEASUREMENT IN CHANGE OF SN . autoionization situational awareness . biodegradability mechanical measurement solar compasses

∞ strip

. gas dissociation

. displacement measurement

	. photodissociation	∞ range	abnormalities
	. radiolysis	range (extremes)	astigmatism
	thermal dissociation	takeoff runs	asymmetry
RT	atomic recombination	∞ travel	bending
	chemical equilibrium	Tully-Fisher relation	buckling
	Debye-Huckel theory		camber
	decomposition	distance measuring equipment	deflection
	electrodissolution	DEF A radio aid to navigation which pro-	deformation
	heat of dissociation	vides distance information by measuring total	deviation
	ionization	round trip time of transmission from an integrator to a transponder and return.	displacement
	molecular diffusion molecular interactions	GS measuring instruments	expansion failure
	molecular interactions	. distance measuring equipment	failure flexing
dissoluti	on	altimeters	folding
USE	dissolving	laser altimeters	frequency pulling
	<b>g</b>	radio altimeters	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
diccolv	ed organic matter	dimensional measurement	wrinkling
	ed October 1997)	LORAC navigation system loran	distributed smalificus
UF	gelbstoff	lunar rangefinding	distributed amplifiers GS amplifiers
RT	chlorophylls	micrometers	GS amplifiers . distributed amplifiers
	organic solids	navigation	RT frequency response
	phytoplankton	navigation aids	transmission lines
	sea water	omnidirectional radio ranges	transmission into
	sediments	position indicators	distributed Bragg reflector lasers
	solutes	radar	USE <b>DBR lasers</b>
	water color	radar equipment	
	water pollution	radar measurement	distributed feedback lasers
		radar navigation	DEF Lasers containing a periodic medium
dissolv		radio navigation	which provides the necessary feedback for laser
UF	dissolution	range errors	action.
GS	mixing . dissolving	Shoran	GS stimulated emission devices
RT	aeration	solar compasses	. lasers
п	chemical attack	sonar	distributed feedback lasers
	chemical cleaning	sound ranging	RT DBR lasers
	cleaning	distance perception	feedback amplifiers
	compounding	USE space perception	feedback control
	corrosion	OCE Opaco porospilon	heterojunction devices
	diffusion	distillation	laser outputs lasing
	dilution	GS distillation	semiconductor lasers
	dissolved gases	. stripping (distillation)	solid state lasers
	extraction	RT chemical fractionation	
	homogenizing	concentrating	distributed interactive simulation
	leaching	condensing	(added December 1996)
	precipitation (chemistry)	demineralizing	SN ((Multiple simultaneous use of simulation in
~	separation	desalinization	networks)) UF <i>DIS</i>
	softening	diffusion	GS simulation
	solubility solutes	evaporation	. computerized simulation
	solution	flashing (vaporizing) materials recovery	. distributed interactive simulation
	solvent retention	purging	RT computer networks
	solvents	purification	distributed processing
	washing	rectification	, , ,
	g	refining	distributed memory
dissymn	netry	∞ separation	(added April 1997)
UŠE	asymmetry	tar sands	GS memory (computers)
		vaporizing	. distributed memory
distanc		washing	RT architecture (computers)
GS	distance		distributed processing
	. Debye length	distillation equipment	interprocessor communication
	. diffusion length	RT columns (process engineering)	multiprocessing (computers)
	. miss distance . optical slant range	condensers (liquefiers)	parallel processing (computers)
		∞ equipment	
		-410-	distributed perspector systems
	. radar range	stills	distributed parameter systems
	. radar range . radio range		RT control theory
	. radar range . radio range . range and range rate tracking	distortion	RT control theory differential equations
RT	. radar range . radio range . range and range rate tracking . reentry range	distortion DEF An undesired change in waveform. In a	RT control theory differential equations independent variables
RT	. radar range . radio range . range and range rate tracking . reentry range aircraft performance	distortion  DEF An undesired change in waveform. In a system used for transmission or reproduction of	RT control theory differential equations
RT	. radar range . radio range . range and range rate tracking . reentry range	distortion DEF An undesired change in waveform. In a	RT control theory differential equations independent variables integral equations
RT	. radar range . radio range . range and range rate tracking . reentry range aircraft performance aircraft specifications	distortion  DEF An undesired change in waveform. In a system used for transmission or reproduction of sound, a failure by the system to transmit or	RT control theory differential equations independent variables integral equations linear circuits
RT	. radar range . radio range . range and range rate tracking . reentry range aircraft performance aircraft specifications altitude	distortion  DEF An undesired change in waveform. In a system used for transmission or reproduction of sound, a failure by the system to transmit or reproduce a received waveform with exactness.	RT control theory differential equations independent variables integral equations linear circuits linear systems
RT	. radar range . radio range . range and range rate tracking . reentry range aircraft performance aircraft specifications altitude depth	distortion  DEF An undesired change in waveform. In a system used for transmission or reproduction of sound, a failure by the system to transmit or reproduce a received waveform with exactness. An undesired change in the dimensions or	RT control theory differential equations independent variables integral equations linear circuits linear systems network analysis
RT	. radar range . radio range . range and range rate tracking . reentry range aircraft performance aircraft specifications altitude depth dimensions focusing geometry	distortion  DEF An undesired change in waveform. In a system used for transmission or reproduction of sound, a failure by the system to transmit or reproduce a received waveform with exactness. An undesired change in the dimensions or shape of a structure as, distortion of a fuel tank due to abnormal stresses or extreme temperature gradients.	RT control theory differential equations independent variables integral equations linear circuits linear systems network analysis nonlinear systems
RT	. radar range . radio range . range and range rate tracking . reentry range aircraft performance aircraft specifications altitude depth dimensions focusing geometry height	distortion  DEF An undesired change in waveform. In a system used for transmission or reproduction of sound, a failure by the system to transmit or reproduce a received waveform with exactness. An undesired change in the dimensions or shape of a structure as, distortion of a fuel tank due to abnormal stresses or extreme temperature gradients.  GS distortion	RT control theory differential equations independent variables integral equations linear circuits linear systems network analysis nonlinear systems  ∞ systems  distributed processing
RT	. radar range . radio range . range and range rate tracking . reentry range aircraft performance aircraft specifications altitude depth dimensions focusing geometry height length	distortion  DEF An undesired change in waveform. In a system used for transmission or reproduction of sound, a failure by the system to transmit or reproduce a received waveform with exactness. An undesired change in the dimensions or shape of a structure as, distortion of a fuel tank due to abnormal stresses or extreme temperature gradients.  GS distortion  flow distortion	RT control theory differential equations independent variables integral equations linear circuits linear systems network analysis nonlinear systems ∞ systems  distributed processing  DEF Processing with multiple small comput-
RT	. radar range . radio range . radio range . range and range rate tracking . reentry range aircraft performance aircraft specifications altitude depth dimensions focusing geometry height length position (location)	distortion  DEF An undesired change in waveform. In a system used for transmission or reproduction of sound, a failure by the system to transmit or reproduce a received waveform with exactness. An undesired change in the dimensions or shape of a structure as, distortion of a fuel tank due to abnormal stresses or extreme temperature gradients.  GS distortion  . flow distortion  . signal distortion	RT control theory differential equations independent variables integral equations linear circuits linear systems network analysis nonlinear systems ∞ systems  distributed processing DEF Processing with multiple small computers that are capable of operating independently
RT	. radar range . radio range . range and range rate tracking . reentry range aircraft performance aircraft specifications altitude depth dimensions focusing geometry height length	distortion  DEF An undesired change in waveform. In a system used for transmission or reproduction of sound, a failure by the system to transmit or reproduce a received waveform with exactness. An undesired change in the dimensions or shape of a structure as, distortion of a fuel tank due to abnormal stresses or extreme temperature gradients.  GS distortion  flow distortion	RT control theory differential equations independent variables integral equations linear circuits linear systems network analysis nonlinear systems ∞ systems  distributed processing  DEF Processing with multiple small comput-

GS data processing . . diffraction patterns solar activity . distributed processing . . . Kossel pattern storms . . grid computing (computer . . . rainbows sudden ionospheric disturbances networks) . spatial distribution vortices architecture (computers) . . horizontal distribution client server systems . . vertical distribution disturbing functions computer networks . . . star distribution functions (mathematics) computer systems design . . geographic distribution disturbing functions Dining Philosophers Problem . strain distribution perturbation theory distributed interactive simulation . stress distribution distributed memory . . stress concentration disulfides microprocessors temperature distribution GS chalcogenides service oriented architecture velocity distribution . sulfides . disulfides chemical composition transputers VSAT (network) ∞ cross sections . . carbon disulfide sulfur compounds wide area networks  $\infty$  distribution dynamic characteristics . sulfides field theory (physics) . . disulfides distributing dispatching gradients . . . carbon disulfide jet lift lift RT allocations assimilation ditches commercial energy ∞ patterns RT canals irrigation landforms dispersing ∞ profiles rotor lift disposal statistical distributions troughs synthetic arrays domestic energy ∞ ditching zero lift ∞ food (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) industrial energy SN distribution functions inventory controls The density functions or number of materials handling ditching (landing) particles per unit volume of phase space. The positioning excavation distribution functions are a function of the three proportion space coordinates and the three velocity coorresource allocation ditching (excavation) dinates transportation USE excavation functions (mathematics) GS transportation energy . distribution functions
. . probability distribution functions
Chapman-Enskog theory ditching (landing) GS crashes (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) . crash landing discrete functions . . ditching (landing) maximum entropy method landing
. ditching (landing) RT allocations ∞ nets assimilation probability theory brightness distribution circulation distribution aircraft accidents statistical distributions demography distribution moments water landing dispersing statistical moments disposal GS moments dithers distributing . distribution moments GS shaking distribution (property) . . mean . . orthogonality
. . standard deviation . dithers geographic distribution shivering kurtosis dithers load distribution (forces) average RT disorders mass distribution median (statistics) disorientation materials handling method of moments emotional factors positioning mode (statistics) pressure distribution human behavior skewness spectral energy distribution ∞ inhibition statistical distributions statistical distributions irrationality variance (statistics) vacillation thrust distribution transportation distributors dithiols commutators USE thiols **distribution (property)**UF pattern distribution dispensers feeders diuresis distribution (property) ignition systems RT body fluids angular distribution internal combustion engines edema Boltzmann distribution materials handling urination . brightness distribution rollers vasopressins . charge distribution sprayers . current distribution **District of Columbia** diuretics . electron distribution nations GS diuretics . electron density profiles GS United States . aminophylline energy distribution **District of Columbia** acetazolamide . spectral energy distribution Potomac River Valley (MD-VA-WV) RT flow distribution ureas force distribution disturbance theory . frequency distribution diurnal rhythms USE perturbation theory . kurtosis USE circadian rhythms . hole distribution (electronics) . hole distribution (mechanics) diurnal variations (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS SN . interference lift GS variations . ion distribution . periodic variations LISTED BELOW) bursts . diurnal variations . load distribution (forces) . mass distribution disorders cycles . moment distribution electromagnetic interference darkness . neutron distribution ionospheric disturbances daytime . pressure distribution ionospheric storms magnetic variations . radial distribution magnetic disturbances niaht . radiation distribution perturbation nocturnal variations . . antenna radiation patterns radio auroras photoperiod

radio bursts

tropopause

. . . sidelobes

	wind variations	RT	barotrauma		. DO-28 aircraft
			decompression sickness		general aviation aircraft
diverge			human tolerances		. DO-28 aircraft
	The expansion or spreading out of a		medical phenomena		light aircraft
	ield; also a precise measure thereof. A		physiological effects		. DO-28 aircraft
	stability of a lifting surface or of a body		underwater physiology		monoplanes
	ehicle wherein the aerodynamic loads		underwater tests		. DO-28 aircraft
	to deform surface or body are greater e elastic restoring forces.	∞ divisio	n		passenger aircraft
GS	divergence	∞ uivisio SN	(USE OF A MORE SPECIFIC TERM IS	DT	. DO-28 aircraft
ao	magnetic charge density	011	RECOMMENDEDCONSULT THE TERMS	nı (	∞ aircraft
RT	catastrophe theory	DT	LISTED BELOW)		
	convergence	KI	cell division		aircraft
	deviation		dividing (mathematics) number theory	UF	Dornier DO-31 aircraft
	differences		∞ separation	GS	Dornier aircraft . DO-31 aircraft
	displacement		subdivisions		jet aircraft
c	∞ drift		subsidiaries		. turbofan aircraft
	Fourier analysis				DO-31 aircraft
	functions (mathematics)		(voice translators)		monoplanes
	geostrophic wind	USE	digital to voice translators		DO-31 aircraft
	refraction series (mathematics)				transport aircraft
	series expansion	dizzine			. DO-31 aircraft
	variations		ed August 2004)  An imprecise term which may refer to a		V/STOL aircraft
	vortices		of spatial disorientation, motion of the		DO-31 aircraft
			ment, or lightheadedness.	RT -	∞ aircraft
	ent nozzles	GS	signs and symptoms		
RT	conical nozzles		. dizziness	DO-328	3 aircraft
	exhaust nozzles	RT	acceleration stresses (physiology)		led September 1994)
	nozzle geometry		disorientation	GS	commercial aircraft
	nozzle walls		motion sickness		DO-328 aircraft
c	∞ nozzles				Dornier aircraft
	rocket nozzles thrust chambers	Djibout			. DO-328 aircraft
	wind tunnel nozzles		led February 1989)		jet aircraft
	WING turiner nozzies	GS	nations		. turboprop aircraft DO-328 aircraft
diverte	rs	RT	. <b>Djibouti</b> Africa		passenger aircraft
GS	diverters	וח	Airica		. DO-328 aircraft
	. divertors (fusion reactors)	DME-A	satellite		transport aircraft
RT	baffles		Explorer 31 satellite		. DO-328 aircraft
	blast deflectors		,	RT «	∞ aircraft
	bypasses	DMSP	satellites		
	deflectors		Satellites of the defense meteorologi-	dockin	α
c	∞ diffusers dividers		ellite program, a program sponsored by		led May 2005)
	flame deflectors		ted States Air Force System Command's	GS	maneuvers
	≈ separation		Division which provides timely global		. docking
	separators		and specialized meteorological data for		autonomous docking
	shielding		ing a variety of Department of Defense ons. Used for Defense Meteorological		offshore docking
	valves		e Program.		spacecraft docking
		UF	Defense Meteorological Satellite	RT	interception
	rs (fusion reactors)	0.	Program		mooring
`	ed March 1995)	GS	artificial satellites		multiple docking adapters
GS	diverters		. meteorological satellites		
РΤ	. divertors (fusion reactors)		DMSP satellites		ent indexing
нı	limiters (fusion reactors)		military spacecraft		led April 2000)
	magnetic field configurations plasma control		. DMSP satellites	USE	indexing (information science)
	tokamak devices	RT	air defense		
	tonaman dovidoo	•	∞ defense	docum	ent markup languages
divider	s		defense program meteorology		led July 1995)
SN	(EXCLUDES VOLTAGE AND FREQUENCY		photomapping		Standardized nomenclatures that
GS	DIVIDERS)		photoreconnaissance		the organization of complex text (includ-
do	separators . dividers		remote sensing		hnical and scientific notation, graphics,
RT	baffles		satellite-borne photography		ages) and define the document type, data ts within the document, and the relation-
	∞ barriers		3 4 7		etween data elements for electronically
	curtains	DNA			ed, stored, interchangd, and published
	diverters	USE	deoxyribonucleic acid	docume	
	panels			UF	
	spacers		umerical analysis)		HTML
			ed October 1997)		HYTIME
	(landforms)	USE	direct numerical simulation		markup languages
GS	landforms	DO-27	aircraft		SGML
RT	. divides (landforms)	UF	Dornier DO-27 aircraft		SPDL
п	drainage patterns mountains	GS	Dornier aircraft	GS	languages
	watersheds	45	. DO-27 aircraft	5.7	. document markup languages
	Watersheas		general aviation aircraft	RT	documentation
dividin	g (mathematics)		. DO-27 aircraft		electronic publishing
GS	number theory		light aircraft		human-computer interface
	. dividing (mathematics)		. DO-27 aircraft		hypertext information transfer
RT	arithmetic		monoplanes		printing
	computation		. DO-27 aircraft		standards
	congruences		passenger aircraft		
c	∞ division		. DO-27 aircraft	docum	ont storage
	quotients	HI.	∞ aircraft	aocum RT	ent storage data storage
diving	(underwater)	DO-28	aircraft	M I	data storage documentation
GS	submerged bodies	UF	Dornier DO-28 aircraft		∞ files
	<b>U</b>				

DO-28 aircraft
UF Dornier DO-28 aircraft
GS Dornier aircraft

diving (underwater)
GS submerged bodies
. diving (underwater)

reproduction (copying)

~	storage		doghouses (electronics)		energy consumption
docume	entation		radar equipment		energy conversion
SN	(LIMITED TO WRITTEN MATERIAL THAT	RT	. doghouses (electronics) enclosures		industrial energy solar cooling
	ACCOMPANIES, EXPLAINS, SPECIFIES	1111	radar antennas		solar houses
	OR DESCRIBES EQUIPMENT OR SYSTEMS)				transportation energy
	The assembling, coding, and dissemi-	dogs			water heating
_	f recorded knowledge.	GS	animals	4	is catallite communications systems
GS	literature . documentation		. vertebrates mammals	RT	tic satellite communications systems communication satellites
RT	acquisition		dogs	111	direct broadcast satellites
• • • •	bibliographies	RT	wolves		microwave transmission
	biography				RCA Satcom satellites
	case histories	dollies	aurface vehicles		satellite networks
	catalogs (publications)	GS	surface vehicles . dollies		satellite transmission
	conferences data retrieval	RT	carriages	0	∘ systems
	document markup languages		materials handling	domina	ince
	document storage		sleds	GS	dominance
	documents		trucks		. eye dominance
	histories		undercarriages	RT	genetics
	indexes (documentation)	dolomit	te (mineral)	Domini	
	information		A common rock-forming rhombohedral	Domini GS	ca landforms
	information dissemination		consisting of calcium, magnesium, and	do	. islands
	information resources management information retrieval		ites. It is used for refractory products.		West Indies
	knowledge	GS	carbon compounds		Dominica
	lessons learned		. carbonates		nations
	libraries		dolomite (mineral)		. Dominica
	news		magnesium compounds . dolomite (mineral)	Domini	een Denublie
	records		minerals	GS	can Republic nations
~	reference systems		. dolomite (mineral)	ao	. Dominican Republic
	reports selective dissemination of information	RT	aggregates	RT	Caribbean region
	space glossaries		limestone		Caribbean Sea
	summaries		rocks		
	technical writing		sedimentary rocks		propellants
	technology transfer	dolphin	ie.	GS	propellants . high energy propellants
	translating	GS	animals		Domino propellants
docume	ante	-	. vertebrates	RT	plasticizers
UF	publications		mammals		rocket oxidizers
GS	documents		marine mammals		solid rocket propellants
	. abstracts		dolphins	Danatal	lla Lagiatica Madula (ICC)
	. bibliographies	domain	wall		llo Logistics Module (ISS) ed April 2005)
	. catalogs (publications)	RT	domains		Multi-Purpose Logistics Modules
	astronomical catalogs . congressional reports		ferroelasticity	002	man raipeee Legienee meanee
	. dictionaries		magnetic domains	Donnel	I equations
	. drawings	۰	o motion	RT	buckling
	engineering drawings			0	equations
	blueprints	domain GS	s domains		stress analysis
	. handbooks	us	. magnetic domains	donor r	naterials
	user manuals (computer programs)	RT	dipole moments		semiconductors (materials)
	. manuals installation manuals		domain wall		. donor materials
	user manuals (computer programs)		electrical properties	RT	antisite defects
	. papers		range (extremes)		carrier density (solid state)
	. periodicals	∞ domes			doping (materials)
	. postlaunch reports	SN	(USE OF A MORE SPECIFIC TERM IS		electrons holes (electron deficiencies)
	. Presidential reports	0.1	RECOMMENDEDCONSULT THE TERMS	۰	o materials
	. proposals . records	RT	LISTED BELOW) domes (geology)		modulation doping
	video disks	1111	domes (structural forms)		3
	. supplements		,	doors	
	. textbooks		(geology)	UF	exits (doors)
	. texts	GS	geology	RT	air locks
	. theses	ОТ	. domes (geology) anticlines		apertures curtains
RT	conferences	RT	anticlines ∘ domes		egress
	copyrights documentation	_	geosynclines		entrances
	electronic publishing		synclines		floors
	format		•		gates (openings)
	hardware utilization lists		(structural forms)		hatches
	indexes (documentation)	GS	shells (structural forms)		ingress (spacecraft passageway)
	information retrieval libraries		. domes (structural forms) radomes		openings outlets
	literature	RT ∘	· cupolas	۰	∘ thresholds
	reports		o domes		windows (apertures)
	technology transfer		hemispherical shells	_	
			housings	dopa	A. internal in
Dodge s			pressure vessels		An intermediate organic compound
GS	artificial satellites		protuberances		ed by oxidation of tyrosine by tyramine; intermediate product in the synthesis of
	. Dodge satellite	domest	ic energy		inephrine and melanin. Used for dihy-
doghou	ses (electronics)	RT	allocations		nenylalanine.
	Small enclosures placed at the base of		commercial energy	ÚĖ	dihydroxyphenylalanine
	ting antenna towers to house antenna		distributing	GS	acids
	quipment.		economic factors		. amino acids
GS	housings	0	∘ energy		dopa

organic compounds Doppler navigation . amino acids air navigation radiation measurement all-weather air navigation . dopa RT ∞ chemical compounds dead reckoning dose dopamine radar navigation USE dosage melanin radio navigation satellite doppler positioning oxidation dosimeters pigments DEF Instruments for measuring the ultravio-Doppler radar let in solar and sky radiation. Devices worn by dopamine DEF Radar which utilizes the Doppler effect persons working around radioactive material, . (added June 1997) to determine the radial component of velocities which indicate the dose of radiation to which catecholamine of relative radar targets or to select targets thay have been exposed. Used for dosimetry. having particular radial velocities. dopa dosimetrv drugs radar measuring instruments GS epinephrine . Doppler radar . radiation measuring instruments
. . radiation detectors neurophysiology . . multistatic radar neurotransmitters . . pulse Doppler radar ... dosimeters ... monopulse radar norepinephrine ... threshold detectors (dosimeters) . Shuttle Imaging Radar RT actinometers doped crystals airborne radar dosage GS crystals coherent radar exposure doped crystals continuous wave radar flux (rate) crystal growth monopulse radar flux density crystal optics moving target indicators Geiger counters polystation doppler tracking system crystal structure ionization chambers doping (materials) pulse radar irradiation fullerides radar detection neutron counters gadolinium-gallium garnet radar equipment nuclear emulsions MODFETS radar navigation photographic measurement modulation doping radar networks proportional counters neutron transmutation doping radar tracking radiant flux density satellite doppler positioning radiation counters dopes sodar radiation dosage RT additives surveillance radar radiation effects fillers radiation hazards finishes Doppler-Fizeau effect radiation measurement gels The Doppler effect applied to a source radiobiology primers (coatings) of light. When the distance between the observer and the source of light is diminishing, the sealers dosimetry lines of the spectrum are displaced towards the doping (additives)
USE additives USE dosimeters violet, and, when the distance is increasing, they additives are displaced toward the red, the displacement being proportional to the relative velocity of double base propellants doping (materials) DEF Solid rocket propellants using two unapproach or recession. (added June 2003) Doppler effect stable compounds, such as nitrocellulose and The incorporation of impurities into sili-Doppler-Fizeau effect nitroglycerin. The unstable compounds used in a con or other semiconductor materials in order to blue shift double based propellant do not require a sepamodify the conductivity or other electrical properties of these materials effects rate oxidizer. Used for cordite. Fizeau effect UF cordite doping (materials)
. modulation doping GS frequency shift GS propellants radar navigation . double base propellants neutron transmutation doping red shift . double base rocket propellants additives stellar motions cellulose nitrate crystal lattices composite propellants donor materials endothermic fuels Dornier aircraft doped crystals GS Dornier aircraft explosives ion implantation DO-27 aircraft nitroglycerin semiconductor devices . DO-28 aircraft plastisols semiconductors (materials) DO-31 aircraft pyrotechnics DO-328 aircraft Doppler effect RT ∞ aircraft double base rocket propellants The change in frequency with which GS gels energy reaches a receiver when the receiver Dornier DO-27 aircraft double base rocket propellants and the energy source are in motion relative to USE DO-27 aircraft propellants each other. Used for DOVAP and stellar Doppler . double base propellants Dornier DO-28 aircraft double base rocket propellants UF DOVAP USE DO-28 aircraft . rocket propellants stellar Doppler shift . . solid rocket propellants GS Doppler effect Dornier DO-31 aircraft . . . double base rocket propellants Doppler-Fizeau effect USE DO-31 aircraft . solid propellants blue shift . . solid rocket propellants effects Dornier paraglider rocket vehicle double base rocket propellants elastic waves rocket vehicles cellulose nitrate electromagnetic radiation . single stage rocket vehicles composite propellants Fizeau effect . Dornier paraglider rocket vehicle explosives frequency shift . sounding rockets nitroglycerin optical heterodyning . Dornier paraglider rocket vehicle radial velocity liquid propellant rocket engines double cusps UF osculations satellite doppler positioning dorsal sections geometry GS stellar motions RT anatomy . cusps (mathematics) posterior sections . double cusps Doppler navigation DEF Dead reckoning performed automatically by a device which gives a continuous  $RT \, \infty \, cusps$ dosage UF dose

dosage

dosimeters

radiation dosage

sublethal dosage

biological effects

GS

RT

indication of position by integrating the speed

derived from measurement of the Doppler effect

of echoes from directed beams of radiant energy

transmitted from the craft.

GS navigation

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double precision arithmetic

. arithmetic

number theory

RT arithmetic and logic units

double precision arithmetic

∞ numbers	GS storms	RT Giacobini-Zinner comet
double sideband transmission	. storms (meteorology)	
GS transmission	downbursts	∞ draft
. electromagnetic wave transmission	microbursts (meteorolog	gy) SN (USE OF A MORE SPECIFIC TERM IS
radio transmission	RT aviation meteorology	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)
double sideband transmission	flight hazards	RT boundary layers
. signal transmission	thunderstorms	downwash
radio transmission	vertical air currents	draft (gas flow)
double sideband transmission	wind shear	drafting (drawing)
RT modulation		upwash
sidebands	down-converters	wakes
single sideband transmission	GS frequency converters	
television transmission	down-converters	draft (gas flow)
wave propagation	RT ∞ converters	RT ∞ draft
wave propagation	frequency dividers	flues
double stars	1. P.17.	ventilation
DEF Stars which appear as single points of	downlinking	- /data - ta
light to the eye but which can be resolved into	DEF The transmission of signals	
two points by a telescope. A double star is not	formation, etc.) from satellites to gro	RT ∞ draft
necessarily a binary, a two star system revolving	nals. RT carrier to noise ratios	∞ drawing
about a common center, but may be an optical		drawings
double, two unconnected stars in the same line	communication satellites	graphic arts
of sight.	frequency reuse	
GS celestial bodies	ground stations microwave transmission	drafting machines
. stars	satellite transmission	RT computer aided design
double stars	transmission efficiency	∞ design
binary stars	uplinking	∞ machinery
cataclysmic variables	аршкиз	
companion stars	downrange	drag
Nemesis (star)	•	DEE A retarding force acting upon the direct
eclipsing binary stars	DEF The airspace extending do on a given rocket test range.	tion of motion of the body. It is a component of
dwarf novae	RT ballistic ranges	the total fluid forces acting on the body. Used for
Lambda Tauri stars	ballistic trajectories	drag effect.
Zeta Aurigae star		UF drag effect
Sigma Orionis	flight tests impact prediction	GS dynamic characteristics
symbiotic stars	missile ranges	. drag
x ray binaries	recovery zones	electrostatic drag
RT astrometry	test ranges	friction drag
stellar motions	touchdown	aerodynamic drag
double-layer capacitors	trajectories	supersonic drag
(added September 2003)	trajectories	viscous drag
USE electrochemical capacitors	Downrange Antimissile Measureme	ent induced drag
	Program	minimum drag
doughnut shape wheels	UF DAMP program	pressure drag
USE toroidal wheels	GS programs	supersonic drag
Douglas sirereft	. Downrange Antimissile	wave drag
Douglas aircraft	Measurement Pro	ogram interference drag
GS McDonnell Douglas aircraft	RT ∞ measurement	satellite drag
. <b>Douglas aircraft</b> A-1 aircraft	TT ** measurement	RT aerodynamic configurations
A-3 aircraft	downrange measurement	aerodynamics
A-4 aircraft	RT ∞ measurement	boundary layers
B-66 aircraft	test ranges	∞ drag coefficients
C-9 aircraft	g	drag measurement
C-47 aircraft	downtime	friction
C-54 aircraft	DEF A period during which equipr	ment is not gravitation
C-118 aircraft	operating correctly because of machi	ine failure ground effect (aerodynamics)
C-124 aircraft	GS time	IIIL
C-133 aircraft	. downtime	skin friction
D-558 aircraft	RT failure	wakes
DC 3 aircraft	inventory management	
DC 7 aircraft	logistics	drag balance
DC 8 aircraft	maintenance	USE aerodynamic balance
DC 9 aircraft	malfunctions	lift drag ratio
DC 10 aircraft	MTBF	drag shutos
PD-808 aircraft	reliability	drag chutes
X-3 aircraft	spare parts	UF drogue parachutes GS brakes (for arresting motion)
RT ∞ aircraft	system failures	GS brakes (for arresting motion) . aerodynamic brakes
Douglas D-558 aircraft	turnaround (STS)	drag chutes
USE <b>D-558 aircraft</b>		drag devices
OSL D-336 all Clait	downwash	. aerodynamic brakes
Douglas DC-3 aircraft	RT backwash	drag chutes
USE DC 3 aircraft	∞ draft	novachutas
December DO 7 sins "	ground effect (aerodynamics	s) paracrities . drag chutes
Douglas DC-7 aircraft	helicopter wakes	RT aircraft brakes
USE DC 7 aircraft	lift augmentation	airdrops
Douglas DC-8 aircraft	peripheral jet flow	ballutes
USE DC 8 aircraft	upwash	ribbon parachutes
OOL DO CANOTAIL	wakes	towed bodies
Douglas DC-9 aircraft	DDOM ( ) / / / )	
USE DC 9 aircraft	DPCM (modulation)	odulation ∞ drag coefficients
Douglas PD 909 aircraft	USE differential pulse code mo	SN (USE OF A MORE SPECIFIC TERM IS
Douglas PD-808 aircraft	Description of the Color	RECOMMENDEDCONSULT THE TERMS
USE PD-808 aircraft	Draconid meteoroids	LISTED BELOW)
DOVAP	GS celestial bodies	DEF The ratios of drag to the products of
USE Doppler effect	. meteoroid showers	dynamic pressures and reference areas.
••	Draconid meteoroids	RT aerodynamic coefficients
downbursts	. meteoroids	aerodynamic drag
(added March 1991)	Draconid meteoroids	drag

	hydrodynamic coefficients		rectangular drainage		drift rate
droa do	vinna	RT	arroyos		flight paths
drag dev UF	dragulators		divides (landforms) flood damage		ionospheric drift stability
	drag devices		hydrology		Stability
	. aerodynamic brakes		irrigation	drift (in:	strumentation)
	ballutes		Mississippi River (US)	UÈ	instrument drift
	drag chutes	0	patterns	RT	accuracy
	split flaps		precipitation (meteorology)		circuit reliability
	wing flaps		tributaries	~	drift
	leading edge flaps		water erosion		drift rate
	leading edge slats		water flow		dynamic stability
	trailing edge flaps		watersheds		errors
	vortex flaps	,			instrument errors
	. spoilers	draining			static stability
	abort apparatus aircraft brakes	USE	drainage		tolerances (mechanics)
	boundary layer control	∞ drawin	n	drift rate	e
	brakes (for arresting motion)	SN	(USE OF A MORE SPECIFIC TERM IS	DEF	The amount of drift,in any of its several
	control surfaces	0.1	RECOMMENDEDCONSULT THE TERMS	senses,	per unit time. Drift rate has many spe-
	flaps (control surfaces)	DT	LISTED BELOW)		anings in different fields. The type of drift
	lift devices	RT	bundle drawing		uld always be specified.
	skin friction		cold drawing drafting (drawing)	GS	rates (per time)
	vortex alleviation		drawings		. drift rate
			extruding	RT ∝	
drag effe			layouts		drift (instrumentation)
USE	drag		metal drawing		ionospheric drift
			pulling		mobility
	ce anemometers		records		orbit perturbation
	Instruments for measuring both the		stretch forming		orbital mechanics
	d dynamic velocity head and flow in high		stretching		rotating plasmas
	y, unsteady flow.		tempering		stability
	measuring instruments . anemometers				trajectory control
	drag force anemometers	drawing		drill bits	8
	flow measurement	UF	elevations (drawings)		cutters
	instruments	GS	documents		. drill bits
	velocity measurement		. drawings		tools
	,		engineering drawings		. drill bits
drag me	asurement	DT	blueprints	RT	bits
	mechanical measurement	RT	charts		drilling
	. drag measurement	•	cross sections		drills
RT	aerodynamic drag		diagrams dimensions	4.202	
	drag		drafting (drawing)	drilling	deliller er
	electrostatic drag	۰	odrawing	GS	drilling
	flow measurement	_	graphic arts	RT	. laser drilling boreholes
	measurement		inks	וח	
	measuring instruments		layouts		core sampling cutting
dua a ua a	luation.	۰	plans		drill bits
drag red RT		0	projection		drills
	aerodynamic drag fluid flow		representations		exploration
	friction		reproduction (copying)		machining
	induced drag		specifications		micromachining
	lift drag ratio	0	tracing		natural gas exploration
	reduction		visual aids		offshore energy sources
	riblets				oil exploration
	winglets	DRC (ca			oil fields
	3	USE	Discoverer recovery capsules		penetration
dragulate	ors				perforating
	brakes (for arresting motion)	dreams RT	rapid eye movement state		piercing
	drag devices	n i	i i i i i i i i i i i i i i i i i i i		tunneling (excavation)
alara 1 :			sleep		wells
drainage		dredge	d materials	drills	
	draining		Sand, mud, silt, gravel, etc., recovered	GS	cutters
	runoffs		bottoms of harbors, canals, etc., during	0.0	. drills
	discharge		g operations.		tools
	evacuating (vacuum) excavation		channel flow		. drills
	flood control	0	channels	RT	boring machines
	hydrology	0	materials		compressed air
	hydrology models		sediments		drill bits
	irrigation				drilling
	liquid wastes	dredgin			machine tools
	mines (excavations)	DEF	•		taps
	permeability		ater material. Used in maintaining and		
	pumping		of channels and ports as well as under-	drinking	•
	seepage		ining of sand, gravel, and minerals.	GS	ingestion (biology)
	sewers	RT	artificial harbors	DT	drinking
	sumps		harbors	RT	beverages
	tunneling (excavation)		mineral deposits		swallowing
	waste disposal		mining underwater resources	∞ drives	
	water flow		unuerwater resources	∞ arives SN	(USE OF A MORE SPECIFIC TERM IS
	water runoff	∞ drift		SIN	RECOMMENDEDCONSULT THE TERMS
	water tables	∞ unit SN	(USE OF A MORE SPECIFIC TERM IS	5-	LISTED BELOW)
alara 1 :		OIN	RECOMMENDEDCONSULT THE TERMS	RT	mechanical drives
	e patterns	DT	LISTED BELOW)		motivation
	dendritic drainage	RT	divergence		propulsion
	interlacing drainage		divergence		sex
	radial drainage patterns		drift (instrumentation)		sleep

	wind tunnel drives	clouds (meteorology)		rawinsondes
drogue p	arachutes	condensates condensing	Drosop	hila
USE	drag chutes	fog	GS	animals
drogues		humidity		. invertebrates
	towed bodies	hydrogen clouds nucleation		arthropods insects
		particle diffusion		Drosophila
drone ai		particle size distribution	RT	chironomus flies
DEF drone he	Remotely controlled aircraft. Used for licenters	∞ precipitation	drough	•
	drone helicopters	precipitation particle measurement raindrops	<b>drough</b> i UF	drought conditions
	drone vehicles	size distribution	RT	arid lands
	. drone aircraft target drone aircraft			conservation
	Firebee 2 target drone aircraft	drop tests UF drop weight tests		desertification floods
	Jindivik target aircraft	UF drop weight tests RT Charpy impact test		hydrology
	pilotless aircraft	destructive tests		potable water
	. drone aircraft target drone aircraft	impact testing machines		precipitation (meteorology)
	Firebee 2 target drone aircraft	impact tests notch tests		water consumption water management
	Jindivik target aircraft	shock tests		water pollution
	aircraft antisubmarine warfare aircraft	∞ tests		water reclamation
	DAST program	draw tawara	drought	conditions
	light aircraft	drop towers  DEF Large devices for low gravity process-		drought
	military aircraft	ing of molten material which consist of either a		_
	oblique wings remotely piloted vehicles	capsule which is dropped, or a drop tube where	drowsin USE	
	research aircraft	containerless low gravity studies are conducted	USL	sieep
	V/STOL aircraft	or both. Used for drop tubes.  UF drop tubes	drug the	
drana ha	ligantora	RT falling spheres	USE	chemotherapy
drone he USE	drone aircraft	gravitational effects	drugs	
	helicopters	low gravity manufacturing microgravity	UF	chemotherapeutic agents
	1.1.1.	weightlessness	GS	drugs
drone ve	enicies drone vehicles	3		. adrenergics . aminophylline
	. drone aircraft	drop transfer		. anesthetics
	target drone aircraft	GS transferring . drop transfer		chloroform
	Firebee 2 target drone aircraft	RT arc melting		cyclopropane
	Jindivik target aircraft military aircraft	melting		methyl chloride novocain
	pilotless aircraft	plasma jets		. antiadrenergics
	Sandpiper target missile	refining		. antibiotics
	vehicles winged vehicles	drop tubes		actinomycin penicillin
~	winged vehicles	USE drop towers		pleurotin
	or Aerodynamic and Struct Test	dran waight taata		streptomycin
USE	DAST program	drop weight tests		tetracyclines
		USE drop tests		
drooped	airfoils	USE drop tests		. anticonvulsants
DEF	A baseline airfoil with an abrupt	dropouts		
DEF change in	A baseline airfoil with an abrupt n cross-section at about midspan from	dropouts  DEF Discrete variations in signal levels dur-		. anticonvulsants . antidiuretics . antidotes . antiemetics and antinauseants
DEF change in the fusels	A baseline airfoil with an abrupt n cross-section at about midspan from age. The outboard portion of the wing	dropouts		. anticonvulsants . antidiuretics . antidotes . antiemetics and antinauseants . antihistaminics
DEF change in the fusel has a cro a droope	A baseline airfoil with an abrupt n cross-section at about midspan from age. The outboard portion of the wing ss-section with a nearly flat bottom and d (downward) leading edge in relation	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers		. anticonvulsants . antidiuretics . antidotes . antiemetics and antinauseants
DEF change in the fusela has a cro a droope to the inte	A baseline airfoil with an abrupt n cross-section at about midspan from age. The outboard portion of the wing ss-section with a nearly flat bottom and d (downward) leading edge in relation to board baseline wing.	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers electric contacts		. anticonvulsants . antidiuretics . antidotes . antiemetics and antinauseants . antihistaminics . dimenhydrinate . diphenyl hydantoin . promethazine
DEF change in the fusels has a cro a droope to the integral	A baseline airfoil with an abrupt n cross-section at about midspan from age. The outboard portion of the wing ss-section with a nearly flat bottom and d (downward) leading edge in relation loard baseline wing.  aerodynamic configurations	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers electric contacts electric switches		. anticonvulsants . antidiuretics . antidotes . antiemetics and antinauseants . antinistaminics . dimenhydrinate . diphenyl hydantoin . promethazine . antihypertensive agents
DEF change in the fusels has a cro a droope to the inb GS	A baseline airfoil with an abrupt n cross-section at about midspan from age. The outboard portion of the wing ss-section with a nearly flat bottom and d (downward) leading edge in relation to board baseline wing.	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers electric contacts		anticonvulsants antidiuretics antidotes antimetics and antinauseants antihistaminics dimenhydrinate diphenyl hydantoin promethazine antihypertensive agents antiinfectives and antibacterials
DEF change in the fusel has a cro a droope to the int GS	A baseline airfoil with an abrupt n cross-section at about midspan from age. The outboard portion of the wing ss-section with a nearly flat bottom and d (downward) leading edge in relation locard baseline wing.  aerodynamic configurations  drooped airfoils  drooped airfoils  drooped airfoils	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers electric contacts electric switches switches  drops (liquids)		anticonvulsants antidiuretics antidotes antiemetics and antinauseants antinistaminics dimenhydrinate diphenyl hydantoin promethazine antihypertensive agents
DEF change in the fusela has a cro a droope to the int GS	A baseline airfoil with an abrupt n cross-section at about midspan from age. The outboard portion of the wing ass-section with a nearly flat bottom and d (downward) leading edge in relation to board baseline wing.  aerodynamic configurations  aerodynamic configurations  drooped airfoils  aircraft configurations  drooped airfoils  airfoils	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers electric contacts electric switches switches  drops (liquids)  DEF Small bodies of liquid held together		. anticonvulsants . antidiuretics . antidotes . antiemetics and antinauseants . antimistaminics . dimenhydrinate . diphenyl hydantoin . promethazine . antihypertensive agents . antiinfectives and antibacterials . antiradiation drugs . cysteamine . central nervous system depressants
DEF change in the fusels has a cro a droope to the inb GS	A baseline airfoil with an abrupt n cross-section at about midspan from age. The outboard portion of the wing ss-section with a nearly flat bottom and d (downward) leading edge in relation locard baseline wing.  aerodynamic configurations  drooped airfoils  drooped airfoils  drooped airfoils	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers electric contacts electric switches switches  drops (liquids)  DEF Small bodies of liquid held together primarily by surface tension. Used for liquid		anticonvulsants antidiuretics antidotes antiemetics and antinauseants antihistaminics dimenhydrinate diphenyl hydantoin promethazine antihypertensive agents antiradiation drugs cysteamine central nervous system depressants cholinergics
DEF change in the fusels has a cro a droope to the inb GS	A baseline airfoil with an abrupt n cross-section at about midspan from age. The outboard portion of the wing ss-section with a nearly flat bottom and d (downward) leading edge in relation loard baseline wing.  aerodynamic configurations  drooped airfoils aircraft configurations  drooped airfoils  airfoils  airfoils  drooped airfoils	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers electric contacts electric switches switches  drops (liquids)  DEF Small bodies of liquid held together primarily by surface tension. Used for liquid drops.  UF liquid drops		. anticonvulsants . antidiuretics . antidotes . antiemetics and antinauseants . antimistaminics . dimenhydrinate . diphenyl hydantoin . promethazine . antihypertensive agents . antiinfectives and antibacterials . antiradiation drugs . cysteamine . central nervous system depressants
DEF change in the fusels has a cro a droope to the inte GS	A baseline airfoil with an abrupt n cross-section at about midspan from age. The outboard portion of the wing ss-section with a nearly flat bottom and d (downward) leading edge in relation loard baseline wing.  aerodynamic configurations  drooped airfoils aircraft configurations  drooped airfoils airfoils airfoils airfoils airfoils airfoils body-wing configurations	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers electric contacts electric switches switches  drops (liquids)  DEF Small bodies of liquid held together primarily by surface tension. Used for liquid drops.  UF liquid drops GS particles		. anticonvulsants . antidiuretics . antidotes . antiemetics and antinauseants . antimetics and antinauseants . antinistaminics . dimenhydrinate . diphenyl hydantoin . promethazine . antihypertensive agents . antiinfectives and antibacterials . antiradiation drugs . cysteamine . central nervous system depressants . cholinergics . anticholinergics . cortisone . cysteine
DEF change in the fused has a cro a droope to the int GS	A baseline airfoil with an abrupt noress-section at about midspan from age. The outboard portion of the wing ass-section with a nearly flat bottom and d (downward) leading edge in relation leading edge in relation leading baseline wing.  aerodynamic configurations.  drooped airfoils aircraft configurations.  drooped airfoils airfoils.  drooped airfoils body-wing configurations wing roots	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers electric contacts electric switches switches  drops (liquids)  DEF Small bodies of liquid held together primarily by surface tension. Used for liquid drops.  UF liquid drops GS particles . drops (liquids)		anticonvulsants antidiuretics antidiuretics antides antimetics and antinauseants antinistaminics dimenhydrinate diphenyl hydantoin promethazine antihypertensive agents antiradiation drugs cysteamine central nervous system depressants cholinergics anticholinergics cortisone cysteine decongestants
DEF change in the fusel; has a cro a droope to the into GS	A baseline airfoil with an abrupt noress-section at about midspan from age. The outboard portion of the wing ass-section with a nearly flat bottom and d (downward) leading edge in relation poard baseline wing.  aerodynamic configurations.  . drooped airfoils aircraft configurations.  . drooped airfoils airfoils  airfoils  . drooped airfoils body-wing configurations wing roots  wings  (USE OF A MORE SPECIFIC TERM IS	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers electric contacts electric switches switches  drops (liquids)  DEF Small bodies of liquid held together primarily by surface tension. Used for liquid drops.  UF liquid drops GS particles		. anticonvulsants . antidiuretics . antidiuretics . antimetics and antinauseants . antimestics and antinauseants . antihistaminics . dimenhydrinate . diphenyl hydantoin . promethazine . antinypertensive agents . antiinfectives and antibacterials . antiradiation drugs . cysteamine . central nervous system depressants . cholinergics . anticholinergics . cortisone . cysteine . decongestants . digitalis
DEF change in the fusel, has a cro a droope to the interest of	A baseline airfoil with an abrupt of cross-section at about midspan from age. The outboard portion of the wing ses-section with a nearly flat bottom and d (downward) leading edge in relation coard baseline wing.  aerodynamic configurations  drooped airfoils airroaft configurations  drooped airfoils airfoils  idrooped airfoils body-wing configurations wing roots  wings  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers electric contacts electric switches switches  drops (liquids)  DEF Small bodies of liquid held together primarily by surface tension. Used for liquid drops.  UF liquid drops GS particles  drops (liquids)  raindrops RT air pollution Bond number		anticonvulsants antidiuretics antidiuretics antides antimetics and antinauseants antinistaminics dimenhydrinate diphenyl hydantoin promethazine antihypertensive agents antiradiation drugs cysteamine central nervous system depressants cholinergics anticholinergics cortisone cysteine decongestants
DEF change in the fusels has a cro a droope to the into GS  RT  drop SN  RT	A baseline airfoil with an abrupt noress-section at about midspan from age. The outboard portion of the wing ass-section with a nearly flat bottom and d (downward) leading edge in relation poard baseline wing.  aerodynamic configurations.  drooped airfoils aircraft configurations.  drooped airfoils airfoils  drooped airfoils body-wing configurations wing roots wings  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) drops (liquids)	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers electric contacts electric switches switches  drops (liquids)  DEF Small bodies of liquid held together primarily by surface tension. Used for liquid drops.  UF liquid drops GS particles		anticonvulsants antidiuretics antidiuretics antidiuretics antidiuretics antimetics and antinauseants antimetics dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate antihypertensive agents antiinfectives and antibacterials antiradiation drugs cysteamine central nervous system depressants cholinergics dimenhydrinergics cortisone cysteine decongestants digitalis epinephrine ergotamine hemostatics
DEF change in the fusels has a cro a droope to the into GS  RT  drop SN  RT	A baseline airfoil with an abrupt norse-section at about midspan from age. The outboard portion of the wing ass-section with a nearly flat bottom and d (downward) leading edge in relation loard baseline wing.  aerodynamic configurations.  drooped airfoils aircraft configurations.  drooped airfoils airfoils.  drooped airfoils body-wing configurations wing roots wings  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers electric contacts electric switches switches  drops (liquids)  DEF Small bodies of liquid held together primarily by surface tension. Used for liquid drops.  UF liquid drops GS particles . drops (liquids) raindrops RT air pollution Bond number condensation nuclei condensing		anticonvulsants antidiuretics antidiuretics antidiuretics antimetics and antinauseants antimetics and antinauseants antimetics dimenhydrinate diphenyl hydantoin promethazine antihypertensive agents antiradiation drugs central nervous system depressants cholinergics anticholinergics cortisone cysteine decongestants digitalis epinephrine ergotamine hemostatics histamines
DEF change in the fusel has a cro a droope to the inb GS  RT  drop SN  RT	A baseline airfoil with an abrupt noress-section at about midspan from age. The outboard portion of the wing ass-section with a nearly flat bottom and d (downward) leading edge in relation poard baseline wing.  aerodynamic configurations.  drooped airfoils aircraft configurations.  drooped airfoils airfoils  drooped airfoils body-wing configurations wing roots wings  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) drops (liquids)	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers electric contacts electric switches switches  drops (liquids)  DEF Small bodies of liquid held together primarily by surface tension. Used for liquid drops.  UF liquid drops GS particles		anticonvulsants antidiuretics antidiuretics antidiuretics antidiuretics antimetics and antinauseants antimetics dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate antihypertensive agents antiinfectives and antibacterials antiradiation drugs cysteamine central nervous system depressants cholinergics dimenhydrinergics cortisone cysteine decongestants digitalis epinephrine ergotamine hemostatics
DEF change in the fusels has a cro a droope to the into GS  RT  drop SN  RT  drop call GS	A baseline airfoil with an abrupt noress-section at about midspan from age. The outboard portion of the wing ass-section with a nearly flat bottom and d (downward) leading edge in relation locard baseline wing.  aerodynamic configurations.  drooped airfoils aircraft configurations.  drooped airfoils airfoils  drooped airfoils body-wing configurations wing roots wings  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) drops (liquids) gradients  orimeters measuring instruments	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers electric contacts electric switches switches  drops (liquids)  DEF Small bodies of liquid held together primarily by surface tension. Used for liquid drops.  UF liquid drops GS particles  drops (liquids)  raindrops  RT air pollution  Bond number condensation nuclei condensing  drop  hydrometeors sprayers		anticonvulsants antidiuretics antidiuretics antidiuretics antidiuretics antimetics and antinauseants antinistaminics dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate antihypertensive agents antiinfectives and antibacterials antiradiation drugs cysteamine central nervous system depressants cholinergics diniergics anticholinergics cortisone cysteine decongestants digitalis epinephrine ergotamine hemostatics histamines insulin methamphetamine motion sickness drugs
DEF change in the fusels has a cro a droope to the into GS  RT  drop SN  RT  drop calc GS	A baseline airfoil with an abrupt norse-section at about midspan from age. The outboard portion of the wing ass-section with a nearly flat bottom and d (downward) leading edge in relation locard baseline wing.  aerodynamic configurations  drooped airfoils aircraft configurations  drooped airfoils airfoils  drooped airfoils airfoils  drooped airfoils body-wing configurations wing roots wings  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) drops (liquids) gradients  orimeters measuring instruments  calorimeters	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers electric contacts electric switches switches  drops (liquids)  DEF Small bodies of liquid held together primarily by surface tension. Used for liquid drops.  UF liquid drops GS particles  drops (liquids)  raindrops  RT air pollution  Bond number condensation nuclei condensing  drop hydrometeors		anticonvulsants antidiuretics antidiuretics antidiuretics antimetics and antinauseants antimetics and antinauseants antihistaminics dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate antihyertensive agents antinefectives and antibacterials antiradiation drugs dimensional control control dimensional control dimensional control decorpseamine decongestants digitalis digitalis depinephrine ergotamine hemostatics histamines insulin methamphetamine motion sickness drugs muscle relaxants
DEF change in the fuselic has a cro a droope to the inth GS  RT  drop SN  RT  drop call GS	A baseline airfoil with an abrupt of cross-section at about midspan from age. The outboard portion of the wing ss-section with a nearly flat bottom and d (downward) leading edge in relation poard baseline wing.  aerodynamic configurations.  drooped airfoils airfoils airfoils.  drooped airfoils body-wing configurations wing roots wings  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) drops (liquids) gradients  orimeters  measuring instruments  calorimeters  drop calorimeters	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers electric contacts electric switches switches  drops (liquids)  DEF Small bodies of liquid held together primarily by surface tension. Used for liquid drops.  UF liquid drops GS particles  drops (liquids)  raindrops  RT air pollution  Bond number condensation nuclei condensing  drop  hydrometeors sprayers		anticonvulsants antidiuretics antidiuretics antidiuretics antimetics and antinauseants antimetics and antinauseants antimetics dimenhydrinate diphenyl hydantoin promethazine antinypertensive agents antimetives and antibacterials antiradiation drugs central nervous system depressants cholinergics anticholinergics cortisone cysteine decongestants digitalis epinephrine ergotamine hemostatics histamines insulin methamphetamine motion sickness drugs muscle relaxants narcotics
DEF change in the fusels has a cro a droope to the int GS  RT  drop SN  RT  drop call GS  RT	A baseline airfoil with an abrupt norse-section at about midspan from age. The outboard portion of the wing ass-section with a nearly flat bottom and d (downward) leading edge in relation locard baseline wing.  aerodynamic configurations  drooped airfoils aircraft configurations  drooped airfoils airfoils  drooped airfoils airfoils  drooped airfoils body-wing configurations wing roots wings  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) drops (liquids) gradients  orimeters measuring instruments  calorimeters	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers electric contacts electric switches switches  drops (liquids)  DEF Small bodies of liquid held together primarily by surface tension. Used for liquid drops.  UF liquid drops GS particles  drops (liquids)  raindrops  RT air pollution  Bond number condensation nuclei condensation nuclei condensing  drop hydrometeors sprayers thermocapillary migration  dropsondes  DEF Radiosondes equipped with a para-		anticonvulsants antidiuretics antidiuretics antidiuretics antidotes antiemetics and antinauseants antinistaminics dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate antihypertensive agents antiinfectives and antibacterials dimenderics dimenhydrinate depressants digitalis decongestants digitalis epinephrine ergotamine hemostatics histamines insulin methamphetamine motion sickness drugs muscle relaxants narcotics morphine Nembutal (trademark)
DEF change in the fusels has a cro a droope to the into GS  RT  drop SN  RT  drop calc GS  RT	A baseline airfoil with an abrupt norse-section at about midspan from age. The outboard portion of the wing ass-section with a nearly flat bottom and d (downward) leading edge in relation locard baseline wing.  aerodynamic configurations.  drooped airfoils aircraft configurations.  drooped airfoils airfoils  drooped airfoils body-wing configurations wings  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED.—CONSULT THE TERMS LISTED BELOW) drops (liquids) gradients  orimeters measuring instruments calorimeters bomb calorimeters flame calorimeters flame calorimeters heat measurement	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers electric contacts electric switches switches  drops (liquids)  DEF Small bodies of liquid held together primarily by surface tension. Used for liquid drops.  UF liquid drops GS particles  drops (liquids)  raindrops  RT air pollution  Bond number  condensation nuclei  condensing  odrop  hydrometeors  sprayers  thermocapillary migration  dropsondes  DEF Radiosondes equipped with a parachute, dropped from an aircraft to transmit mea-		anticonvulsants antidiuretics antidiuretics antidiuretics antimetics and antinauseants antinistaminics dimenhydrinate dimensive agents diminifectives and antibacterials dintradiation drugs depressants dimension drugs depressants dimension depressants digitalis depinephrine decongestants digitalis digitalis depinephrine ergotamine hemostatics histamines dissulin methamphetamine motion sickness drugs muscle relaxants narcotics morphine Nembutal (trademark) pentobarbital sodium
DEF change in the fuselic has a cro a droope to the into GS  RT  drop call GS  RT	A baseline airfoil with an abrupt of cross-section at about midspan from age. The outboard portion of the wing ss-section with a nearly flat bottom and d (downward) leading edge in relation poard baseline wing.  aerodynamic configurations.  . drooped airfoils aircraft configurations  . drooped airfoils airfoils  airfoils  . drooped airfoils  body-wing configurations wings  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) drops (liquids) gradients  orimeters  measuring instruments  . calorimeters  bomb calorimeters flame calorimeters heat measurement high temperature tests	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers electric switches electric switches switches  drops (liquids)  DEF Small bodies of liquid held together primarily by surface tension. Used for liquid drops.  UF liquid drops GS particles  drops (liquids)  raindrops  RT air pollution  Bond number condensation nuclei condensing  drop  hydrometeors sprayers thermocapillary migration  dropsondes  DEF Radiosondes equipped with a parachute, dropped from an aircraft to transmit measurements of atmospheric conditions as it de-		anticonvulsants antidiuretics antidiuretics antidiuretics antimetics and antinauseants antihistaminics dimenhydrinate diphenyl hydantoin promethazine antihypertensive agents antiradiation drugs central nervous system depressants cholinergics anticholinergics cortisone decongestants digitalis epinephrine ergotamine ergotamine methamphetamine motion sickness drugs muscle relaxants narcotics morphine Nembutal (trademark) pentobarbital sodium reserpine
DEF change in the fuselic has a cro a droope to the into GS  RT  drop call GS  RT	A baseline airfoil with an abrupt norse-section at about midspan from age. The outboard portion of the wing ass-section with a nearly flat bottom and d (downward) leading edge in relation locard baseline wing.  aerodynamic configurations.  drooped airfoils aircraft configurations.  drooped airfoils airfoils  drooped airfoils body-wing configurations wings  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED.—CONSULT THE TERMS LISTED BELOW) drops (liquids) gradients  orimeters measuring instruments calorimeters bomb calorimeters flame calorimeters flame calorimeters heat measurement	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers electric contacts electric switches switches  drops (liquids)  DEF Small bodies of liquid held together primarily by surface tension. Used for liquid drops.  UF liquid drops GS particles  drops (liquids)  raindrops  RT air pollution  Bond number  condensation nuclei  condensing  odrop  hydrometeors  sprayers  thermocapillary migration  dropsondes  DEF Radiosondes equipped with a parachute, dropped from an aircraft to transmit mea-		anticonvulsants antidiuretics antidiuretics antidiuretics antimetics and antinauseants antinistaminics dimenhydrinate dimensive agents diminifectives and antibacterials dintradiation drugs depressants dimension drugs depressants dimension depressants digitalis depinephrine decongestants digitalis digitalis depinephrine ergotamine hemostatics histamines dissulin methamphetamine motion sickness drugs muscle relaxants narcotics morphine Nembutal (trademark) pentobarbital sodium
DEF change in the fusels has a cro a droope to the into GS  RT  drop SN  RT  drop calc GS  RT	A baseline airfoil with an abrupt norse-section at about midspan from age. The outboard portion of the wing ass-section with a nearly flat bottom and d (downward) leading edge in relation locard baseline wing.  aerodynamic configurations.  drooped airfoils aircraft configurations.  drooped airfoils airfoils  drooped airfoils body-wing configurations wing roots wings  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) drops (liquids) gradients  orimeters measuring instruments . calorimeters bomb calorimeters bomb calorimeters heat measurement high temperature tests temperature measuring instruments	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers electric contacts electric switches switches  drops (liquids)  DEF Small bodies of liquid held together primarily by surface tension. Used for liquid drops.  UF liquid drops GS particles  drops (liquids)  raindrops  RT air pollution  Bond number  condensation nuclei condensing  drop  hydrometeors sprayers thermocapillary migration  dropsondes  DEF Radiosondes equipped with a parachute, dropped from an aircraft to transmit measurements of atmospheric conditions as it descends.  GS measuring instruments meteorological instruments		anticonvulsants antidiuretics antidiuretics antidiuretics antidiuretics antimetics and antinauseants antinistaminics dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate dimenhydrinate antihypertensive agents antiinfectives and antibacterials dintradiation drugs cysteamine central nervous system depressants cholinergics dimenhydrinergics cortisone cysteine decongestants digitalis epinephrine ergotamine hemostatics histamines insulin methamphetamine motion sickness drugs muscle relaxants narcotics morphine Nembutal (trademark) pentobarbital sodium reserpine psychotropic drugs marijuana sedatives
DEF change in the fuselic has a cro a droope to the into GS  RT  drop calc GS  RT  drop calc GS  RT	A baseline airfoil with an abrupt of cross-section at about midspan from age. The outboard portion of the wing ass-section with a nearly flat bottom and d (downward) leading edge in relation poard baseline wing.  aerodynamic configurations.  . drooped airfoils aircraft configurations  . drooped airfoils airfoils airfoils airfoils airfoils airfoils airfoils airfoils corpoped airfoils body-wing configurations wing roots wings  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) drops (liquids) gradients  orimeters measuring instruments . calorimeters bomb calorimeters bomb calorimeters flame calorimeters heat measurement high temperature tests temperature measuring instruments  e The diameter of a drop if it is approxi-	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers electric contacts electric switches switches  drops (liquids)  DEF Small bodies of liquid held together primarily by surface tension. Used for liquid drops.  UF liquid drops  GS particles  drops (liquids)  raindrops  RT air pollution  Bond number  condensation nuclei  condensing  drop  hydrometeors  sprayers  thermocapillary migration  dropsondes  DEF Radiosondes equipped with a parachute, dropped from an aircraft to transmit measurements of atmospheric conditions as it descends.  GS measuring instruments  meteorological instruments  dropsondes  dropsondes  dropsondes  dropsondes		anticonvulsants antidiuretics antidiuretics antidiuretics antimetics and antinauseants antihistaminics dimenhydrinate dimenhydrinate diphenyl hydantoin promethazine antihypertensive agents antiinfectives and antibacterials antiradiation drugs central nervous system depressants cholinergics anticholinergics cortisone cysteine decongestants digitalis epinephrine ergotamine hemostatics histamines insulin methamphetamine motion sickness drugs muscle relaxants narcotics morphine Nembutal (trademark) pentobarbital sodium reserpine psychotropic drugs marijuana sedatives stimulants
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DEF change in the fusels has a cro a droope to the into GS  RT  drop calc GS  RT  drop size DEF mately ss shape an scribed.	A baseline airfoil with an abrupt or cross-section at about midspan from age. The outboard portion of the wing ass-section with a nearly flat bottom and d (downward) leading edge in relation loard baseline wing. aerodynamic configurations. drooped airfoils aircraft configurations. drooped airfoils airfoils. drooped airfoils airfoils. drooped airfoils body-wing configurations wing roots wings  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) drops (liquids) gradients  orimeters measuring instruments calorimeters bomb calorimeters bomb calorimeters flame calorimeters flame calorimeters theat measurement high temperature tests temperature measuring instruments  e The diameter of a drop if it is approxipherical; otherwise, the approximate	dropouts  DEF Discrete variations in signal levels during the reproduction of recorded data which result in data reduction errors.  RT circuit breakers electric contacts electric switches switches  drops (liquids)  DEF Small bodies of liquid held together primarily by surface tension. Used for liquid drops.  UF liquid drops GS particles		anticonvulsants antidiuretics antidiuretics antidiuretics antimetics and antinauseants antihistaminics dimenhydrinate diphenyl hydantoin promethazine antinypertensive agents antiinfectives and antibacterials antiradiation drugs central nervous system depressants cholinergics anticholinergics cortisone cysteine decongestants digitalis epinephrine ergotamine hemostatics histamines insulin methamphetamine motion sickness drugs muscle relaxants narcotics morphine Nembutal (trademark) pentobarbital sodium reserpine psychotropic drugs marijuana sedatives stimulants antininationalise anticholinergics anticholinergics cortisone cysteine decongestants digitalis epinephrine ergotamine hemostatics histamines insulin methamphetamine motion sickness drugs muscle relaxants narcotics morphine Nembutal (trademark) pentobarbital sodium seserpine sychotropic drugs marijuana sedatives stimulants atropine

	sea launching	∞ spacecraft
. trimethadione	du tara (aguinmant)	spacecraft stability
. vasoconstrictor drugs	dryers (equipment)	spin stabilization
hypertensin	USE drying apparatus	dual thrust nozzles
serotonin	drying	GS rocket nozzles
. vasodilator agents RT alkaloids	UF desiccation	. dual thrust nozzles
analgesia	dewetting	RT ∞ nozzles
anesthesiology	GS drying	thrust
bioflavonoids	. dehumidification	andot
biotin	. dehydration	dual wing configurations
chemical defense	. freeze drying	DEF A configuration of two wings of nearly
chemotherapy	RT ∞ absorption	the same planform and area, one behind the
cures	baking	other.
dopamine	concentrating	RT biplanes
dosage	curing	joined wings
ethers	desaturation	tandem wing aircraft
∞ medicine	dewatering	wings
pentobarbital	diffusion	
pharmacology	enthalpy	duality principle
phenobarbital	evaporation	DEF Principle that for any theorem in elec-
psychopharmacology	firing (igniting)	tric circuit analysis there is a dual theorem in
quinoline	roasting	which quantities are replaced with dual quanti-
salicylates	∞ separation	ties. Examples are current and voltage or im-
sublethal dosage	silica gel water loss	pedance and admittance.
thiophenes	water ioss	RT ∞ analyzing
vaccines	drying apparatus	circuits
vitamins	UF dryers (equipment)	equivalent circuits
	GS separators	network analysis ∞ paths
drumlins	. drying apparatus	∞ pains ∞ principles
USE glacial drift	desiccators	∞ principles signal flow graphs
	RT absorbers (equipment)	signal now graphs
∞ drums	columns (process engineering)	duality theorem
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERM		DEF Theorem which states that if either of
LISTED BELOW)	dehydrated food	two dual linear programming problems has a
RT ∞ barrels	evaporators	solution, then so does the other.
∞ cylinders	furnaces	GS theorems
drums (containers)		. duality theorem
magnetic drums	DS1 (space mission)	RT homology
magnetic storage	(added October 1998)	isomorphism
	USE Deep Space 1 Mission	∞ mathematics
drums (containers)	DCIE (instrumentation facility)	∞ relationships
SN (EXCLUDE MAGNETIC COMPUTER MEMORIES)	DSIF (instrumentation facility) USE Deep Space Instrumentation	
RT barrels (containers)	Facility	dubnium
∞ buckets	1 acmity	(added May 1998)
cans	DSN (space network)	GS chemical elements
∞ containers	USE Deep Space Network	. dubnium
∞ cylinders	• •	RT rutherfordium
∞ drums	DSN helicopter	seaborgium
tanks (containers)	USE QH-50 helicopter	duct geometry
		DEF The shape and dimensions of ports or
dry cells	DSSSL	other openings designed for passage of fluids
GS electric generators	DSSSL USE document markup languages	other openings designed for passage of fluids (gases, liquids, or mixtures) in or external to
GS electric generators . direct power generators	USE document markup languages	(gases, liquids, or mixtures) in or external to
GS electric generators . direct power generators . primary batteries	USE document markup languages  DTA (analysis)	(gases, liquids, or mixtures) in or external to engines.
GS electric generators . direct power generators . primary batteries dry cells	USE document markup languages	(gases, liquids, or mixtures) in or external to
GS electric generators . direct power generators . primary batteries dry cells magnesium cells	USE document markup languages  DTA (analysis)  USE thermal analysis	(gases, liquids, or mixtures) in or external to engines.  GS geometry
GS electric generators . direct power generators . primary batteries dry cells magnesium cells nickel zinc batteries	USE document markup languages  DTA (analysis)  USE thermal analysis  DTL integrated circuits	(gases, liquids, or mixtures) in or external to engines.  GS geometry . duct geometry
GS electric generators . direct power generators . primary batteries dry cells magnesium cells nickel zinc batteries electrochemical cells	USE document markup languages  DTA (analysis) USE thermal analysis  DTL integrated circuits UF Diode-Transistor-Logic integ circuits	(gases, liquids, or mixtures) in or external to engines.  GS geometry  . duct geometry  RT air flow
GS electric generators . direct power generators . primary batteries dry cells magnesium cells nickel zinc batteries electrochemical cells . electric batteries	USE document markup languages  DTA (analysis) USE thermal analysis  DTL integrated circuits UF Diode-Transistor-Logic integ circuits GS circuits	(gases, liquids, or mixtures) in or external to engines.  GS geometry  duct geometry  RT air flow  annular ducts
GS electric generators . direct power generators . primary batteries dry cells magnesium cells nickel zinc batteries electrochemical cells . electric batteries . primary batteries	USE document markup languages  DTA (analysis) USE thermal analysis  DTL integrated circuits UF Diode-Transistor-Logic integ circuits GS circuits . integrated circuits	(gases, liquids, or mixtures) in or external to engines.  GS geometry . duct geometry  RT air flow annular ducts circular tubes dump combustors fluid flow
GS electric generators . direct power generators . primary batteries dry cells magnesium cells nickel zinc batteries electrochemical cells . electric batteries . primary batteries dry cells	USE document markup languages  DTA (analysis) USE thermal analysis  DTL integrated circuits UF Diode-Transistor-Logic integ circuits GS circuits . integrated circuits DTL integrated circuits	(gases, liquids, or mixtures) in or external to engines.  GS geometry . duct geometry RT air flow annular ducts circular tubes dump combustors fluid flow intake systems
GS electric generators . direct power generators . primary batteries dry cells magnesium cells nickel zinc batteries electrochemical cells . electric batteries . primary batteries . primary batteries dry cells magnesium cells	USE document markup languages  DTA (analysis) USE thermal analysis  DTL integrated circuits UF Diode-Transistor-Logic integ circuits GS circuits . integrated circuits . DTL integrated circuits RT electronic packaging	(gases, liquids, or mixtures) in or external to engines.  GS geometry . duct geometry  RT air flow annular ducts circular tubes dump combustors fluid flow intake systems openings
GS electric generators . direct power generators . primary batteries dry cells magnesium cells nickel zinc batteries electrochemical cells . electric batteries . primary batteries . primary batteries dry cells magnesium cells nickel zinc batteries	USE document markup languages  DTA (analysis) USE thermal analysis  DTL integrated circuits UF Diode-Transistor-Logic integ circuits GS circuits . integrated circuits DTL integrated circuits	(gases, liquids, or mixtures) in or external to engines.  GS geometry . duct geometry RT air flow annular ducts circular tubes dump combustors fluid flow intake systems
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GS electric generators . direct power generators . primary batteries . dry cells . magnesium cells . nickel zinc batteries electrochemical cells . electric batteries . primary batteries . primary batteries . dry cells . magnesium cells . nickel zinc batteries  RT metal air batteries nickel cadmium batteries storage batteries thermal batteries	USE document markup languages  DTA (analysis) USE thermal analysis  DTL integrated circuits UF Diode-Transistor-Logic integ circuits circuits integrated circuits . DTL integrated circuits  PTL integrated circuits are electronic packaging large scale integration microminiaturization molecular electronics transistor circuits	(gases, liquids, or mixtures) in or external to engines.  GS geometry . duct geometry  RT air flow annular ducts circular tubes dump combustors fluid flow intake systems openings spatial marching  ducted bodies  RT annular ducts axisymmetric bodies bluff bodies
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GS electric generators . direct power generators . primary batteries . dry cells magnesium cells nickel zinc batteries electrochemical cells . electric batteries . primary batteries . primary batteries dry cells magnesium cells inckel zinc batteries RT metal air batteries RT metal air batteries nickel cadmium batteries storage batteries thermal batteries  dry friction GS friction . dry friction	USE document markup languages  DTA (analysis) USE thermal analysis  DTL integrated circuits UF Diode-Transistor-Logic integ circuits GS circuits . integrated circuits . DTL integrated circuits electronic packaging large scale integration microminiaturization molecular electronics transistor circuits  DTMB-111 ground effect machine USE ground effect machine USE ground effect machine USE ground effect machine	(gases, liquids, or mixtures) in or external to engines.  GS geometry . duct geometry  RT air flow annular ducts circular tubes dump combustors fluid flow intake systems openings spatial marching  ducted bodies  RT annular ducts axisymmetric bodies blunt bodies blunt bodies ducts intake systems
GS electric generators . direct power generators . primary batteries . dry cells . magnesium cells . nickel zinc batteries electrochemical cells . electric batteries . primary batteries . primary batteries . dry cells . magnesium cells . inckel zinc batteries RT metal air batteries nickel cadmium batteries storage batteries thermal batteries dry friction GS friction . dry friction RT abrasion	USE document markup languages  DTA (analysis) USE thermal analysis  DTL integrated circuits UF Diode-Transistor-Logic integ circuits circuits . integrated circuits . DTL integrated circuits electronic packaging large scale integration microminiaturization molecular electronics transistor circuits  DTMB-111 ground effect machine USE ground effect machine USE ground effect machine USE ground effect machine USE ground effect machines  Dual Air Density Explorer	(gases, liquids, or mixtures) in or external to engines.  GS geometry . duct geometry RT air flow annular ducts circular tubes dump combustors fluid flow intake systems openings spatial marching  ducted bodies RT annular ducts axisymmetric bodies bluff bodies blunt bodies blunt bodies  ∞ bodies ducts intake systems nacelles
GS electric generators direct power generators primary batteries dry cells delta in batteries electrochemical cells electric batteries electric batteries primary batteries dry cells dry friction GS friction dry friction RT abrasion kinetic friction	USE document markup languages  DTA (analysis) USE thermal analysis  DTL integrated circuits UF Diode-Transistor-Logic integ circuits circuits . integrated circuits . DTL integrated circuits . DTL integrated circuits RT electronic packaging large scale integration microminiaturization molecular electronics transistor circuits  DTMB-111 ground effect machine USE ground effect machine	(gases, liquids, or mixtures) in or external to engines.  GS geometry . duct geometry RT air flow annular ducts circular tubes dump combustors fluid flow intake systems openings spatial marching  ducted bodies  RT annular ducts axisymmetric bodies bluff bodies bluff bodies bluff bodies blunt bodies  ∞ bodies ducts intake systems nacelles nose inlets
GS electric generators direct power generators primary batteries dry cells delta in batteries electrochemical cells electric batteries primary batteries primary batteries dry cells dry friction GS friction Ary friction RT abrasion kinetic friction sliding friction	USE document markup languages  DTA (analysis) USE thermal analysis  DTL integrated circuits  UF Diode-Transistor-Logic integ circuits circuits . integrated circuits . DTL integrated circuits . DTL integrated circuits . DTL integrated circuits . DTL integrated circuits  RT electronic packaging large scale integration microminiaturization molecular electronics transistor circuits  DTMB-111 ground effect machine USE ground effect machine USE ground effect machine USE ground effect machine USE ground effect machine  DTMB-430 ground effect machine  DTMB-430 ground effect machine  SDUAL Air Density Explorer UF DAD Explorer GS artificial satellites	(gases, liquids, or mixtures) in or external to engines.  GS geometry . duct geometry RT air flow annular ducts circular tubes dump combustors fluid flow intake systems openings spatial marching  ducted bodies RT annular ducts axisymmetric bodies bluff bodies blunt bodies blunt bodies  ∞ bodies ducts intake systems nacelles
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GS electric generators . direct power generators . primary batteries . dry cells magnesium cells nickel zinc batteries electrochemical cells . electric batteries . primary batteries . primary batteries . magnesium cells inckel zinc batteries RT metal air batteries nickel cadmium batteries storage batteries thermal batteries  dry friction GS friction Ary friction RT abrasion kinetic friction sliding friction static friction	USE document markup languages  DTA (analysis) USE thermal analysis  DTL integrated circuits UF Diode-Transistor-Logic integ circuits circuits . integrated circuits . integrated circuits PTL integrated circuits electronic packaging large scale integration microminiaturization molecular electronics transistor circuits  DTMB-111 ground effect machine USE ground effect machines	(gases, liquids, or mixtures) in or external to engines.  GS geometry . duct geometry RT air flow annular ducts circular tubes dump combustors fluid flow intake systems openings spatial marching  ducted bodies  RT annular ducts axisymmetric bodies blunt bodies blunt bodies  ∞ bodies ducts intake systems nacelles nose inlets shrouds slender bodies
GS electric generators . direct power generators . primary batteries . dry cells . magnesium cells . nickel zinc batteries electrochemical cells electric batteries primary batteries primary batteries reflection cells metal air batteries nickel cadmium batteries storage batteries thermal batteries dry friction GS friction RT abrasion kinetic friction sliding friction static friction  dry heat GS heat dry heat GS heat dry heat	USE document markup languages  DTA (analysis) USE thermal analysis  DTL integrated circuits UF Diode-Transistor-Logic integ circuits GS circuits . integrated circuits . DTL integrated circuits electronic packaging large scale integration microminiaturization molecular electronics transistor circuits  DTMB-111 ground effect machine USE ground effect machines	(gases, liquids, or mixtures) in or external to engines.  GS geometry
GS electric generators . direct power generators . primary batteries . dry cells . magnesium cells . nickel zinc batteries electrochemical cells . electric batteries . primary batteries . primary batteries . nickel zinc batteries . nickel zinc batteries . nickel zinc batteries . nickel zinc batteries  RT metal air batteries nickel cadmium batteries storage batteries thermal batteries thermal batteries  dry friction GS friction . dry friction RT abrasion kinetic friction sliding friction static friction  dry heat GS heat . dry heat RT geothermal resources	USE document markup languages  DTA (analysis) USE thermal analysis  DTL integrated circuits UF Diode-Transistor-Logic integ circuits circuits . integrated circuits . integrated circuits PTL integrated circuits electronic packaging large scale integration microminiaturization molecular electronics transistor circuits  DTMB-111 ground effect machine USE ground effect machines	(gases, liquids, or mixtures) in or external to engines.  GS geometry . duct geometry RT air flow annular ducts circular tubes dump combustors fluid flow intake systems openings spatial marching  ducted bodies  RT annular ducts axisymmetric bodies bluff bodies bluff bodies blunt bodies  ⇒ bodies ducts intake systems nacelles nose inlets shrouds slender bodies two dimensional bodies
GS electric generators . direct power generators . primary batteries . dry cells magnesium cells nickel zinc batteries electrochemical cells . electric batteries . primary batteries . primary batteries . magnesium cells inckel zinc batteries RT metal air batteries nickel cadmium batteries storage batteries thermal batteries  dry friction GS friction . dry friction RT abrasion kinetic friction sliding friction static friction dry heat GS heat . dry heat RT geothermal resources geothermal technology	USE document markup languages  DTA (analysis) USE thermal analysis  DTL integrated circuits UF Diode-Transistor-Logic integ circuits circuits . integrated circuits . DTL integrated circuits  RT electronic packaging large scale integration microminiaturization molecular electronics transistor circuits  DTMB-111 ground effect machine USE ground effect machine USE ground effect machine USE ground effect machines  DUAL Air Density Explorer UF DAD Explorer GS artificial satellites . scientific satellites . Explorer satellites Dual Air Density Explorer	(gases, liquids, or mixtures) in or external to engines.  GS geometry . duct geometry RT air flow annular ducts circular tubes dump combustors fluid flow intake systems openings spatial marching  ducted bodies RT annular ducts axisymmetric bodies bluff bodies bluft bodies blunt bodies  ∞ bodies ducts intake systems nacelles nose inlets shrouds slender bodies  ducted fan engines  DEF Aircraft engines incorporating a fan or propeller enclosed in a duct; especially jet en-
GS electric generators direct power generators primary batteries dry cells magnesium cells electrochemical cells electric batteries electric batteries electric batteries primary batteries dry cells magnesium cells mickel zinc batteries dry cells metal air batteries metal air batteries metal air batteries motal cadmium batteries storage batteries thermal batteries dry friction GS friction dry friction sliding friction sliding friction static friction dry heat GS heat dry heat RT geothermal resources geothermal technology high temperature environments	USE document markup languages  DTA (analysis) USE thermal analysis  DTL integrated circuits UF Diode-Transistor-Logic integ circuits circuits . integrated circuits . integrated circuits . DTL integrated circuits electronic packaging large scale integration microminiaturization molecular electronics transistor circuits  DTMB-111 ground effect machine USE ground effect machine USE ground effect machine USE ground effect machine USE ground effect machine  USE ground effect machine  USE ground effect machine  USE ground effect machine  USE ground effect machine  USE ground effect machine  USE ground effect machine  USE ground effect machine  USE ground effect machines  Dual Air Density Explorer  UF DAD Explorer GS artificial satellites . Explorer satellites . Dual Air Density Explorer  dual frequency radar USE multispectral radar	(gases, liquids, or mixtures) in or external to engines.  GS geometry . duct geometry RT air flow annular ducts circular tubes dump combustors fluid flow intake systems openings spatial marching  ducted bodies RT annular ducts axisymmetric bodies bluff bodies bluff bodies blunt bodies blunt bodies blunt bodies cucts intake systems nacelles nose inlets shrouds slender bodies two dimensional bodies  ducted fan engines  DEF Aircraft engines incorporating a fan or propeller enclosed in a duct; especially jet engines in which an enclosed fan or propeller is
GS electric generators direct power generators primary batteries dry cells magnesium cells electric batteries electrochemical cells electric batteries primary batteries prima	USE document markup languages  DTA (analysis) USE thermal analysis  DTL integrated circuits UF Diode-Transistor-Logic integ circuits circuits . integrated circuits . DTL integrated circuits  RT electronic packaging large scale integration microminiaturization molecular electronics transistor circuits  DTMB-111 ground effect machine USE ground effect machine USE ground effect machines  DTMB-430 ground effect machine USE ground effect machines  Dual Air Density Explorer UF DAD Explorer GS artificial satellites . scientific satellites . in Explorer satellites . In Dual Air Density Explorer  dual frequency radar USE multispectral radar  dual mode propulsion	(gases, liquids, or mixtures) in or external to engines.  GS geometry . duct geometry RT air flow annular ducts circular tubes dump combustors fluid flow intake systems openings spatial marching  ducted bodies  RT annular ducts axisymmetric bodies bluff bodies bluff bodies bluff bodies bluft bodies bluft bodies bluft bodies blunt bodies bluft bodies bluft bodies bluft bodies bluft bodies blunt bodies bluft bodies bluft bodies bluft bodies bluft bodies bluft bodies blunt bodies bluft bodies  bodies ducts intake systems nacelles nose inlets shrouds slender bodies two dimensional bodies  ducted fan engines  DEF Aircraft engines incorporating a fan or propeller enclosed in a duct; especially jet engines in which an enclosed fan or propeller is used to ingest ambient air to augment the gases
GS electric generators direct power generators primary batteries dry cells magnesium cells electrochemical cells electric batteries electric batteries electric batteries primary batteries dry cells magnesium cells mickel zinc batteries dry cells metal air batteries metal air batteries metal air batteries motal cadmium batteries storage batteries thermal batteries dry friction GS friction dry friction sliding friction sliding friction static friction dry heat GS heat dry heat RT geothermal resources geothermal technology high temperature environments	USE document markup languages  DTA (analysis) USE thermal analysis  DTL integrated circuits UF Diode-Transistor-Logic integ circuits circuits . integrated circuits . integrated circuits . DTL integrated circuits electronic packaging large scale integration microminiaturization molecular electronics transistor circuits  DTMB-111 ground effect machine USE ground effect machine USE ground effect machine USE ground effect machine USE ground effect machine  USE ground effect machine  USE ground effect machine  USE ground effect machine  USE ground effect machine  USE ground effect machine  USE ground effect machine  USE ground effect machine  USE ground effect machines  Dual Air Density Explorer  UF DAD Explorer GS artificial satellites . Explorer satellites . Dual Air Density Explorer  dual frequency radar USE multispectral radar	(gases, liquids, or mixtures) in or external to engines.  GS geometry . duct geometry RT air flow annular ducts circular tubes dump combustors fluid flow intake systems openings spatial marching  ducted bodies  RT annular ducts axisymmetric bodies bluff bodies bluff bodies blunt bodies  ∞ bodies ducts intake systems nacelles nose inlets shrouds slender bodies  ducted fan engines  DEF Aircraft engines incorporating a fan or propeller enclosed in a duct; especially jet engines in which an enclosed fan or propeller is used to ingest ambient air to augment the gases of combustion in the jetstream.
GS electric generators . direct power generators . primary batteries . dry cells . magnesium cells . nickel zinc batteries electrochemical cells . electric batteries . primary batteries . primary batteries . nickel zinc batteries . nickel zinc batteries . nickel zinc batteries  RT metal air batteries nickel cadmium batteries storage batteries thermal batteries  dry friction GS friction . dry friction RT abrasion kinetic friction sliding friction static friction  dry heat GS heat . dry heat RT geothermal resources geothermal technology high temperature environments humidity ovens	USE document markup languages  DTA (analysis) USE thermal analysis  DTL integrated circuits UF Diode-Transistor-Logic integ circuits GS circuits . integrated circuits . integrated circuits PTL integrated circuits . DTL integrated circuits RT electronic packaging large scale integration microminiaturization molecular electronics transistor circuits  DTMB-111 ground effect machine USE ground effect machine USE ground effect machine USE ground effect machine SDTMB-430 ground effect machine USE ground effect machine USE ground effect machines  Dual Air Density Explorer GS artificial satellites . scientific satellites . Explorer satellites . Dual Air Density Explorer  dual frequency radar USE multispectral radar  dual mode propulsion USE hybrid propulsion	(gases, liquids, or mixtures) in or external to engines.  GS geometry . duct geometry RT air flow annular ducts circular tubes dump combustors fluid flow intake systems openings spatial marching  ducted bodies RT annular ducts axisymmetric bodies bluff bodies bluff bodies blunt bodies  ∞ bodies ducts intake systems nacelles nose inlets shrouds slender bodies  two dimensional bodies  ducted fan engines  DEF Aircraft engines incorporating a fan or propeller enclosed in a duct; especially jet engines in which an enclosed fan or propeller is used to ingest ambient air to augment the gases of combustion in the jetstream. GS engines
GS electric generators direct power generators primary batteries dry cells magnesium cells electric batteries electrochemical cells electric batteries primary batteries prima	USE document markup languages  DTA (analysis) USE thermal analysis  DTL integrated circuits UF Diode-Transistor-Logic integ circuits circuits . integrated circuits . DTL integrated circuits  RT electronic packaging large scale integration microminiaturization molecular electronics transistor circuits  DTMB-111 ground effect machine USE ground effect machine USE ground effect machines  DTMB-430 ground effect machine USE ground effect machines  Dual Air Density Explorer UF DAD Explorer GS artificial satellites . scientific satellites . in Explorer satellites . In Dual Air Density Explorer  dual frequency radar USE multispectral radar  dual mode propulsion	(gases, liquids, or mixtures) in or external to engines.  GS geometry . duct geometry RT air flow annular ducts circular tubes dump combustors fluid flow intake systems openings spatial marching  ducted bodies  RT annular ducts axisymmetric bodies bluff bodies bluff bodies blunt bodies  ∞ bodies ducts intake systems nacelles nose inlets shrouds slender bodies  ducted fan engines  DEF Aircraft engines incorporating a fan or propeller enclosed in a duct; especially jet engines in which an enclosed fan or propeller is used to ingest ambient air to augment the gases of combustion in the jetstream.

	jet engines		shear properties		jettisoning
	turbojet engines		softness		materials handling
	ducted fan engines		stress relaxation		oil slicks
	internal combustion engines		stretching		
	· · · · · · · · · · · · · · · · · · ·		8		releasing
	jet engines		temper (metallurgy) tensile strength		spilling spreading
	turbojet engines		toughness		unloading
	ducted fan engines		Tresca flow		unloading
	turbine engines		weldability	Dunalia	alla
	gas turbine engines		wordability	Dunalie	
	jet engines	ducts		GS	plants (botany)
	turbojet engines	DEF	Specifically, tubes or passages that		. algae Dunaliella
	ducted fan engines		and conduct fluids, as passages for the		Dunanena
RT	turbofan engines		air to compressors of gas turbine en-		
			r pipes leading air to superchargers.	dunes	
ducted	fans	GS	ducts	DEF	Low mounds, ridges, banks, or hills of
DEF	Fans enclosed in ducts.		. acoustic ducts		windblown granular material, usually
RT	blowers		. air ducts		apable of movement. Used for barchans, dunes, and sand dunes.
	fan blades		. annular ducts		barchans
~	fans	RT	baffles	Oi	coastal dunes
	lift fans		cavities		sand dunes
	propeller fans	0	o channels	GS	landforms
	ring wings		ducted bodies	ao	. dunes
	shrouded propellers		exhaust systems	RT	beaches
	turbofans		flues		coasts
	ventilation fans		intake systems		deserts
			nose inlets		lagoons
ducted			openings		Sahara Desert (Africa)
GS	fluid flow		orifices		sands
	. internal flow		outlets		topography
	ducted flow		pipes (tubes)		wind effects
	Knudsen flow		plenum chambers		Will diffete
RT	air flow		ports (openings)	Dungov	rs wind shear mechanism
	cavity flow		scoops	USE	wind shear
	channel flow		throats	OOL	Willa Sileai
	choked flow	۰	tubes		
	corner flow		ventilation	dunite	ra alca
	dump combustors		vents	GS	rocks
	flow geometry		windows (apertures)		. igneous rocks
	flow noise fuel flow			DT	dunite
	heat transmission		differential equation	RT	minerals olivine
	wall flow	GS	algebra		
	wall llow		. nonlinear equations		peridotite soils
ducted i	propellers		. Duffing differential equation		SOIIS
	shrouded propellers		analysis (mathematics)		
USE	sillouded propellers		. real variables		omators
	• •		differential equations	RT	electromagnetic radiation
ducted	rocket engines		differential equations Duffing differential equation	RT	electromagnetic radiation ∞ generators
	rocket engines engines		differential equations <b>Duffing differential equation</b> nonlinear equations	RT	electromagnetic radiation ∞ generators light sources
ducted	rocket engines engines . rocket engines	DT	differential equations Duffing differential equation nonlinear equations Duffing differential equation	RT	electromagnetic radiation
ducted	rocket engines engines	RT ∘	differential equations Duffing differential equation nonlinear equations Duffing differential equation e equations	RT	electromagnetic radiation  ∞ generators light sources measuring instruments monochromators
ducted GS RT	rocket engines engines . rocket engines . ducted rocket engines booster rocket engines	RT ∘	differential equations Duffing differential equation nonlinear equations Duffing differential equation	RT	electromagnetic radiation  ∞ generators light sources measuring instruments monochromators radiation sources
ducted GS RT	rocket engines engines . rocket engines ducted rocket engines		differential equations Duffing differential equation nonlinear equations Duffing differential equation equations probability theory	RT	electromagnetic radiation  ∞ generators light sources measuring instruments monochromators
ducted GS RT	rocket engines engines . rocket engines . ducted rocket engines booster rocket engines	dullness	differential equations Duffing differential equation . nonlinear equations Duffing differential equation equations probability theory	RT	electromagnetic radiation  ∞ generators light sources measuring instruments monochromators radiation sources spectrophotometers
ducted GS RT	rocket engines engines . rocket engines . ducted rocket engines booster rocket engines hybrid rocket engines internal combustion engines	dullness	differential equations Duffing differential equation nonlinear equations Duffing differential equation equations probability theory	RT °	electromagnetic radiation  generators light sources measuring instruments monochromators radiation sources spectrophotometers  smatrons
ducted GS RT	rocket engines engines rocket engines rocket engines ducted rocket engines boster rocket engines hybrid rocket engines internal combustion engines liquid propellant rocket engines	dullness USE	differential equations Duffing differential equation nonlinear equations Duffing differential equation equations probability theory  luster	RT °	electromagnetic radiation  generators light sources measuring instruments monochromators radiation sources spectrophotometers  smatrons ion sources
ducted GS RT	rocket engines engines rocket engines rocket engines ducted rocket engines booster rocket engines hybrid rocket engines internal combustion engines liquid propellant rocket engines restartable rocket engines	dullness USE dummie	differential equations Duffing differential equation nonlinear equations Duffing differential equation equations probability theory structures	RT °	electromagnetic radiation  ⇒ generators light sources measuring instruments monochromators radiation sources spectrophotometers  smatrons ion sources . plasmatrons
ducted GS RT	rocket engines engines . rocket engines . ducted rocket engines boster rocket engines hybrid rocket engines internal combustion engines liquid propellant rocket engines restartable rocket engines solid propellant rocket engines sustainer rocket engines	dullness USE	differential equations Duffing differential equation nonlinear equations Duffing differential equation equations probability theory  luster es decoys	RT °	electromagnetic radiation  ⇒ generators light sources measuring instruments monochromators radiation sources spectrophotometers  smatrons ion sources . plasmatrons duoplasmatrons
ducted GS RT	rocket engines engines . rocket engines . ducted rocket engines booster rocket engines hybrid rocket engines internal combustion engines liquid propellant rocket engines restartable rocket engines solid propellant rocket engines	dullness USE dummie	differential equations Duffing differential equation nonlinear equations Duffing differential equation e equations probability theory  s luster es decoys models	RT °	electromagnetic radiation  ∞ generators light sources measuring instruments monochromators radiation sources spectrophotometers  smatrons ion sources . plasmatrons plasma generators
ducted GS RT «	rocket engines engines . rocket engines . ducted rocket engines booster rocket engines hybrid rocket engines internal combustion engines liquid propellant rocket engines restartable rocket engines solid propellant rocket engines sustainer rocket engines brittle transition ad February 1994)	dullness USE dummie	differential equations Duffing differential equation nonlinear equations Duffing differential equation equations probability theory  luster es decoys	RT °	electromagnetic radiation  generators light sources measuring instruments monochromators radiation sources spectrophotometers  smatrons ion sources . plasmatrons plasma generators . plasmatrons . plasmatrons . plasmatrons
ducted GS RT «	rocket engines engines . rocket engines . rocket engines booster rocket engines boybrid rocket engines internal combustion engines liquid propellant rocket engines restartable rocket engines solid propellant rocket engines (INCLUDES BOTH DUCTILE-TO-BRITTLE	dullness USE dummie	differential equations Duffing differential equation nonlinear equations Duffing differential equation equations probability theory  luster es decoys models simulators	duopla GS	electromagnetic radiation  generators light sources measuring instruments monochromators radiation sources spectrophotometers  smatrons ion sources . plasmatrons plasma generators . plasmatrons . plasmatrons . choplasmatrons . choplasmatrons
ducted GS RT «	rocket engines engines . rocket engines . rocket engines . ducted rocket engines booster rocket engines hybrid rocket engines internal combustion engines liquid propellant rocket engines restartable rocket engines solid propellant rocket engines sustainer rocket engines brittle transition ad February 1994) ((INCLUDES BOTH DUCTILE-TO-BRITTLE AND BRITTLE-TO-DUCTILE	dullness USE dummie RT	differential equations Duffing differential equation nonlinear equations Duffing differential equation equations probability theory  luster es decoys models simulators	RT °	electromagnetic radiation  generators light sources measuring instruments monochromators radiation sources spectrophotometers  smatrons ion sources . plasmatrons plasma generators . plasmatrons . duoplasmatrons electric discharges
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ductide- (adde SN UF RT C ductility GS	rocket engines engines . rocket engines . rocket engines . oducted rocket engines booster rocket engines internal combustion engines liquid propellant rocket engines restartable rocket engines solid propellant rocket engines solid propellant rocket engines sustainer rocket engines sustainer rocket engines  brittle transition def February 1994) ((INCLUDES BOTH DUCTILE-TO-BRITTLE AND BRITTLE-TO-DUCTILE TRANSITIONS)) brittle-ductile transition brittleness ductility fracture strength plastic deformation transition temperature yield strength  mechanical properties . ductility brittleness compressive strength creep properties ductile-brittle transition longation fatigue (materials) flattening fractography fracture strength hardness impact strength	dullness USE  dummie RT  dummy USE  dump c DEF ing flow through the inlet GS RT	differential equations Duffing differential equation nonlinear equations Duffing differential equation equations probability theory  luster  set decoys models simulators  loads impedance loading output  combustors  Combustors having a means of reducvelocity and forming recirculation zones the sudden enlargement area between duct and the combustion chamber. combustion chambers . dump combustors combustible flow combustion efficiency duct geometry ducted flow engine parts flame holders flow velocity inlet flow ramjet engines rocket engines  g disconnect devices	duoplas GS  RT  duplex DEF ting and cesses current. RT  duplexe DEF system receivin with dip system by two to the control of t	electromagnetic radiation  generators light sources measuring instruments monochromators radiation sources spectrophotometers  smatrons ion sources . plasmatrons plasma generators . duoplasmatrons plasma generators . duoplasmatrons electric discharges ion propulsion plasma propulsion plasmas (physics) sputtering  operation The operation of associated transmittereceiving apparatus in which the pro- of transmission and reception are con- metallurgy phase shift circuits switching circuits  ers  Devices which permit a single antenna to be used for both transmitting and g. Duplexers should not be confused olexers, devices permitting an antenna to be used simultaneously or separately transmitters. circuits circuits circuitsory
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ductide- (adde SN UF RT C ductility GS	rocket engines engines . rocket engines . rocket engines booster rocket engines booster rocket engines internal combustion engines liquid propellant rocket engines restartable rocket engines solid propellant rocket engines sustainer rocket engines sustainer rocket engines  brittle transition  brittle transition  brittle-TO-DUCTILE-TO-BRITTLE AND BRITTLE-TO-DUCTILE TRANSITIONS)) brittle-ductile transition brittleness ductility fracture strength plastic deformation transition transition temperature yield strength  mechanical properties . ductility brittleness ductile-brittle transition elongation fatigue (materials) flattening fractography fracture strength malleability metal drawing	dullness USE  dummie RT  dummy USE  dump c DEF ing flow throught GS RT	differential equations Duffing differential equation nonlinear equations Duffing differential equation equations probability theory  luster  s decoys models simulators  loads impedance loading output  ombustors  Combustors having a means of reduction yellowing a means of reduction yellowing a means of reduction yellowing and forming recirculation zones the sudden enlargement area between duct and the combustion chambers . dump combustors combustion chambers . dump combustors combustion efficiency duct geometry ducted flow engine parts flame holders flow velocity inlet flow ramjet engines rocket engines  g disconnect devices disposal ejection	duoplas GS  RT  duplex DEF ting and cesses current. RT  duplexe DEF system receivin with dip system by two to the control of t	electromagnetic radiation  generators light sources measuring instruments monochromators radiation sources spectrophotometers  smatrons ion sources . plasmatrons plasma generators . plasmatrons electric discharges ion propulsion plasma propulsion plasma propulsion plasmas (physics) sputtering  operation The operation of associated transmit- di receiving apparatus in which the pro- of transmission and reception are con- metallurgy phase shift circuits switching circuits  ers  Devices which permit a single antenna to be used for both transmitting and g. Duplexers should not be confused olexers, devices permitting an antenna to be used simultaneously or separately transmitters. circuits circulators (phase shift circuits) magic tees monopulse radar
ductide- (adde SN UF RT C ductility GS	rocket engines engines . rocket engines . rocket engines . boster rocket engines boster rocket engines internal combustion engines liquid propellant rocket engines restartable rocket engines solid propellant rocket engines sustainer rocket engines sustainer rocket engines  brittle transition  brittle transition  brittle-TO-DUCTILE-TO-BRITTLE AND BRITTLE-TO-DUCTILE TRANSITIONS)) brittle-ductile transition brittleness ductility fracture strength plastic deformation transition temperature yield strength  mechanical properties . ductility brittleness compressive strength creep properties ductile-brittle transition elongation fatigue (materials) flattening fractography fracture strength hardness impact strength malleability	dullness USE  dummie RT  dummy USE  dump c DEF ing flow throught GS RT	differential equations Duffing differential equation nonlinear equations Duffing differential equation equations probability theory  luster  loads decoys models simulators  loads impedance loading output  ombustors  Combustors having a means of reducvelocity and forming recirculation zones the sudden enlargement area between duct and the combustion chamber. combustion chambers . dump combustors combustible flow combustion efficiency duct geometry ducted flow engine parts flame holders flow velocity inlet flow ramjet engines rocket engines  g disconnect devices disposal	duoplas GS  RT  duplex DEF ting and cesses current. RT  duplexe DEF system receivin with dip system by two to the control of t	electromagnetic radiation  generators light sources measuring instruments monochromators radiation sources spectrophotometers  smatrons ion sources . plasmatrons plasma generators . plasmatrons electric discharges ion propulsion plasma propulsion plasma (physics) sputtering  operation The operation of associated transmitdreceiving apparatus in which the prodof transmission and reception are con- metallurgy phase shift circuits switching circuits ers  Devices which permit a single antenna to be used for both transmitting and gl. Duplexers should not be confused elexers, devices permitting an antenna to be used simultaneously or separately transmitters. circuits circulators (phase shift circuits) magic tees

transmitters wind effects white dwarf stars dwell dusty plasmas duplicating (added May 2001) USE reproduction (copying) RT delav DEF lonized gases containing small particles of solid matter, which are charged and ignition systems 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 vectors (mathematics) . charged particles 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 ... plasmas (physics) . . dye lasers quality ... dusty plasmas dyes reliability infrared lasers dust ∞ 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 local group (astronomy) durene aniline . hydrocarbons anthraquinones . . cyclic hydrocarbons 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 particucelestial bodies ∞ markers GS 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 (added September 2006) . . . . interference drag ∞ dispersion Celestial bodies that are in orbit . satellite drag dispersions . dynamic pressure around the Sun, have sufficient mass for their 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 . . . . Taylor instability dust storms brown dwarf stars 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 . gravitational instability atmospheric physics late stars

Nemesis (star)

subdwarf stars subgiant stars

Mars (planet)

Mars surface

Mars environment

. flow characteristics

. . flow distribution

. . flow stability

. . . boundary layer stability critical loading usually expressed in decibels. . . . flame stability range (extremes) ∞ dynamics ... magnetohydrodynamic stability edge loading dynamic range . Weibel instability gas-solid interactions amplification . . . Goertler instability ŇASTRAN 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 microchannel plates . . interference lift wind pressure modulation . . jet lift . . rotor lift dynamic models ratios . . zero lift Models of aircraft or other objects havsignal detection . transient response ing their linear dimensions and weight and mosignal to noise ratios accuracy aerodynamic balance ments of inertia reproduced in scale in proportion to the original. dynamic response aerodynamic characteristics GS models GS responses amplification dynamic models . dynamic response automatic control automatic control valves bandwidth aircraft models biological models (mathematics) bond graphs . transient response aeroservoelasticity amplification ∞ characteristics dynamics damping large eddy simulation ∞ control ∞ dynamics fiber orientation mathematical models damping ocean models distribution (property) frequency domain analysis frequency response dynamic range Petri nets ∞ dynamics powered models impedance ∞ equilibrium similarity theorem modal response errors spacecraft models 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 disstability times the fluid velocity squared. In incompressturbed 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 GS state; specifically, the aerodynamic characterisdynamic pressure dynamic control pressure automatic control GS 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 model reference adaptive control . hovering stability dynamic programming robot control . . . attitude stability optimization robot dynamics . . . . directional stability mathematical programming . gyroscopic stability . dynamic programming dynamic loads . . . . lateral stability research DEF Loads imposed by dynamic action, as longitudinal stability . dynamic programming distinguished from a static load. Specifically, . . . flow stability RT ∞ applications of mathematics . boundary layer stability 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 . . thrust loads stability steepest descent method . . transient loads . dynamic stability . . . gust loads . . combustion stability dynamic properties . . . impact loads . . . flame stability USE dynamic characteristics ... landing loads . . control stability . . . shock loads . . frequency stability 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 . . . attitude stability
. . . directional stability axial loads

inducing changes in its gain characteristics;

. . . . . gyroscopic stability

compression loads

. . . . 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 . . . spacecraft stability gas dynamics power, torque, or thrust of aircraft engines or rockets. Used for electrodynamometers.

UF electrodynamometers 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 stable oscillations nutation static stability ocean dynamics dynamos plasma dynamics surface stability 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 dvnodes 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  $\infty$  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 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
aerothermodynamics
astrodynamics
astrodynamics dysprosium compounds Dynamics Explorer satellites
DEF Two satellites that have been designed rare earth compounds dysprosium compounds to occupy different orbits and supply compara-RT ∞ chemical compounds tive data for studying the boundary region between 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 other satellite's data. The satellites were ∞ metal compounds dysprosium isotopes UF dysprosium 161 GS chemical elements . 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

explosives

dynamite

dynamic models

dynamic modulus of elasticity

E glass  DEF A low alkali lime borosilicate glass made into glass fiber filaments used in compos-	command and control early warning systems ∞ military aircraft	semicircular canals
ite materials.	of Hillitary anotalit	Early Apollo Surface Experiments Package USE EASEP
GS glass	E-4A aircraft	
. E glass	UF AABNCP	Early Bird satellites
S glass RT composite materials	Advanced Airborne Command Post Boeing 747B aircraft	GS artificial satellites
glass fiber reinforced plastics	GS AWACS aircraft	. active satellites
glass fibers	. E-4A aircraft	SYNCOM satellites
silicon dioxide	Boeing aircraft	Early Bird satellites . communication satellites
T levere	. E-4A aircraft	SYNCOM satellites
E layers USE E region	RT ∞ aircraft	Early Bird satellites
OOL Liegion	command and control early warning systems	. synchronous satellites
E region	∞ military aircraft	SYNCOM satellites
SN (ALTITUDE RANGE BETWEEN	•	Early Bird satellites RT ATS
ÀPPROXIMATELY 90 AND 150 KM) DEF A portion of the ionosphere extending	EAI 680 computer	Comsat program
from about 90 to 150 km. In daylight, the elec-	GS data processing equipment	, 3
tron density has one maximum at about 105 km.	. computers analog computers	early stars
and is dependent upon solar activity and the	EAI 680 computer	GS celestial bodies
solar zenith angle. At night the E region nearly disappears except at high latitudes where par-	digital computers	. stars
ticle precipitation can produce ionization at alti-	EAI 680 computer	<b>early stars</b> hot stars
tutes greater than those expercienced under	EAI 8400 computer	A stars
sunlight conditions.	GS data processing equipment	B stars
UF E layers	. computers	shell stars
night E layer GS Earth atmosphere	digital computers	Sigma Orionis blue stars
. upper atmosphere	EAI 8400 computer	O stars
Earth ionosphere	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 sporadic E layer	digital computers	main sequence stars star formation
regions	EAI 8900 computer	Stat formation
. Ĕ region	EAM (physical shamistry)	early warning systems
E-1 layer	EAM (physical chemistry) (added February 1998)	GS warning systems
E-2 layer sporadic E layer	USE embedded atom method	early warning systems
RT lower ionosphere		Ballistic Missile Early Warning
upper ionosphere	EAP (polymers)	System RT air defense
	(added June 2000) USE electroactive polymers	AWACS aircraft
E-1 layer GS Earth atmosphere	OSE electioactive polymers	Cobra Dane (radar)
. upper atmosphere	ear	detection
Earth ionosphere	GS anatomy	E-2 aircraft
E_region	. sense organs	E-3A aircraft E-4A aircraft
E-1 layer	ear eardrums	missile detection
regions . E region	eustachian tubes	over-the-horizon radar
E-1 layer	labyrinth	radar targets
RT sporadic E layer	cochlea	radar tracking Synchronous Earth Observatory
=	Corti organ	satellite
E-2 aircraft UF Hawkeye aircraft	otolith organs semicircular canals	∞ systems
W2F aircraft	vestibules	warning
GS AWACS aircraft	middle ear	
E-2 aircraft	RT artificial ears	earphones
Grumman aircraft	auditory perception endolymph	DEF Electroacoustic transducers operatir from an electrical system to an acoustical sys
. <b>E-2 aircraft</b> iet aircraft	hearing	tem and intended to be closely coupled acoust
. turboprop aircraft	labyrinthectomy	tically to the ear. Used for headsets.
E-2 aircraft	mastoids	UF headsets
RT ∞ aircraft	otolaryngology otology	GS audio equipment . earphones
command and control early warning systems	olology	RT acoustics
∞ military aircraft	ear pressure test	auditory perception
passenger aircraft	GS physiological tests	interphones
turboprop engines	ear pressure test	sound transmission
E 0 laver	RT middle ear pressure pressure	telephones
E-2 layer 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 . E region	. <b>ear protectors</b> RT noise injuries	NASA space programs Earth & Ocean Physics
E-2 layer	noise reduction	Applications Program
RT sporadic E layer		. projects
E OA atawari	eardrums	Earth & Ocean Physics
E-3A aircraft GS AWACS aircraft	GS anatomy	Applications Program
. E-3A aircraft	. sense organs ear	. space programs 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 structural properties (geology) . . exosphere Earth (planet) Earth cryosphere . . thermosphere DEF That planet of the solar system which is fifth in size of the 9 major planets, and third (added June 1996) ... turbopause The part of the Earths surface that is acoustic sounding (between Venus and Mars) in order of distance perennially frozen - the zone of the Earth where aerospace environments from the sun (about 93 million miles). Major data ice and frozen ground are formed. for the Earth: equatorial radius: 6,378 kilometers air pollution RT air land interactions (3,963. 5 miles); polar radius: 6,357 kilometers air quality air water interactions (3,941 miles); equatorial circumference: 40,075 airglow ∞ cryospheres kilometers (24,902 miles). ∞ atmospheres ice environments UF world atmospheric circulation meteorology GS celestial bodies atmospheric composition permafrost . planets polar caps atmospheric electricity . terrestrial planets atmospheric entry Atmospheric General Circulation snow cover . . Earth (planet) Earth currents RT asteroid collisions Experiment Earth sciences USE telluric currents auroras Eastern Hemisphere bioastronautics Earth Energy Budget Experiment geodesy CERES (experiment) Earth magnetosphere USE LZEEBE satellite geoelectricity geography environments Earth environment geopotential height geology environments geomagnetism global air pollution . Earth environment geophysics GRACE mission air pollution ∞ globes greenhouse effect arid lands planetary craters meteor trails desertification polar caps MISR (radiometry) magnetosheath terrestrial radiation OPEN Project Western hemisphere planetary atmospheres Earth figure plasmasphere USE geodesy radiation belts DEF The fraction of the solar incident radiasatellite atmospheres Earth gravitation tion that is reflected off the Earth and back into scale height gravitation GS space. superrotation Earth gravitation GS albedo teleconnections (meteorology) geomagnetism . Earth albedo weathering geopotential absorptance geopotential height cosmic ray albedo **GRACE** mission Earth radiation budget Earth axis gravitational fields Earth radiation budget experiment DEF Any one of a set of mutually perpengravity anomalies Ebert spectrometers dicular reference axes established with the uplunar albedo right axis (the Z axis) pointing to the center of the Earth hydrosphere reflectance Earth, used in describing the position or perfor-DEF That part of the Earth that consists of terrestrial radiation mance of an aircraft or other body in flight. The the oceans, seas, lakes, and rivers. Used for hydrosphere (Earth). Earth axes may remain fixed or may move with Earth analogs the aircraft or other object. hydrosphere (Earth) biosphere hydrological cycle (added June 2004) axes (reference lines) DEF Structures, processes, or phenomena that occur on Earth, or have occurred in the Earths geologic past, extrapolated to other planaxes of rotation . Earth axis hydrology Chandler wobble lakes coordinates limnology analogies
. Earth analogs
astronomical models GS Earth orientation oceans geodesy seas polar wandering (geology) comparison
Earth planetary structure Earth ionosphere (ALTITUDES ABOVE APPROXIMATELY 50 KM)
Earth atmosphere SN planetary atmospheres Earth core planetary geology GS cores . upper atmosphere simulation . planetary cores terrain analysis Earth core . . . E region . . . . E-1 layer lithosphere Earth atmosphere Earth core . . . . E-2 layer GS Earth atmosphere core-mantle boundary . . . . sporadic E layer chemosphere dynamo theory free atmosphere geophysical fluids lower ionosphere . heterosphere structural properties (geology) . D region . . . upper ionosphere . homosphere . . . . F region . lower atmosphere . . troposphere Earth crust . . . . F 2 region . tropopause UF crustal dynamics RT atmospheric ionization . middle atmosphere GS crusts . . mesosphere . planetary crusts chemosphere ... mesopause . Earth crust CRRES (satellite) . . stratosphere lithosphere Earth magnetosphere ... ozonosphere . Earth crust Earth-ionosphere waveguide . . . stratopause coesite electrojets . midlatitude atmosphere continental drift exosphere . primitive Earth atmosphere core sampling field aligned currents . upper atmosphere heterosphere cratons ... Earth ionosphere crustal fractures homosphere ... E region Intasat satellite Earth mantle . . . . E-1 layer earthquake damage ion concentration . . . E-2 layer folds (geology) ion density (concentration) . . . . sporadic E layer lunar crust ∞ ionospheres ... lower ionosphere massifs ionospheric propagation

plates (tectonics)

stishovite

San Andreas Fault

sea floor spreading

. . D region

.... F region

... upper ionosphere

ionospheric storms

magnetosphere-ionosphere coupling

∘ lavers

mesosphere

midlatitude atmosphere remote sensing subduction (geology) Polar/GGS spacecraft space platforms space station payloads ∞ Earth motion (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)
Chandler wobble satellite atmospheres SN space station polar platforms shear layers space weather Earth orbital environments thermosphere GEO environments Farth movements Geosynchronous Earth Orbital Earth orientation Environments Farth rotation Earth limb LEO environments polar wandering (geology) GS planetary limb low Earth orbital environments Earth limb solar orbits environments astronomy . aerospace environments Earth movements libration ... Earth orbital environments ∞ limbs GS Earth movements . extraterrestrial environments earthquakes . Earth orbital environments landslides extraterrestrial radiation Earth magnetosphere RT avalanches low Earth orbits GS environments crevasses microgravity near Earth objects . Earth magnetosphere crustal fractures . . geomagnetic tail ∞ Earth motion space weather . . magnetopause earthquake damage spacecraft glow . magnetosheath geodynamics AMPTE (satellites) large aperture seismic array Earth orbital rendezvous barium ion clouds neotectonics UF EOR (rendezvous) Chapman-Ferraro problem sea floor spreading maneuvers Cluster Mission seismic waves . orbital maneuvers corotation seismology . . orbital rendezvous CRRES (satellite) tectonics . . . Earth orbital rendezvous Earth atmosphere tsunami waves rendezvous Earth ionosphere . space rendezvous exosphere Earth observations (from space) exosphere field aligned currents geomagnetic hollow geomagnetism GEOS satellites (ESA) . . orbital rendezvous The acquisition of Earth surface data . . Earth orbital rendezvous from aircraft or spacecraft. lunar orbital rendezvous orbital mechanics observation GS Earth observations (from space) rendezvous trajectories heterosphere . satellite observation spacecraft trajectories IMAGE satellite aerial photography transfer orbits International Magnetospheric Explorer Aqua spacecraft International Magnetospheric Study Aura spacecraft Earth orbiting space stations KP index CALIPSO (Pathfinder satellite) USF space stations magnetic fields CERES (experiment) magnetosphere-ionosphere coupling CloudSat Earth orbits (ORBITS AROUND THE EARTH) orbits magnetospheres data acquisition SN GS neutral sheets Earth Observing System (EOS) **OPEN Project** Earthnet . Earth orbits planetary magnetospheres Feature Identification and Location . . geosynchronous orbits plasma clouds . . low Earth orbits plasmapause International Geosphere-Biosphere . . twenty-four hour orbits plasmasphere program apogees polar cusps Landsat satellites Apollo asteroids Polar/GGS spacecraft MODIS (radiometry) circular orbits radiation belts multispectral band scanners circumlunar trajectories radiation trapping elliptical orbits multispectral photography satellite atmospheres observation scheduling equatorial orbits screen effect Hansen lunar theory photography solar planetary interactions Shuttle Imaging Radar Hill lunar theory solar terrestrial interactions SPOT (French satellite) Hill method solar wind velocity Terra spacecraft lunar orbits space plasmas Near Earth Asteroid Rendezvous Mission space weather Earth Observing System (EOS)
DEF NASA's orbital multisensor observathermosphere orbital lifetime Wind/GGS spacecraft orbital mechanics tory system for the long term acquisition of Earth parking orbits sciences data to be operated in conjunction with an integrated ground-based science information perigees Earth magnetotail system. This international system will become planetary orbits USE geomagnetic tail operational in 1995 when the first of four polar polar orbits platforms will be launched. The first and third will satellite orbits be launched under U.S. auspices. The second spacecraft orbits under ESA auspices and the last under Japastationary orbits nese auspices. transfer orbits EOS Earth Observing System (EOS) Earth orientation Aqua spacecraft Chandler wobble Earth axis

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 lower mantle, with a transition zone between. Used for mantle (Earth structure).

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

structural properties (geology)

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

# precession Earth planetary structure

∞ Earth motion

nutation

Earth rotation

polar wandering (geology)

RT asthenosphere continental drift Earth analogs geology geophysics hydrology lithosphere oceanography

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

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

ESA satellites

Landsat satellites

remote sensors

European space programs

EASEP

payloads

lunar exploration

RT ∞ instruments

Earth Viewing Applications

Laboratory

. Space Shuttle payloads

payloads

0	∞ surfaces		elongation		radiotelephones
Fast G	ermany		skewness		sonar
	German Democratic Republic		symmetry variability		switches telephony
01	Peoples Democratic Republic of		variations		voice communication
	Germany		variations		voice communication
GS	nations	eccentr	rics	echoca	ardiography
	. East Germany	UF	cranks		bioengineering
RT	Central Europe	RT	cams		. biometrics
	Europe		linkages		cardiography
	German space program				phonocardiography
	Germany		te gratings		echocardiography
	West Germany	GS	gratings (spectra) . echelette gratings	RT	cardiac ventricles
East Pa	akistan	DT	diffraction		heart diseases
	Bangladesh	n i	echelle gratings		heart function
USL	Daligiauesii		reflection	aabaar	ncephalography
Easterr	n Hemisphere		Tellection		A diagnostic technique in which pulse
	Earth (planet)	echelle	gratings		sonic waves are beamed through th
	geography		ed August 1988)		rom both sides, and echoes from th
0	∞ hemispheres	GS	gratings (spectra)		ctures of the brain are recorded a
	Western hemisphere		. echelle gratings		tracings.
		RT	diffraction		bioengineering
eating			echelette gratings		. biometrics
GS	0		reflection		echoencephalography
RT	. eating	aabala-	n faulte	RT	bioinstrumentation
	digesting ∞ food	echelon	geological faults		brain
٥	∞ lood mastication	USE	geological laults		electrophysiology
	space flight feeding	Echo 1	carrier rocket		medical electronics
	swallowing		Thor Delta launch vehicle		medical equipment
	synthetic food				
	-,		satellite	echoes	Waves that have been reflected of
bert s	spectrometers		A-11 satellite		se returned with sufficent magnitude an
GS	measuring instruments	GS			be detected as a wave distinct from the
	. optical measuring instruments		. passive satellites		transmitted. In radar, a pulse of reflecte
	. Ebert spectrometers		Echo satellites		equency energy; the appearance on
	radiation measuring instruments	DT	Echo 1 satellite		ndicator of the energy returned from
	Ebert spectrometers	RI	Thor Delta launch vehicle	target.	g,
	. spectrometers	Echo 2	satellite		echoes
	Ebert spectrometers		A-12 satellite		. auroral echoes
	optical equipment	GS	artificial satellites		. lunar echoes
	optical measuring instruments	ao	. passive satellites		lunar radar echoes
RT	Ebert spectrometers Earth albedo		Echo satellites		. radar echoes
пі	filter wheel infrared spectrometers		Echo 2 satellite		angels (radar)
	infrared spectrometers		unmanned spacecraft		clutter
	ultraviolet spectrometers		Echo 2 satellite		lunar radar echoes
	ultiaviolet spectrometers				solar radar echoes
EBF		Echo p			Venus radar echoes
USE	externally blown flaps	GS	programs		. radio echoes
	•		. NASA programs	DT	. signal reflection
BR-1	reactor		NASA space programs	RT	
USE	Experimental Breeder Reactor 1		Echo project		cepstral analysis
			. projects		echo sounding
	reactor		Echo project		ground effect (communications) noise (sound)
USE	Experimental Breeder Reactor 2		. space programs		reverberation
			NASA space programs Echo project		reverberation
ebullitio		DT	communication satellites	eclipse	project
USE	boiling	n i	passive satellites		programs
RWR	(reactor)		passive satellites		. projects
	experimental boiling water reactors	Echo sa	atellites		eclipse project
002	onpointed bounds in a control of	GS			
EC-121	l aircraft		. passive satellites	eclipse	
USE	C-121 aircraft		Echo satellites		The reductions in visibility or disar
			Echo 1 satellite		ces of nonluminous bodies by passin
	ā aircraft		Echo 2 satellite		shadows cast by another nonluminou
USE	C-135 aircraft	RT	Agena B rocket vehicle		The apparent cutting off, wholly or pa
			Agena rocket vehicles		the light from a luminous body by a dar
	ric Geophysical Observatory				oming between it and the observer.
USE	EGO		ounding	GS	eclipses
	via Orbit Caaphyaisal Obaamatam	GS	sounding		. lunar eclipses
	ric Orbit Geophysical Observatory	DT	. echo sounding	RT	. solar eclipses eclipsing binary stars
USE	EGO	RT	deep scattering layers	ΠI	lunar shadow
ccent	ric orbits		depth measurement echoes		occultation
	orbits		navigation aids		penumbras
ao	. eccentric orbits		sodar		umbras
RT	circular orbits		sonar		umbias
	elliptical orbits		sound localization	eclipsi	ng binary stars
	Exosat satellite		sound ranging		celestial bodies
	Lissajous figures		underwater acoustics	30	. stars
			asormator accustico		double stars
ccenti	ricity	echo si	uppressors		binary stars
RT			circuits		eclipsing binary stars
	asymmetry		. echo suppressors		dwarf novae
	balancing		suppressors		Lambda Tauri stars
	concentricity		echo suppressors		Zeta Aurigae star
	deviation	RT	noise reduction	RT	accretion disks
	ellipticity		pulse radar		cataclysmic variables

	eclipses		acturing		Eddington approximation
	stellar occultation	resour			
	superhumps (astronomy)		industrialization	eddy cı	
	symbiotic stars	urban	development	SN	(LIMITED TO ELECTRIC CURRENTS)
	variable stars				Electric currents caused to flow in a
	x ray binaries	economic fact	ors		or by the time or space variation, or
		RT allocat	ions		an applied magnetic field.
ecliptic		budge	ting	GS	electric current
	The apparent annual path of the sun	commo	ercial energy		eddy currents
among t	the stars; the intersection of the plane of	costs	<i>5.</i>	RT	braking
he Eart	th's orbit with the celestial sphere. The		ping nations		electric conductors
	is a great circle of the celestial sphere		tic energy		electrical properties
	at an angle of about 23 degrees 27	econoi			hysteresis
	to the celestial equator.				losses
RT	planets	efficier			magnetic properties
n.i			policy	~	physical properties
	solar orbits		lity analysis		plasma currents
	zodiac	industr	ial energy		•
		insurai	nce (contracts)		vorticity transport hypothesis
eclogite		manag	jement		,
GS	rocks	reserv	es	eddy dif	
	. igneous rocks	resour	ces	USE	turbulent diffusion
	eclogite	transp	ortation energy		
RT	gadolinium-gallium garnet		3,	eddy vi	
	garnets	economic imp	act	DEF	The turbulent transfer of momentum by
	pyroxenes		pact on the economy from what-	eddies g	giving rise to an internal fluid friction, in a
	soils		ipact off the economy from what-	manner	analogous to the action of molecular
	00110	ever cause.			in laminar flow, but taking place on a
acologic	cal systems	GS impact			rger scale.
_	•	. econ	omic impact		transport properties
OSE	ecosystems	RT costs		GS	. viscosity
		enviro	nments		,
cology		industr	ies	D.T.	. eddy viscosity
	The study of the environmental rela-	investr	nents	RT	Baldwin-Lomax turbulence model
ions of o	organisms. Used for ecological systems.	resour			flow characteristics
GS	ecology	100001			flow resistance
	. coastal ecology	acanamica			internal friction
RT	biochemical oxygen demand	economics	of the constitution of the state		large eddy simulation
~	⇒ biology		of the production, distribution,		turbulent flow
	biometeorology		on of goods and services.		viscous drag
	carbon cycle	GS <b>econo</b>	mics		viscous flow
		. dema	and (economics)		VISCOUS NOW
	Central Atlantic Regional Ecol Test	RT costs		edema	
	Site	econoi	metrics		siens and symptoms
	closed ecological systems	evalua	tion	GS	signs and symptoms
	coastal plains	fiducia			edema
	Earth sciences	income		RT	body fluids
	ecosystems		tional trade		diuresis
	endangered species				water balance
	energy policy	investr			
	environments	prejud		edge cr	acks
	Gaia hypothesis	progre		_	ed October 1997)
	habitability	recess	ion		fractures (materials)
		resour	ces	ao	. cracks
	habitats	statisti	cal analysis		
	phenology		•	БТ	edge cracks
	predators	economy		RT	cracking (fracturing)
	symbiosis	RT cost es	etimatae		edge loading
	vegetation growth				edges
			on making		stress intensity factors
e-comm	nerce		nic analysis		surface cracks
(adde	ed April 2000)		mic development		
	electronic commerce	econoi	mic factors	edge de	etection
002		financi	al management		ed January 1990)
conom	netrice	low co	st	UF	
	The application of mathematics and	manag	ement planning	GS	detection (imagery)
		recycli	ng	ao	
	al techniques to the testing and quanti-	,	-	DT	. edge detection
	economic theories and the solution of	ecosystems		RT	•
	ic problems.		iical systems		image analysis
HI∝	applications of mathematics		ecological systems		image processing
	economics				pattern recognition
	gross national product	ecolog			scene analysis
	statistical correlation		gered species		
		food c		edae di	slocations
conom	nic analysis	Gaia h	ypothesis	ŬF	slip bands
RT	allocations	predat	ors	GS	defects
	comparison	∞ system	ns		. crystal defects
	cost analysis	ECS			crystal dislocations
	cost estimates		ean Communications		edge dislocations
	costs		tellite		dislocations (materials)
	economy	Sa	temte		. crystal dislocations
	efficiency				edge dislocations
	management	Ecuador		RT ∝	∍ bands
	operating costs	GS nations			kink bands
	value engineering	. Ecua	dor		screw dislocations
	<del> </del>	RT South	America		
conor	nic development			edge lo	ading
		eddies			
RT	commerce	USE vortice	ne .	GS	loads (forces)
	developing nations	OGE VOILIC	<b>5</b> 3	5.7	. edge loading
	economy			RT	aerodynamic loads
	geographic distribution	Eddington app			compression loads
	geography		is (mathematics)		dynamic loads
	industries		erical analysis		edge cracks
	land use		roximation		static loads

	wing loading		color television		lunar gravitational effects
			communication equipment		Luxembourg effect
edges			learning		magnetic effects
GS	edges		networks		Magnus effect
	. leading edges blunt leading edges		stereotelevision		Moire effects Mossbauer effect
	sharp leading edges		training devices		Nernst-Ettingshausen effect
	. trailing edges	EEG (el	lectroencephalograms)		nonohmic effect
	blunt trailing edges	USE	electroencephalography		nuclear explosion effect
RT	edge cracks				Overhauser effect
	margins	effective	e perceived noise levels EPNL		pathological effects
	rims scalloping	GS	level (quantity)		Peltier effects Penning effect
	sides	ac	. effective perceived noise levels		photoelectric effect
	tips	RT	acoustic measurement		photoelectromagnetic effects
			acoustics		photomagnetic effects
editing	d-t		loudness		photomechanical effect
RT	data processing data reduction	~	∘ noise noise (sound)		photovoltaic effect
	editing routines (computers)		noise intensity		physiological effects pinch effect
	format		noise reduction		POGO effects
	technical writing		sound intensity		Portevin-le Chatelier effect
oditing	routings (somputors)	-4441			Poynting-Robertson effect
	routines (computers) computer programs	effective GS	eness effectiveness		pressure effects
ao	. editing routines (computers)	45	. cost effectiveness		proximity effect (electricity) psychological effects
RT	computer systems programs		. system effectiveness		radiation effects
	data processing	RT	antenna gain		Ramsauer effect
	editing		efficiency		reentry effects
EDTA		offeete			relativistic effects
USE	ethylenediaminetetraacetic acids	∞ effector	r <b>s</b> ed September 1989)		scale effect Schach effect
	,	SN	(USE OF A MORE SPECIFIC TERM IS		screen effect
educati			RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		Seebeck effect
UF	instructions	RT	actuators		solar activity effects
	teaching training		control equipment		Stark effect
GS	education		end effectors		sterilization effects Suhl effect
	. ejection training		manipulators		Sunyaev-Zeldovich effect
	. flight training	∞ effects			surface effect ships
	pilot training	SN	(USE OF A MORE SPECIFIC TERM IS		surface roughness effects
	space flight training astronaut training		RECOMMENDEDCONSULT THE TERMS		sweep effect
	gunnery training	UF	LISTED BELOW) affects		temperature effects
	. maintenance training	RT	atmospheric effects		thermoacoustic effects thermomagnetic effects
	. programmed instruction		Auger effect		turbulence effects
	computer assisted instruction		Barkhausen effect		Umkehr effect
RT	behavior		Bauschinger effect		vacuum effects
	communicating creativity		biological effects Brillouin effect		vibration effects
	educational resources		brown wave effect		view effects
	experience		capture effect		Voigt effect wind effects
	human factors engineering		causes		Zeeman effect
	human resources		Cerenkov radiation		Zener effect
	instructors knowledge		chemical effects Coanda effect		
	learning		compressibility effects	UF	motor systems (biology)
	learning theory		Compton effect	GS	anatomy
	lectures		Coriolis effect		. nervous system
	memory		diffusion		efferent nervous systems
٥	orientation psychometrics		Doppler effect Doppler-Fizeau effect	RT	sensorimotor performance
	qualifications		electro-optical effect	∞	systems
	retraining		environment effects	efferves	scence
	safety management		Ettingshausen effect	RT	boiling
	schools		Faraday effect		bubbles
	students ∍ tests		field effect transistors Fizeau effect		surface properties
0	textbooks		Forbush decreases	efficienc	cv
	training analysis		galvanomagnetic effects	GS	efficiency
	training devices		gravitational effects		charge efficiency
	transfer of training		green wave effect		. combustion efficiency
	universities		greenhouse effect ground effect (aerodynamics)		. compressor efficiency . energy conversion efficiency
educati	onal resources		ground effect (derodynamics)		. nozzle efficiency
	ed April 2004)		ground effect machines		. power efficiency
DEF	Products produced for educational or		Gunn effect		. propulsive efficiency
	purposes.		Hall effect		. propeller efficiency
GS	educational resources		hydrodynamic ram effect		transmission officiency
RT	. textbooks education		isotope effect Jahn-Teller effect	RT	. transmission efficiency aircraft production costs
	learning		jet blast effects	111	comfort
	manuals		Joule-Thomson effect		commonality
		~	Kerr effects		compression ratio
	onal television		Kerr electrooptical effect		computer systems performance
GS	telecommunication . educational television		Kerr magnetooptical effect Kirkendall effect		cost incentives cost reduction
	television systems		Kondo effect		costs
	. educational television		long term effects		economic analysis
RT	closed circuit television		lunar effects		economic factors

	<b>"</b>				
	effectiveness	RT	Africa		einsteinium
	feasibility				metals
	figure of merit	EH-10	1 helicopter		. actinide series
	human factors engineering	(add	ded April 1997)		transuranium elements
	incentive techniques	ÙF	Heliliner (helicopter)		einsteinium
	indexes (ratios)		Merlin (helicopter)	RT	einsteinium compounds
	optimization	GS	V/STOL aircraft	***	oniotomiam compoundo
	•	40	. rotary wing aircraft	einsteir	nium compounds
~	performance				•
	productivity		helicopters	GS	actinide series compounds
	ratios		EH-101 helicopter		. einsteinium compounds
	utilization	RT	∞ aircraft	RT	einsteinium
			commercial aircraft		
effluent	s		military helicopters	EISCAT	radar system (Europe)
RT	air pollution		, ,	DEF	The European Incoherent Scatter Ra-
	contaminants	FHW (	computers)		em. Used for European Incoherent Scat-
_			ded September 2001)	ter Rad	
00	o discharge				
	environment protection	USE	evolvable hardware	UF	European Incoherent Scatter Radar
	exhaust gases			GS	radar
	filtration	eigenfl	unctions		. incoherent scatter radar
	liquid wastes	USE	eigenvectors		EISCAT radar system (Europe)
	reaction products			RT	incoherent scattering
	settling	eigens	tates		international cooperation
	•	USE	eigenvectors		
	sewage	USL	eigenvectors		ionospheric propagation
	sewers				radar scattering
	volcanic eruptions	eigenv			radar transmission
	waste disposal	UF	characteristic equations	•	∘ systems
	wastes		characteristic functions		ultrahigh frequencies
	Wasies	GS	algebra		ditratiligit irequerioles
		40	•	-14-	
efflux			. vector spaces	ejecta	
RT	emission		matrices (mathematics)	DEF	Matter ejected during impact cratering
	output		eigenvalues	process	es, usually meteoritic.
		RT	eigenvectors	· RT	cratering
effort			flux vector splitting		craters
	abilities		Hill determinant		
RT	abilities				debris
	consistency		Jacobi matrix method		ejection
	fatigue (biology)		Jordan form		fragments
~	performance		polynomials		impact damage
	physical work		roots of equations		Mars craters
	physical work				meteorite craters
		oigony	rectors		
effusive					meteoritic damage
GS	effusives	UF	characteristic equations		projectile cratering
	. lava		characteristic functions		Wolf-Rayet stars
RT	cones (volcanoes)		eigenfunctions		,
	igneous rocks		eigenstates	ejection	1
		GS	algebra		
	Mars volcanoes	do		GS	ejection
	rocks		vector spaces		. stellar mass ejection
	volcanoes		matrices (mathematics)		coronal mass ejection
	volcanology		eigenvectors	RT	bailout
			vectors (mathematics)		∘ discharge
ECCD /	(reactor)		eigenvectors	ŭ.	
EGCR (	,	ОТ			disconnect devices
USE	experimental gas cooled reactors	RT	eigenvalues		disposal
			Jacobi matrix method		dumping
eggs			Mathieu function		ejecta
GS	cells (biology)		polynomials		ejectors
	. gametocytes		,		emission
	= -	a:lrana	.l amustiam		
	eggs		ll equation		emptying
	zygotes	GS	wave equations		escape (abandonment)
RT	embryos		. eikonal equation		escape systems
	fetuses	RT	∞ equations		evacuating (transportation)
00	o food		geometrical optics		evacuating (vacuum)
	ovaries		Pomeranchuk theorem		
	Ovaries				exhausting
			refracted waves		expulsion
EGO			wave fronts		expulsion bladders
UF	Eccentric Geophysical Observatory		∞ waves		flushing
	Eccentric Orbit Geophysical				jettison systems
	Observatory	Finste	in equations		jettisoning
	EOGO	GS	•		,
00		do			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		∞ equations		unloading
	OGO		equations of motion		
	EGO		grand unified theory	ejectior	n injuries
RT	Agena B rocket vehicle		kinetic equations	GS	injuries
	Atlas launch vehicles		probability theory	2.0	. ejection injuries
	POGO		p. soublinty tricory	DT	
	1 000	Fir4	in Observator:	RT	bailout
			n Observatory		pilot training
egress		USE	HEAO 2		
RT	air locks			ejectior	n seats
	doors	einstei	inium	GS	onboard equipment
	hatches	GS	chemical elements	30	. aircraft equipment
		us			
	ingress (spacecraft passageway)		. actinide series		ejection seats
	openings		transuranium elements		flying ejection seats
	outlets		einsteinium		safety devices
			. nuclides		. ejection seats
Egypt			isotopes		flying ejection seats
	nations				
GS	nations		radioactive isotopes		seats
	. Egypt		transuranium elements		. ejection seats

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

	plastic shells		Lame wave equations		RTV-40 rubber (trademark)
			longitudinal waves		RTV-60 rubber (trademark)
	stability		magnetohydrodynamic stability	RT	chloroprene resins
USE	damping		plane waves polarized radiation	RI	latex organic materials
elastic	strength		pressure		plastics
	proportional limit		pulsed radiation	۰	o polymers
	proposition and	۰	radiation		solithanes
∞ elastic	systems		radiation distribution		sponges (materials)
SN			radiation pressure		thioplastics
	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		rarefaction	elaston	actors
RT	earthquake resistant structures		reflected waves refracted waves	GS	measuring instruments
	elastic bodies		sine waves	ao	. elastometers
	∞ systems		solitary waves	RT	elastic properties
elastic	wayoe		sound transmission		extensometers
UF	expansion waves		spherical waves		strain gages
0.	loading waves		stress propagation	elacton	lasticity
	pressure waves		surface waves transverse waves		mechanical properties
	rarefaction waves		traveling waves	0.0	. elastic properties
GS	elastic waves		tropospheric waves		elastoplasticity
	. capillary waves		underwater acoustics		. plastic properties
	gravity waves baroclinic waves		vibration	рт	elastoplasticity
	ripples		wave dispersion	RT	J integral plastic bodies
	. coherent acoustic radiation	۰	• waves		plastic bodies plastic plates
	. compression waves	elasticit	V		plastic shells
	. dilatational waves	USE	elastic properties		superplastic forming
	. ionic waves	002			3
	. magnetoelastic waves	elasticiz	rers	elastos	
	magnetoacoustic waves	USE	plasticizers	RT	elastic bodies
	. magnetohydrodynamic waves				elastic deformation
	plasma waves electrostatic waves	elastin	hian aluma va		elastic media
	. P waves	GS	biopolymers . proteins		elastic properties elastodynamics
	. phonons		. elastin		statics
	phonon beams		organic compounds		Statios
	polarized elastic waves		. proteins	Elber e	quation
	. S waves		elastin	DEF	In fatigue crack propagation studies,
	SH waves	RT	albumins		ctive stress range ratio $U = 0.5 + 0.4R$ ,
	. seismic waves				R is the stress ratio.
	Love waves microseisms		ynamics	RT	crack closure
	Rayleigh waves	GS	elastodynamics		cracks
	. shock waves		. elastic damping		cyclic loads
	detonation waves		. viscoelastic damping . elastohydrodynamics	0	<ul><li>equations</li><li>fractography</li></ul>
	interplanetary shock waves	RT ∘	o dynamics		fractography fracture mechanics
	Mach cones		elastic bodies		microcracks
	normal shock waves		elastic deformation		stress concentration
	oblique shock waves		elastic media		stress cycles
	Riemann waves		elastic properties		
	sonic booms		elastic waves		anatomy)
	. sound waves electroacoustic waves		elastostatics	GS	anatomy . limbs (anatomy)
	ion acoustic waves		electrorheological fluids		arm (anatomy)
	. Lamb waves	elastoh	ydrodynamics		elbow (anatomy)
	noise (sound)		elastodynamics		. musculoskeletal system
	aircraft noise		. elastohydrodynamics		joints (anatomy)
	blade slap noise		mechanics (physics)		elbow (anatomy)
	jet aircraft noise		. fluid mechanics		appendages
	propeller noise		fluid dynamics		. arm (anatomy)
	sonic booms		hydrodynamics	DT	elbow (anatomy)
	engine noise rocket engine noise		elastohydrodynamics	RT	humerus
	flow noise		hydromechanics hydrodynamics		ulna
	thermal noise		elastohydrodynamics	Eldo la	unch vehicle
	aerodynamic noise	RT	ball bearings	GS	launch vehicles
	blade slap noise		elastic waves		. Eldo launch vehicle
	propeller noise		friction measurement		rocket vehicles
	screech tones		lubrication		. multistage rocket vehicles
	. stress waves		rotating cylinders		Eldo launch vehicle
	. Tollmien-Schlichting waves		squeeze films	RI	Ariane launch vehicle Blue Streak launch vehicle
	. ultrasonic radiation . unloading waves		water waves		Europa launch vehicles
RT	acoustic propagation	elaston	ners		European 1 spacecraft
	acoustic simulation	DEF	Macromolecular materials which, at		European Space Agency
	acoustics		emperature, are capable of recovering		- p p
	aeolian tones	substan	tially in size and shape after removal of	Electra	aircraft
	background noise		ning force.	GS	commercial aircraft
	backward waves	GS	elastomers		. Electra aircraft
	cnoidal waves		. rubber		jet aircraft
	coherent radiation		synthetic rubbers		. turboprop aircraft
	combustion vibration		Adiprene (trademark) Buna (trademark)		Electra aircraft Lockheed aircraft
	continuous radiation cylindrical waves		silicone rubber		. Electra aircraft
	diffusion waves		RTV-40 rubber (trademark)		monoplanes
	Doppler effect		RTV-40 rubber (trademark)		. Electra aircraft
	elastodynamics		Viton rubber (trademark)		passenger aircraft
	elastohydrodynamics		vulcanized elastomers		. Electra aircraft

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

static electricity zwitterions ∞ tests

electric current

UF amperage electroseismic effect Hall currents photocurrents

#### GS electric current

- . alternating current
- beam currents . Brillouin flow
- . direct current
- eddy currents
- . electric discharges
- . . arc discharges
- . . electric arcs
- . carbon arcs . . . mercury arcs
- electric corona
- . . electric sparks
- electrodeless discharges
- flashover
- glow discharges
- . . lightning
- . ball lightning
- . . . cloud-to-cloud discharges
- . . . cloud-to-ground discharges
- . . . intracloud discharges
- . . . leaders (meteorology)
- . . . . stepped leaders
- multipactor discharges . . Penning discharge
- radio frequency discharge
- . . Saint Elmo fire
- . . Townsend discharge
- . . . gas discharges . . . toroidal discharge

- . . . . ring discharge
  . external surface currents
- . field aligned currents
- . Birkeland currents
- . high current
- . ionospheric currents
  . . Birkeland currents
- . . electrojets
- . auroral electrojets
- equatorial electrojet
- Pedersen currents
- . critical current . dark current
- . line current
- . low currents
- . plasma currents
- . ring currents
- . short circuit currents
- telluric currents
- . threshold currents

ammeters

circuits 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 potentia

low conductivity micromilliammeters

Ohms law power conditioning

system generated electromagnetic

pulses

transmission lines

volt-ampere characteristics

#### electric dipoles

GS electric charge

- . electric dipoles . orbiting dipoles
- RT ∞ dipoles
  - magnetic dipoles

electric discharges

The flowing of electricity through a gas, resulting in the emission of radiation that is characteristic of the gas and the intensity of the

GS electric current

#### . electric discharges

- . . arc discharges
- . . electric arcs
- . . . carbon arcs
- ... mercury arcs
- . . electric corona
- . . electric sparks
- electrodeless discharges
- . . flashover
- glow discharges
- . . lightning
- . . . ball lightning . . . cloud-to-cloud discharges
- cloud-to-ground discharges intracloud discharges
- . . . leaders (meteorology)

- . . multipactor discharges
  . . Penning discharge
- radio frequency discharge
- Saint Elmo fire
- . . Townsend discharge
- . . . gas discharges
- . . . toroidal discharge
- . . ring discharge

avalanches

- coronas
- ∞ discharge
- duoplasmatrons
- electron emission electrostatic charge
- ∞ flash
- ionization lightning suppression
- Molniya satellites
- plasma currents
- space charge Zener effect

electric energy storage GS

energy storage electric energy storage

capacitors

direct power generators electrets

electrochemical capacitors inductors

# potential energy

∞ electric equipment SN

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

UF electric appliances RT

airborne equipment

circuits

current regulators

electric generators

electric power transmission

electricity electromechanical devices electronic equipment

heating equipment homopolar generators

lighting equipment

logistics miniature electronic equipment

motors

solenoid valves

voltage converters (AC to AC)

voltage converters (DC to DC) welding machines

# electric equipment tests

(CHECKOUT OF ELECTRICAL SN EQUIPMENT) electrical measurement

electronic equipment tests around tests

electric field strength

GS field strength

electric field strength

Coulomb potential

∞ force H waves ∞ strength

electric fields

electrostatic fields

RT barium ion clouds cavitons

constitutive equations

Coulomb potential

crossed fields

crystal field theory dielectric polarization

electrets electrodynamics

electromagnetism electromechanics

electrostatic charge electrostatics

external surface currents field emission

field strength

∞ fields Lienard potential

magnetic fields Pedersen currents

permittivity

polarity spacecraft charging

spark gaps

Stark effect static electricity

# electric filters

GS electromagnetic wave filters

- . electric filters
- . . bandstop filters
- . . crystal filters . . digital filters
- ... FIR filters
- ... IIR filters
- . . microwave filters
- . . radar filters . . radio filters
- . . tracking filters

. waveguide filters

adaptive filters

bandpass filters

capacitors

circuits.

electronic filters

∞ filters

high pass filters

infrared filters Kalman filters linear filters

low pass filters nonlinear filters optical filters

RC circuits

receivers reduced order filters resistors transformers

tunable filters

ultraviolet filters

Wiener filtering

electric furnaces DEF Furnaces whose heat is derived from electrical energy, generally achieved through resistance heating. Materials research and

space processing are research uses. heating equipment . furnaces

. . electric furnaces RT ∞ materials

space processing

electric fuses circuit protection disconnect devices

 $\infty\,\text{fuses}$ ∞ electric cells decommutators ∞ electric equipment power factor controllers electrical engineering electric generators electromotive forces servomechanisms electric power conversion ∞ energy sources servomotors electrogenerators generators stators power generators nuclear electric power generation transformers GS electric generators ∞ power . AC generators power conditioning electric networks . . linear alternators GS networks power supplies . static alternators SNAP electric networks . direct power generators solar ponds (heat storage) impedance matching . . DC generators static inverters sneak circuit analysis . . . homopolar generators voltage controlled oscillators thermonuclear power generation electrostatic generators tide powered generators . . fuel cells electric outlets windmills (windpowered machines) biochemical fuel cells  $RT \, {\it \infty} \, power \, \, transmission$ windpowered generators . . . hydrogen oxygen fuel cells . molten carbonate fuel cells electric potential electric hybrid vehicles . . . phosphoric acid fuel cells DEF In electrostatics, the work done in mov-Surface vehicles which utilize propul-. regenerative fuel cells ing unit positive charge from infinity to the point sion systems of both electric motors and con-. . solid oxide fuel cells whose potential is being specified. Used for ventional internal combustion engines. . . magnetohydrodynamic generators . . photoelectric generators voltage. UF surface vehicles voltage electric hybrid vehicles potential energy
. electric potential
. bioelectric potential
. contact potential . . . photovoltaic cells GS automobiles . . solar cells internal combustion engines . . . . vertical junction solar cells . . . primary batteries ∞ rotating electrical machines ∞ vehicles . . Coulomb potential . . high voltages . alkaline batteries . . . dry cells . . . . magnesium cells electric ignition ignition . electric ignition . Lienard potential GS . nickel zinc batteries . . low voltage . . . metal air batteries open circuit voltage igniters . zinc-oxygen batteries sodium sulfur batteries photovoltages ignition systems . . quantum wells spark ignition . thermal batteries ... photoexcitation squibs radioisotope batteries . SNAP 7 spike potentials starting threshold voltage SNAP 9A RT Barritt diodes electric impulses ... SNAP 11 USE electric pulses capacitance-voltage characteristics SNAP 15 electromotive forces electric moments ... SNAP 17 Gibbs-Helmholtz equations electrical properties GS SNAP 19 ionization potentials electric moments ... SNAP 21 Kirchhoff law of networks moments SNAP 23 overvoltage . dipole moments ... SNAP 27 ∞ potential electric moments . SNAP 29 potentiometers (instruments) magnetic moments power conditioning . . thermionic converters polarization (charge separation) . SNAP 13 static electricity . . . solar blankets transconductance electric motor vehicles thermoelectric generators GS surface vehicles . motor vehicles volt-ampere characteristics ... SNAP 3 ∞ electric power SNAP 7 . . electric motor vehicles (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) electrical energy ... SNAP 9A . . electric automobiles . SNAP 10A RT automated transit vehicles ... SNAP 11 automobiles SNAP 15 crawler tractors auxiliary power sources ... SNAP 17 research vehicles electric batteries SNAP 19 roadway powered vehicles electric current ... SNAP 21 test vehicles electric power plants SNAP 23 tractors electric propulsion ... SNAP 27 trucks electrical properties ... SNAP 29 ∞ vehicles electricity . solar sea power plants electrification . rotating generators electric motors geothermal energy utilization hydroelectricity induction motors amplidynes GS electromechanical devices dynamometers . electric motors . . homopolar generators asynchronous motors Poynting theorem . . turbogenerators ... induction motors tokamak devices . . . ASTEC solar turboelectric . . micromotors turbogenerators generator . . piezoelectric motors utilities . solar generators stepping motors voltage converters (AC to AC) . . solar auxiliary power units synchronous motors voltage converters (DC to DC) ... ASTEC solar turboelectric . . torque motors generator motors electric power conversion . . solar cells . electric motors USE electric generators ... vertical junction solar cells . . asynchronous motors . solar dynamic power systems . . induction motors electric power plants aircraft power supplies . . micromotors electric power plants arc generators . . piezoelectric motors fuel cell power plants armatures . nuclear power plants . . stepping motors . . Enrico Fermi atomic power plant auxiliary power sources synchronous motors

. torque motors

brushes (electrical contacts)

amplidynes

armatures

brushes

circuits commutators

brushes

 $\infty$  conversion

∞ converters

closed cycles

cogeneration

brushes (electrical contacts)

combined cycle power generation

Hallam Nuclear Power Facility

. solar thermal electric power plants

combined cycle power generation

ML-1 nuclear power plant

cogeneration

∞ electric power

electrical engineering

#### electric power supplies

 $\infty$  facilities flue gases hydroelectric power stations integrated energy systems Modular Integrated Utility System ∞ power plants solar sea power plants

### electric power supplies

### GS electric power supplies

- aircraft power supplies
- solar dynamic power systems
- . space station power supplies
- spacecraft power supplies

auxiliary power sources compulsators induction motors

line current

payload delivery (STS)

∞ power supplies

#### electric power transmission

GS transmission

#### electric power transmission

circuit protection circuits

 $\infty$  conduction

∞ electric equipment electrical engineering

electrification

hydroelectric power stations

poles (supports) power lines ∞ power transmission

superconducting power transmission transmission circuits

transmission lines transmission loss

underground transmission lines

#### electric propulsion

(EXCLUDES PROPULSION USING ELECTRIC MOTORS AS PRIME MOVERS)

A general term encompassing all the various types of propulsion in which the propellant consists of charged electrical particles which are accelerated by electrical or magnetic fields, or both; for example, electrostatic propulsion, electromagnetic propulsion, and electrothermal propulsion.

GS propulsion

#### . electric propulsion

. . electromagnetic propulsion

. . . magnetic sails

. . electrostatic propulsion

. ion propulsion

. . laser propulsion

. . plasma propulsion

. solar electric propulsion

RT arc jet engines

∞ electric power

Hall thrusters

low thrust propulsion

marine propulsion nuclear electric propulsion

plasma power sources

RIFT (reactor in flight test)

SERT 1 spacecraft

SERT 2 spacecraft

space station propulsion

spacecraft propulsion two stage plasma engines

underwater propulsion

#### electric pulses

UF electric impulses

GS pulses

∞ signals

### electric pulses

electromagnetic missiles electromagnetic pulses pulse amplitude pulse duration pulse generators pulse modulation pulse rate

system generated electromagnetic

#### electric reactors

GS electric reactors

saturable reactors capacitors

circuit protection

∞ reactors

resistors transformers

#### electric relays

SN (EXCLUDES COMMUNICATION SYSTEM

REPEATERS) GS switches

electric relays

armatures

circuit breakers disconnect devices

interruption

∞ relav

selectors

solenoid valves

solenoids

switching circuits

time lag

# electric rocket engines

GS engines

. rocket engines

#### . . electric rocket engines

... electrostatic engines

.... ion engines

cesium engines

. . . . . Hall thrusters

mercury ion engines

. RIT engines

. . . electrothermal engines

. . . . arc jet engines . . . . pulsed jet engines

. . . . resistojet engines

... plasma engines

... magnetoplasmadynamic thrusters

... pulsed inductive thrusters

. . . . pulsed plasma thrusters

. . . . two stage plasma engines

... VASIMR (propulsion system)

magnetic nozzles

microrocket engines

restartable rocket engines

SERT 1 spacecraft

SERT 2 spacecraft

space electric rocket tests

sustainer rocket engines

Vernier engines

#### electric sparks

UF spark discharges

GS electric current

. electric discharges

. electric sparks

sparks

electric sparks

flashover

gas discharges

ionization

lightning

spark chambers

spark gaps

spark ignition

spark plugs

static electricity

# electric stimuli

RT ∞ stimuli

### electric switches

GS switches

. electric switches

. . cryotrons stepping switches

. . thermostats

. vacuum arc switches contactors

cryostats current regulators

dropouts

electronic control

pressure switches solenoid valves switching circuits voltage regulators

#### electric terminals

RT electric connectors network analysis ∞ terminals

#### electric welding

GS welding

. fusion welding . . electric welding

. . . arc welding

.... gas tungsten arc welding

. . . . plasma arc welding

... electroslag welding

flash welding

RT electron beam welding

pressure welding spot welds

welding machines

# electric wire

UF electric wiring

GS conductors

. electric conductors . electric wire

wire

electric wire

bus conductors circuits

communication cables

electrical insulation

exploding wires

flat conductors power lines

transmission lines wire bridge circuits

electric wiring USE electric wire

wiring

electrical breakdown USE electrical faults

electrical conductivity

# USE electrical resistivity

electrical conductivity meters

measuring instruments . conductivity meters

. electrical conductivity meters ohmmeters

electrical energy

USE electric power

electrical engineering

DEF Branch of engineering related to the design, development, and operation of electrical

devices and systems.

RT electric generators

electric power plants electric power transmission

∞ electronics ∞ engineering

∞ power transmission

systems engineering transmission lines turbogenerators

# electrical faults

electrical breakdown voltage breakdown

electrical faults GS . short circuits

RT ∞ breakdown circuit protection

electric arcs failure

∞ faults flashover

sneak circuit analysis

spark gaps

# electrical grounding

RT circuit protection circuits

noise reduction transformers

#### electrical impedance

admittance immittance

electrical properties

#### electrical impedance

- . . electrical resistance
- . . . contact resistance
- . . . Hall resistance
- . . . skin resistance
- . . . transconductance
- . reactance

#### impedance

#### . electrical 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

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) voltage measurement electrical measurement

UF

#### GS

. coulometry

. polarography RT 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

DEF 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 GS

electrical resistivity

. . ionospheric conductivity

. . magnetoresistivity

. . photoconductivity

. . plasma conductivity

. . superconductivity . . Kondo effect

transport properties

# electrical resistivity

. . ionospheric conductivity

. . magnetoresistivity . . photoconductivity

. . plasma conductivity

. . superconductivity

. . Kondo effect

RT air conductivity

atmospheric conductivity carrier mobility

∞ conductivity

electric conductors electric current electromigration

Hall resistance high temperature superconductors

low conductivity open circuit voltage plasma currents

electrically suspended gyroscopes USE electrostatic gyroscopes

electricity GS electricity

∞ resistance

. 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 ∞ 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

conducting polymers electromechanical devices electrorheological fluids

electrostriction

microelectromechanical systems

∞ polymers robot arms

#### electroanesthesia

GS anesthesia

. electroanesthesia

electronarcosis

electrocardiograms

USE electrocardiography

#### electrocardiography

electrocardiograms GS bioengineering . biometrics

. . cardiography

electrocardiography

ballistocardiography

body measurement (biology)

electrophysiology heart diseases medical electronics muscles

phonocardiography vectorcardiography

#### electrocatalysts

RT

fuel cell catalysts GS catalysts

electrocatalysts fuel cells

#### electrochemical capacitors

(added September 2003)

Devices that store energy in the electric field of an electrochemical double-layer.

double-layer capacitors supercapacitors ultracapacitors

GS capacitors

#### electrochemical capacitors

electric energy storage

#### electrochemical cells

Electrochemical systems consisting of an anode and a cathode in metallic contact and immersed in an electrolyte. (The anode and cathode may be different metals or dissimilar areas on the same metal surface).

#### GS electrochemical cells

. electric batteries

. . nickel iron batteries

. . primary batteries

. alkaline batteries

... dry cells

. . . . magnesium cells

. . . nickel zinc batteries

... metal air batteries . . . . zinc-oxygen batteries

. . . sodium sulfur batteries

... thermal batteries

. . Redox cells

. . storage batteries . lead acid batteries

... nickel cadmium batteries

... nickel hydrogen batteries
... nickel zinc batteries

... silver cadmium batteries

... silver hydrogen batteries

. . . silver zinc batteries

zinc-bromide batteries zinc-chlorine batteries

. . lithium batteries

. . wet cells

. lithium sulfur batteries

. fuel cells

. . biochemical fuel cells

. . hydrogen oxygen fuel cells

. . molten carbonate fuel cells . . phosphoric acid fuel cells

regenerative fuel cells

. . solid oxide fuel cells

RT ∞ cells

∞ electric cells

electrochemistry photoelectric cells

photoelectrochemical devices

photovoltaic cells

#### electrochemical corrosion

corrosion GS

electrochemical corrosion

RT electrodissolution electrolysis

metal-water reactions

# electrochemical machining

electrolytic grinding GS

machining

. chemical machining

. electrochemical machining

RT electropolishing

### electrochemical oxidation

GS chemical reactions

. oxidation

. . electrochemical oxidation

### electrochemical synthesis

(added January 2000)

A chemical synthesis reaction that is

induced by an electric current. UF electrosynthesis

synthesis (chemistry) GS

electrochemical synthesis

electrochemistry RT electrolysis polymerization

#### electrochemistry

The branch of science and technology which deals with transformations between chemical and electrical energy.

### GS electrochemistry

. electrolysis

. . coulometry

photoelectrochemistry

RT ∞ chemistry corrosion

coulometers

electrochemical cells

electrochemical synthesis

electrochromism

electrodeposition

electrodes

electrodissolution electrolytes

electrolytic cells

electrophysics

fuel cells

glass electrodes

nonaqueous electrolytes oxidation-reduction reactions

Redox cells

### electrochromism

DEF A phenomenon whereby a select number of solid materials will change color when an electric field is applied.

RT chromophores

display devices electrochemistry

electro-optics

thin films

electroconductivity

USE electrical resistivity

#### electrocutaneous communication

communicating
. electrocutaneous communication

perception sensory perception

touch

electrode dark current (added October 1997)

RT ∞ barriers

∞ films

thin films

### electrode materials

anodes

cell anodes

mischmetal

photoelectric materials

polypyrroles tube anodes

electric current

. electrodeless discharges

RT ∞ discharge

glow discharges

lightning

radio frequency discharge ring discharge

Townsend discharge

electrodeposition

electrochemistry

electrolytes

electrolytic cells

electrowinning

plating

powder metallurgy reduction (chemistry)

#### electrodermal response

DEF Terminals at which electricity passes from one medium into another. The positive

color

USE dark current

# electrode film barriers

electrodes

polarization (charge separation)

RT anions

anodic coatings

cathodes cathodic coatings

cell cathodes electrodes

photocathodes photoelectric cells

photoelectrochemical devices

electrodeless discharges

. electric discharges

gas discharges

Penning discharge

toroidal discharge

GS deposition electrodeposition

. electroplating cathodic coatings

cell cathodes coulometers

electroforming electroless deposition electrolysis

electrophoresis

metal matrix composites metal powder

USE galvanic skin response

electrodes are called the anodes; the negative electrodes are called the cathodes. In semiconductor devices, elements that perform one or more of the functions of emitting or collecting electrons or holes, or of controlling their move-ments by electric fields. In electron tubes, con-ducting elements that perform one or more of the functions of emitting, collecting, or control-

electrolytes ling by electromagnetic fields, the movements of electrophysics medical equipment electrons or ions. GS electrodes electroepitaxy electroless deposition Crystal growth process achieved by DEF Controlled autocatalytic . anodes reduction method of depositing coatings. . . cell anodes passing an electric current through the substrate . . shell anodes solution. GS deposition . . tube anodes GS growth electroless deposition . cathodes . crystal growth RT coatings . . cell cathodes . . epitaxy electrodeposition . . hollow cathodes electroepitaxy electroforming . . tube cathodes crystals metal coatings hydrothermal crystal growth plating ... cold cathodes . . . hot cathodes liquid phases vacuum deposition traveling solvent method . photocathodes vapor deposition . . . thermionic cathodes electroerosion electroluminescence . tunnel cathodes Emission of light caused by an appli-. diffusion electrodes USE spark machining . dynodes cation of electric fields to solids or gases. In gas electroexplosive devices electroluminescence, light is emitted when the . glass electrodes USE initiators (explosives) kinetic energy of electron or ions accelerated in . implanted electrodes (biology) . ion selective electrodes an electric field is transferred to the atoms or . plasma electrodes . solid electrodes electroforming molecules of the gas in which the discharge GS forming techniques takes place. Used for electroluminescent lamps. electroforming electroluminescent lamps . tube grids RT deposition RT cold cathode tubes GS emission electrodeposition . light emission electric batteries electroless deposition . . Iuminescence electrochemistry electroplating . . electroluminescence electrode film barriers spark machining RT electro-optics electrode materials light emitting diodes electrolysis electrogenerators light sources electroplating USE electric generators porous silicon electrorefining electrowinning electrohydraulic control electroluminescent lamps graphite electric control electroluminescence photomultiplier tubes hydraulic control **luminaires** phototubes . Tafel law electrohydraulic forming electrolysis transconductance forming techniques The production of chemical changes by the passage of current through an electrolyte. . cold working electrodialysis GS electrochemistry . . electrohydraulic forming dialvsis GS explosive forming . electrolysis . electrodialysis colloids . coulometry metal working corrosion coulometers RT hydrometallurgy electrohydrodynamics ∞ separation electrodynamics cracking (chemical engineering) . electrohydrodynamics current density mechanics (physics) decomposition electrochemical corrosion electrodissolution . fluid mechanics dissociation . . fluid dynamics electrochemical corrosion electrochemical synthesis . . . hydrodynamics electrochemistry electrodeposition . electrohydrodynamics electrodes electrolysis . . hydromechanics electrodissolution . . . hydrodynamics . . . electrohydrodynamics electrolytes electrodynamics DEF The science dealing with the forces and energy transformations of electric currents and the magnetic fields associated with them.

GS electrodynamics electrolytic cells electric corona electroplating electrokinetics hydrogen production electron gas ionic mobility electron mobility metathesis . electrohydrodynamics ion distribution passivity . electromechanics ionic mobility photolysis quantum electrodynamics magnetohydrodynamics reduction (chemistry) RT Born-Infeld theory Tafel law electroiets water splitting electric fields DEF Laterally limited, relatively intense electromagnetic interactions electric currents located in the ionosphere. electrolyte metabolism electromechanical devices electric current metabolism line current . ionospheric currents . electrolyte metabolism Maxwell equation .. electrojets aerospace medicine ponderomotive forces ... auroral electrojets aldosterone traveling charge . equatorial electrojet blood plasma electricity body fluids electrodynamometers . atmospheric electricity physiological effects . . ionospheric currents potassium USE dynamometers ... electrojets sodium . . . . auroral electrojets weightlessness electroencephalogram . equatorial electrojet

Birkeland currents

Earth ionosphere

ionospheric conductivity

geomagnetism

ionospheric drift

electrokinetics

electromechanics

electrohydrodynamics

electromagnetic fields

ring currents

kinetics

electrokinetics

GS

USE electroencephalography

electroencephalogram

EEG (electroencephalograms)

. electroencephalography

body measurement (biology)

electroencephalography

bioengineering

electrophysiology

medical electronics

. biometrics

arousal

brain

GS

287

electrolytes

GS conductors

. electrolytes

. . anolytes

. . jumpers

. . catholytes

. . ion exchange membrane

. molten salt electrolytes . nonaqueous electrolytes

. solid electrolytes

conducting fluids

electrolytes

#### electrolytic cells

electric batteries electrochemistry electrodeposition electrolysis electrolytic cells electroplating electrorefining electrowinning fuel cells ions nonelectrolytes 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. ∞ diaphragms diffusion electrodes

UF galvanic cells

RT ∞ cells

diaphragms (mechanics)

electric batteries ∞ electric cells

electrochemistry electrodeposition

electrolysis electrolytes

electroplating electrorefining

electrowinning ionic mobility

lead acid batteries nonaqueous electrolytes phosphoric acid fuel cells

electrolytic grinding
USE electrochemical machining

### electrolytic polarization

polarization (charge separation) . electrolytic polarization GS

depolarization magnesium cells

electrolytic polishing USE electropolishing

#### electromagnetic absorption

ionospheric absorption light absorption magnetic absorption optical absorption energy absorption

. radiation absorption

# electromagnetic absorption

. . . auroral absorption

. . . gamma ray absorption

. . . infrared absorption

. microwave absorption

. . . multiphoton absorption

. photoabsorption

... polar cap absorption

. . . ultraviolet absorption

. . x ray absorption RT absorbers (materials)

absorptance

 $\infty$  absorption

absorption spectra

absorptivity activation

atmospheric attenuation

attenuation Beer law

Bouguer law

Chandrasekhar equation electromagnetic properties

excitation fading

fluorescence

gamma ray absorptiometry

irradiation

laser induced fluorescence

light scattering molecular absorption Mossbauer effect nuclear physics opacity optical properties optical reflection

pair production perfectly matched layers photodecomposition photodissociation

photon absorptiometry photoproduction radar absorbers

radar attenuation radiation shielding radio attenuation

reflection

resonant frequencies

signal fading solar energy absorbers Townsend avalanche

transmission

transmittance transparence

wave attenuation wave propagation

# electromagnetic acceleration

DEF The use of perpendicular components of electric and magnetic fields to accelerate a current carrier.

 $RT \, \infty \, acceleration$ 

electromagnetic interactions magnetic fields mass drivers particle acceleration plasma accelerators

#### electromagnetic compatibility

compatibility

electromagnetic compatibility

atmospherics crosstalk

electronic countermeasures

electronic warfare ∞ interference

noise spectra

radio frequency interference

electromagnetic control

USE electromagnets remote control

#### electromagnetic coupling

(added September 1988)

GS coupling

# electromagnetic coupling

. . microwave coupling

. optical coupling

electromagnetic interactions laser plasma interactions

magnetosphere-ionosphere coupling plasma-electromagnetic interaction

electromagnetic deduction

magnetic induction

#### electromagnetic environment experiment

DEF Shuttleborne radio frequency experiment

. Space Shuttle payloads

. electromagnetic environment experiment

#### electromagnetic fields

# GS electromagnetic fields

. far fields

. near fields

. system generated electromagnetic

pulses

Abrikosov theory biomagnetism blackout (propagation)

electrokinetics electromagnetism

electromechanics external surface currents

field mode theory

field strength field theory (physics) grand unified theory magnetic field configurations magnetic field inversions magnetic fields quantum electrodynamics reciprocity theorem solar magnetic field Sommerfeld approximation squeezed states (quantum theory) stellar magnetic fields unified field theory

#### electromagnetic hammers

whistlers Yang-Mills fields

tools

. hammers

. electromagnetic hammers

forming techniques magnetic coils magnetic forming metal working

#### electromagnetic interactions

#### electromagnetic interactions

. photoproduction

. plasma-electromagnetic interaction

laser plasma interactions

biomagnetism

electrodynamics

electromagnetic acceleration

electromagnetic coupling

electrostatics

electroweak interactions (field theory)

electroweak model

elementary particle interactions Feynman diagrams

grand unified theory

∞ interactions meson-meson interactions photonuclear reactions

plasma resonance quantum mechanics unified field theory

wave interaction wave-particle interactions

#### electromagnetic interference

# GS electromagnetic interference

. crosstalk

. . ionospheric cross modulation

. jamming

. radio frequency interference
. blackout (propagation)
. . polar radio blackout

. . chirp

. . . chirp signals

. . electromagnetic noise

. . . atmospherics

.... ionospherics

. . . . . dawn chorus

. . . . . hiss .... sudden enhancement of atmospherics

... whistlers

. . . cosmic noise ... ionospheric noise

. . . . whistlers

. . . shot noise

... white noise . thermal noise

. . cochannel interference

. ionospheric cross modulation

RT ∞ disturbances

electronic countermeasures

electronic warfare environments

feedback ground effect (communications)

∞ interference interference immunity noise reduction

SCATHA satellite signal to noise ratios

system generated electromagnetic Faraday effect pulse modulation inductance pulse radar . proximity effect (electricity) radar transmission electromagnetic measurement Kerr magnetooptical effect (MEASUREMENT OF ELECTROMAGNETIC PROPERTIES, QUANTITIES OR CONDITIONS) . magnetoresistivity electromagnetic pumps . optical properties (ENCOMPASSES DEVICES FOR MATERIALS HANDLING ONLY-EXCLUDES OPTICAL AND PARTICLE ENERGIZING DEVICES) . . absorptance GS electromagnetic measurement . . absorptivity electromagnetic noise measurement . . birefringence RT Barkhausen effect . Kerr electrooptical effect GS pumps Earth terminal measurement system electromagnetic pumps . . brightness electrical measurement sky brightness RT fuel pumps electromagnetism . . brightness distribution infrared detectors magnetic measurement . . color electromagnetic radiation . . . iridescence magnetic transducers DEF Energy propagated through space or stellar color ∞ measurement through material media in the form of an advanc-. . . water color signal measurement ing disturbance in electric and magnetic fields dichroism existing in space or in media. The term radiation, . . luminosity electromagnetic missiles alone, is used commonly for this type of energy, . stellar luminosity (added January 1992) although it actually has a broader meaning. Used for electromagnetic waves and wave ra-. . opacity electric pulses . . optical bistability external surface currents diation. missiles optical reflection electromagnetic waves wave radiation UF phosphorescence picosecond pulses pulse communication . . photoconductivity electromagnetic radiation pulse modulation photoviscoelasticity . bremsstrahlung . Cerenkov radiation wave attenuation . . radiance . . reflectance wave degradation . coherent electromagnetic radiation bidirectional reflectance wave propagation . . coherent light spectral reflectance . . laser beams electromagnetic noise . . refractivity . diffraction radiation radiation noise . . . photorefractivity . electromagnetic pulses radio frequency noise stigmatism . . system generated electromagnetic GS electromagnetic interference . . translucence pulses . radio frequency interference . . transmissivity . electromagnetic surface waves ... electromagnetic noise . . transmittance . gamma ray beams ... atmospherics . . transparence . gamma rays . . . . ionospherics . . turbidity . . gamma ray bursts . . . . . dawn chorus . photoelasticity H waves . . . . . hiss . photoviscoelasticity . infrared radiation ... sudden enhancement of carrier mobility . . far infrared radiation atmospherics clarity . near infrared radiation ... whistlers electrical properties . kilometric waves electromagnetic absorption ... cosmic noise . light (visible radiation) ... ionospheric noise gamma ray absorption . . coherent light .... whistlers gyrotropism . . gegenschein ... shot noise magnetic properties . . polarized light ... white noise ∞ physical properties . . sky radiation . . . thermal noise polarization (waves) . . . airglow background noise ∞ properties . . . . geocoronal emissions background radiation blackout (propagation) . nightglow electromagnetic propulsion . . . . twilight glow channel noise propulsion dayglow chirp signals electric propulsion
 electromagnetic propulsion . . . elves extraterrestrial radiation . . . sprites (atmospheric physics) ground effect (communications) . magnetic sails . . sunlight microwaves . low thrust propulsion
. . electromagnetic propulsion
. . magnetic sails . zodiacal light millimeter waves . light beams ∞ noise . . laser beams . modulated continuous radiation noise generators spacecraft propulsion noise intensity electromagnetic propulsion . monochromatic radiation noise reduction . magnetic sails . nonequilibrium radiation noise spectra electrostatic propulsion . nonthermal radiation noise storms ion propulsion . . cyclotron radiation noise temperature magnetoplasmadynamic thrusters ... ion cyclotron radiation radar receivers mass drivers . . synchrotron radiation ∞ radiation photonic propulsion . photon beams radio receivers plasma propulsion . planetary radiation radio spectra pulsed inductive thrusters plasmons radio waves pulsed plasma thrusters . polarized electromagnetic radiation random noise . . polarized light signal to noise ratios electromagnetic pulses . . synchrotron radiation solar radio emission EMP (electromagnetism) . radio waves squelch circuits electromagnetic radiation . . decametric waves submillimeter waves . electromagnetic pulses . . extraterrestrial radio waves . . system generated electromagnetic . . . galactic radio waves electromagnetic noise measurement pulses .... North Polar Spur (astronomy) electromagnetic measurement pulsed radiation . . . radio bursts . electromagnetic noise . electromagnetic pulses .... solar radio bursts measurement . . system generated electromagnetic . . . . . type 2 bursts cosmic noise pulses . . . . type 3 bursts ∞ measurement . . . . . type 4 bursts pulses thermal noise . . . . type 5 bursts . electromagnetic pulses white noise . system generated electromagnetic . . . solar radio emission

pulses

external surface currents

electric pulses

picosecond pulses

pulse communication

electromagnetic propagation

electromagnetic properties

electromagnetic wave transmission

electromagnetic properties

. . . . solar radio bursts

. . . . . type 2 bursts

. . . . type 3 bursts

. . . . . type 5 bursts

# electromagnetic scattering

	cosmic microwave background	radar	H gamma line
	radiation	∞ radiation	K lines
	long wave radiation	radiation chemistry	Lyman spectra
	•	radiation distribution	
	radio emission		Paschen series
	CN emission	radiation hazards	Rydberg series
	hydroxyl emission	radiation laws	telluric lines
		radiation pressure	radio spectra
	radio bursts	radiation sources	microwave spectra
	solar radio bursts	radiation sources	
	type 2 bursts		Raman spectra
		∞ rays	stellar spectra
	type 3 bursts	reflected waves	solar spectra
	type 4 bursts	reflection	UBV spectra
	type 5 bursts	refracted waves	ultraviolet spectra
	solar radio emission		
	solar radio bursts	Ronchi test	vibrational spectra
		scattering	visible spectrum
	type 2 bursts	sine waves	x ray spectra
	type 3 bursts	solar radiation	RT absorption spectra
	type 4 bursts		
	type 5 bursts	solitary waves	astronomical spectroscopy
		spectral emission	electronic warfare
	short wave radiation	spectral energy distribution	emission spectra
	microwaves	spherical waves	energy spectra
	centimeter waves	·	
	cosmic microwave background	spontaneous emission	light (visible radiation)
	radiation	Stefan-Boltzmann law	molecular spectra
		stellar radiation	noise spectra
	decimeter waves	stratosphere radiation	spectral correlation
	microwave emission	telecommunication	spectral reconnaissance
	millimeter waves		spectral reconnaissance
	submillimeter waves	Thomson scattering	the form of the second second second
		transmission	electromagnetic surface waves
	sky waves	transverse waves	GS electromagnetic radiation
	whistlers	traveling waves	. electromagnetic surface wave
	. Sommerfeld waves		surface waves
	. terrestrial radiation	ultraviolet astronomy	
		VLF emission recorders	. electromagnetic surface wave
	. thermal radiation	wave amplification	RT dielectrics
	black body radiation	wave dispersion	propagation modes
	phonon beams	•	radio waves
	. tropospheric radiation	wave generation	
		∞ waves	∞ surfaces
	. ultraviolet radiation	whispering gallery modes	waveguides
	extreme ultraviolet radiation	white holes (astronomy)	∞ waves
	far ultraviolet radiation	Willia Holos (detrollority)	
	Lyman alpha radiation	alastromagnatia rocket angines	electromagnetic wave filters
	Lyman beta radiation	electromagnetic rocket engines	
		(added April 2001)	GS electromagnetic wave filters
	near ultraviolet radiation	USE plasma engines	. bandpass filters
	ultraviolet emission	, ,	crystal filters
	. x rays	electromagnetic scattering	tracking filters
	cosmic x rays		
		GS scattering	. electric filters
	solar x-rays	. wave scattering	bandstop filters
	. photosynthetically active radiation	electromagnetic scattering	crystal filters
RT	aerospace environments	ionospheric F-scatter propagation	digital filters
	antennas		FIR filters
		light scattering	
	atmospheric radiation	halos	IIR filters
	atmospheric refraction	microwave scattering	microwave filters
	backward waves	Mie scattering	radar filters
	beams (radiation)		radio filters
		Rayleigh scattering	
	coherent radiation	Raman spectra	tracking filters
	continuous radiation	Thomson scattering	waveguide filters
	corpuscular radiation	x ray scattering	. matched filters
	cosmic rays		. optical filters
	cylindrical waves	atmospheric scattering	birefringent filters
	diffraction	finite difference time domain method	infrared filters
	Doppler effect	magnetic dispersion	ultraviolet filters
	duochromators	optical coatings	RT absorbers (materials)
	electroacoustic waves		
		perfectly matched layers	adaptive filters
	electromagnetism	reciprocity theorem	attenuators
	extraterrestrial radiation		correlation detection
	far fields	electromagnetic shielding	∞ filters
	flux (rate)	GS shielding	high pass filters
	flux density	. electromagnetic shielding	linear filters
	galactic radiation	radio frequency shielding	low pass filters
	gamma ray absorption	RT magnetic shielding	nonlinear filters
	gauge invariance	radiation shielding	screen effect
		radiation shielding	Scieen ellect
	glare		
	harmonic radiation	electromagnetic spectra	electromagnetic wave transmission
	incident radiation	DEF Spectra of known electromagnetic ra-	UF electromagnetic propagation
	incoherent scattering	diations, extending from the shortest cosmic	GS transmission
	interstellar radiation	rays, through gamma rays, x rays, ultraviolet	electromagnetic wave
	ionizing radiation	radiation, visible radiation, and including micro-	transmission
	Kerr electrooptical effect	wave and all other wavelengths of radio energy.	light transmission
	light emission	GS spectra	light scattering
	magneto-optics	•	halos
		. radiation spectra	
	near fields	electromagnetic spectra	microwave attenuation
	nonlinear optics	gamma ray spectra	radar transmission
	nuclear radiation	infrared spectra	radio transmission
	phase velocity	line spectra	double sideband transmission
	photons	Balmer series	ionospheric propagation
	Plancks constant	D lines	ionospheric F-scatter
	polarized radiation	electronic spectra	propagation
	Poynting theorem	Fraunhofer lines	microwave transmission
	∞ propagation	H lines	multipath transmission
	propagation velocity	H alpha line	short wave radio transmission
		H beta line	single sideband transmission
	pulsed radiation	n bela line	Sincile Sittetianiti transmissioni

... spread spectrum transmission ... transequatorial propagation ... transhorizon radio 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 whispering gallery modes

electromagnetic waves

electromagnetic radiation

electromagnetics

USE electromagnetism

#### electromagnetism

Magnetism produced by an electric current. The science dealing with the physical relations between electricity and magnetism. Used for electromagnetics.

electromagnetics electromagnetism

. magnetostatics Barkhausen effect Biot-Savart law

computational electromagnetics

electric fields electricity

electromagnetic fields electromagnetic measurement electromagnetic radiation electromagnets

electrophysics grand unified theory magnet coils magnetic coils

magnetic field inversions

magnetic fields magnetic properties magnetoresistivity unified field theory

#### electromagnets

UF electromagnetic control

GS magnets

### . electromagnets

. . high field magnets

. superconducting magnets

RT electromagnetism field coils

magnet coils racetracks (particle accelerators) solenoids

#### electromechanical devices

#### electromechanical devices

. microelectromechanical systems

. . microoptoelectromechanical

systems

. electric motors

. piezoelectric actuators

. asynchronous motors

. . induction motors

. . micromotors

. . piezoelectric motors

. . stepping motors
. . synchronous motors

torque motors

RT ∞ electric equipment electroactive polymers electrodynamics electromechanics

∞ equipment

homopolar generators

### electromechanics

GS electrodynamics

#### electromechanics circuits

electric fields electrokinetics electromagnetic fields electromechanical devices electrostatics magnetic field inversions

magnetic fields Maxwell equation mechanics (physics)

#### electrometers

Instruments for measuring differences of electric potential.

measuring instruments GS

#### . electrometers

electric charge electrical measurement electron counters galvanometers

potentiometers (instruments)

voltmeters wattmeters

#### electromigration

electrical resistivity RT electron mobility hole mobility ionic mobility polarization (charge separation) thermocapillary migration thermomigration

#### electromotive forces

DEF Forces capable of maintaining a potential difference, and thus a current, within a circuit. They can be established by chemical action or by mechanical work.

#### electromotive forces GS

. ponderomotive forces electric batteries electric generators electric potential RT Ohms law open circuit voltage

electromyograms

USE electromyography

electromyographs
USE electromyography

#### electromyography

DEF The study of the response of a muscle to an electric stimulation. Used for electromyograms and electromyographs.

electromyograms electromyographs bioengineering GS

. biometrics

. electromyography

electrophysiology medical electronics myoelectricity

#### electron acceleration

The acceleration of electrons by action DEF of solar cosmic rays.

GS rates (per time)

acceleration (physics)

#### electron acceleration

RT ∞ acceleration cosmic rays electrons

extraterrestrial radiation particle beams

### electron accelerators

GS particle accelerators

solar cosmic rays

electron accelerators

. betatrons RT ∞ accelerators

linear accelerators synchrotrons

Van de Graaff accelerators

### electron affinity

GS affinity

#### . electron affinity

anions molecular ions negative electron affinity semiconductors (materials)

#### electron attachment

electron attachment

. nucleophiles RT ∞ attachment gas ionization ionization

#### electron avalanche

DEF 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.

GS avalanches

#### electron avalanche

**CATT** devices channel multipliers free electrons gas discharges Townsend avalanche

#### electron beam welding

welding

. fusion welding

. . electron beam welding

arc welding electric welding spiking

#### electron beams

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 melting points.
GS beams (radiation)

. particle beams

# . . electron beams

. relativistic electron beams particles

. corpuscular radiation . . electron radiation

... electron beams
... relativistic electron beams
beam injection

beam neutralization beam plasma amplifiers beta particles

> diffraction radiation electron cyclotron heating

ionizing radiation magnetic lenses monoscopes nanofabrication plasma jets scalloping

Brillouin flow

scanning electron microscopy transmission electron microscopy

### electron bombardment

 $RT \infty bombardment$ deposition particle beams plasma jets

relativistic electron beams sputtering

# electron bunching

GS bunching

. electron bunching catchers

convection currents klystrons

traveling wave tubes velocity modulation

#### electron capture

GS nuclear reactions

. nuclear interactions

. . nuclear capture ... electron capture

. . spin-orbit interactions

... electron capture electrostatic probes space density particle interactions energy . elementary particle interactions electron density profiles forbidden bands .. nuclear capture GS density (number/volume) Hartree-Fock-Slater method ... electron capture . particle density (concentration) interfacial energy . nuclear interactions .. electron density (concentration) ionospheric temperature . . nuclear capture ... electron density profiles kinetic energy ... electron capture . . electron distribution noise temperature spin-orbit interactions . electron density profiles plasmas (physics) distribution (property) ... electron capture proton energy . electron distribution space temperature . . electron density profiles . spin-orbit interactions surface energy electron capture gradients temperature electron density profiles capture effect many electron effects angular distribution electron flux atmospheric electricity USE electrons atmospheric ionization flux (rate) electron clouds  $RT \, \infty \, clouds$ electron detectors orbitrons electron flux density USE electron counters (LIMITED TO ELECTRON EMISSION OR DETECTION RATE PER UNIT AREA) electron intensity space charge electron diffraction electron collisions rates (per time) . flux density DEF The phenomenon, or the technique of GS USE electron scattering producing diffraction patterns through the inci-. . radiant flux density dence of electrons as a function of kinetic en-... particle flux density electron compounds diffraction ... electron flux density USE intermetallics electron diffraction RT irradiance RT Bragg angle radiancy electron counters diffraction radiation solar flux density electron detectors x ray diffraction GS measuring instruments electron gas . counters electron diffusion RT cosmic gases . . radiation counters diffusion electrohydrodynamics . . . electron counters . particle diffusion free electrons . radiation measuring instruments . electron diffusion ionized gases . . radiation counters ambipolar diffusion . . electron counters plasmons diffusion length quantum Hall effect RT electrometers diffusion waves rarefied gases ionization chambers gaseous self-diffusion screen effect ionic diffusion superconductors (materials) electron cyclotron heating plasma diffusion DEF A type of radio frequency plasma heatthermal diffusion electron guns ing in which high-power microwave energy is DEF Electrode structures which produce introduced into the plasma region. electron distribution and may control, focus, deflect, and converge GS heating GS density (number/volume) one or more electron beams. . particle density (concentration)
. electron distribution . plasma heating RT cathode ray tubes . electron cyclotron heating crossed field guns . electron density profiles electron beams distribution (property)
. electron distribution electron cyclotron heating electron cyclotron resonance flying spot scanners electron guns . electron density profiles charge distribution ∞ guns klystrons magnetic lenses magnetic pumping particle accelerators current distribution plasma guns density functional theory electron cyclotron resonance tube anodes Thomas-Fermi model (added June 1997) tube cathodes vertical distribution GS resonance tube grids . cyclotron resonance electron emission electron cyclotron resonance electron holes GS emission cyclotron resonance devices USE holes (electron deficiencies) . particle emission electron cyclotron heating . . electron emission plasma heating . . . field emission electron impact plasma resonance photoelectric emission impact secondary emission electron impact electron decay rate cathodes RT ion impact GS rates (per time) electric discharges point impact . decay rates emitters proton impact . electron decay rate negative electron affinity muons pair production electron intensity secondary cosmic rays photoelectric materials USE electron flux density photoelectron spectroscopy electron density (concentration) photoelectrons electron interactions GS density (number/volume) photoionization USE electron scattering . particle density (concentration) radio frequency discharge .. electron density (concentration) self sustained emission electron ionization . . . carrier density (solid state) stimulated emission USE ionization . . . electron density profiles thermal emission ... ionospheric electron density thermionic emission electron irradiation . . magnetospheric electron density thermionics atmospheric composition GS irradiation work functions

electron energy
UF electron temperature

GS

RT

electronic levels

. electron states

electronic structure

activation energy

particle energy
. electron energy

electron irradiation

auroral irradiation

secondary emission

. . electron mass

ion irradiation

electron mass

mass . particle mass

GS

# 292

atmospheric density

atom concentration

free electrons

plasma density

radiation belts

plasma frequencies

density functional theory

ion density (concentration)

semiconductors (materials)

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 phase contrast

#### electron mobility

GS electrical properties

- . 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 single electron transistors

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

oscillations GS

electron oscillations oscillator strengths plasma oscillations

transient oscillations

#### electron paramagnetic resonance

electron spin resonance

resonance

. magnetic resonance

. . paramagnetic resonance

... electron paramagnetic resonance

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 thermal plasmas

#### electron precipitation

particle precipitation

electron precipitation

particles

. corpuscular radiation

. electron precipitation

auroras

∞ precipitation proton precipitation

radiation belts secondary cosmic rays

trapped particles

#### electron pressure

pressure GS

. radiation pressure

. . electron pressure

#### electron probes

DEF 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

RT energy transfer excimer lasers gas lasers lasers nuclear pumping

nuclear radiation optical pumping population inversion ∞ pumping stimulated emission stimulated emission devices

#### electron radiation

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

. corpuscular radiation

... electron radiation

... beta particles

. . . electron beams

. . . relativistic electron beams

RT bremsstrahlung nuclear radiation plasma radiation proton irradiation ∞ radiation

electron recombination

recombination reactions

radiation effects

electron recombination

. radiative recombination ion recombination

electron ring accelerators USE storage rings (particle

neutral particles

# 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 . electron spectroscopy

absorption spectra emission spectra infrared spectroscopy molecular spectroscopy optical emission spectroscopy

x ray absorption ... image orthicons single event upsets . . vidicons electron spin ... return beam vidicons electronic aircraft GS spin . thermicons DEF Designation for tactical electronic war-. particle spin . cold cathode tubes fare aircraft. . electron spin . . phototubes RT ∞ aircraft angular momentum . . . photomultiplier tubes automatic control nuclear spin . . . . frequency modulation electronic countermeasures spin dynamics photomultipliers . gas discharge tubes electronic amplifiers electron spin resonance USE amplifiers . . ignitrons USE electron paramagnetic resonance . thyratrons electronic bulletin boards . image tubes (added September 1993) UF computer bulletin boards electron states . thermicons GS level (quantity) thermionic diodes communication networks . energy levels . . cesium diodes . electron states . vacuum tubes computer conferencing particle energy . . cathode ray tubes . . . monoscopes electronic mail . electron energy Internet resources . electron states picture tubes internets density functional theory . . cesium diodes websites electronic structure World Wide Web . . microwave tubes excimers . celescopes . cyclotron resonance devices excitation electronic commerce ground state (added April 2000) klystrons many electron effects DEF The buying and selling of goods and magnetrons noise temperature services via the Internet or other computer com-. nigotrons munications network. planotrons electron sweeping e-commerce traveling wave tubes USE sweep frequency GS commerce . . . . backward wave tubes . electronic commerce . helitrons electron telescopes computer information security ... carcinotrons USE particle telescopes electronic mail . vacuum tube oscillators Internet resources cavity resonators electron temperature websites circuits USE electron energy World Wide Web crossed field amplifiers diodes electron trajectories electronic control fiber optics DEF The paths of electrons. Used for elec-RT automatic control heaters tron paths. cascade control modulators electron paths ∞ control orbitrons GS trajectories control equipment oscillators . particle trajectories control systems design pentodes . electron trajectories controllers rectifiers diffraction paths current regulators resonators magnetic rigidity electric control tetrodes radiation belts electric switches transconductance feedback control triodes hydraulic control electron transfer tube grids backward wave tubes optical control ∞ tubes pneumatic control charge exchange tunnel cathodes charge transfer remote control velocity modulation Terminal Configured Vehicle Program oxidation x ray tubes transferred electron devices voltage regulators transferring electronic countermeasures electron tunneling GS countermeasures electron transitions tunnel resistors atomic theory . electronic countermeasures energy levels . . antiradar coatings Auger effect Josephson effect Auger spectroscopy . chaff MIM diodes Balmer series RT deception quantum dots electromagnetic compatibility electromagnetic interference band structure of solids resonant tunneling Bohr theory conduction bands scanning tunneling microscopy electronic aircraft semiconductors (materials) electronic warfare excimers single electron transistors excitation jamming superconductivity optical countermeasures forbidden transitions tunnel diodes Franck-Condon principle radar detection tunnel junctions Jahn-Teller effect radio frequency interference ∞ tunneling lasing stealth technology many electron effects nuclear capture electronic equipment electronarcosis optical transition DEF Equipment in which electricity is conelectroanesthesia oscillator strengths ducted principally by electrons moving through a electrophysiology Paschen series vacuum, gas, or semiconductor. Rydberg series GS electronic equipment ∞ transition . diodes transition probabilities electron-hole drops . . crystal rectifiers x ray lasers DEF Exciton condensations exhibiting the . . plasma diodes xenon chloride lasers properties of electrically conducting plasmas . . semiconductor diodes which form in germanium and silicon crystals at . . . avalanche diodes xenon fluoride lasers sufficiently low cryogenic temperatures.

RT carrier density (solid state) . . . . cryosar electron tubes Barritt diodes luminescence ... germanium diodes DEF Devices in which conduction by electrons takes place through a vacuum of gaseous magnetic fields . . . Gunn diodes medium within a gas tight envelope.

GS electron tubes optical pumping . . . . transferred electron devices phase transformations . . . junction diodes .... MIM diodes . camera tubes plasma density . . image dissector tubes plasma equilibrium . step recovery diodes

semiconductor plasmas

... light emitting diodes

. . orthicons

parametric diodes	aluminum gallium arsenide lasers	printed circuits
photodiodes	DBR lasers	thick films
•	fiber lasers	TTL integrated circuits
Schottky diodes	gallium arsenide lasers	TTE Integrated circuits
tunnel diodes	•	electronic photography
resonant tunneling diodes	quantum cascade lasers	
varactor diodes	quantum well lasers	USE electro-optical photography
thermionic diodes	ruby lasers	electronic publishing
cesium diodes	YAG lasers	
. electronic filters	YLF lasers	(added July 1995)
. electronic modules	. spacecraft electronic equipment	RT computer conferencing
	RT antenna components	document markup languages
micromodules	bubble technique	documents
. electronic packaging	∞ electric equipment	electronic mail
. electronic recording systems	∞ electronics	hypertext
. electronic transducers	∞ equipment	information dissemination
. miniature electronic equipment		multimedia
. solid state devices	radiation hardening	printing
cryotrons	spherical antennas	printing
crystal rectifiers	system generated electromagnetic	electronic recording systems
metal-nitride-oxide-semiconductors	pulses	GS electronic equipment
multispectral linear arrays		• •
•	electronic equipment tests	. electronic recording systems
semiconductor devices	SN (CHECKOUT OF ELECTRONIC	RT recording instruments
avalanche diodes	EQUIPMENT)	∞ systems
cryosar	RT Earth terminal measurement system	tape recorders
Barritt diodes	electric equipment tests	
charge transfer devices	electrical measurement	electronic signal measurement
bucket brigade devices	environmental tests	USE signal measurement
charge coupled devices	fault detection	
charge injection devices	nondestructive tests	electronic spectra
germanium diodes	oscilloscopes	SN (EMISSION OR ABSORPTION
		MOLECULAR SPECTRA OF AN
heterojunction devices	quality control	ELECTRON TRANSITION)
high electron mobility transistors	resonance testing	GS molecular properties
MODFETS	self tests	. molecular spectra
junction diodes	stability tests	electronic spectra
MIM diodes	∞ test equipment	spectra
step recovery diodes	∞ tests	. energy spectra
light emitting diodes	vibration tests	electronic spectra
metal oxide semiconductors	VIDIGUOTI COCC	. molecular spectra
CMOS	electronic filters	
		electronic spectra
ITO (semiconductors)	GS electronic equipment	. radiation spectra
SOS (semiconductors)	electronic filters	electromagnetic spectra
MIM (semiconductors)	RT electric filters	line spectra
MIS (semiconductors)	∞ filters	electronic spectra
MOM (semiconductors)	FIR filters	RT absorption spectra
MSM (semiconductors)		emission spectra
NDM semiconductor devices	electronic levels	Lyman spectra
neuristors	USE electron energy	spectral bands
parametric diodes	energy levels	
photodiodes	chicigy levels	vibrational spectra
	electronic mail	alastronia atrustura
photovoltaic cells		electronic structure
solar cells	UF e-mail	(added April 1999)
vertical junction solar cells	GS telecommunication	SN (THE TERM "ATOMIC STRUCTURE" WAS
Schottky diodes	. electronic mail	ÙSED FOR THIS CONCEPT PRIOR TO MAY 1999)
semiconductor lasers	RT communication networks	RT atomic structure
aluminum gallium arsenide	communication satellites	band structure of solids
lasers		
	computer conferencing	
gallium arsenide lasers	computer conferencing computer networks	density functional theory
gallium arsenide lasers	computer networks	density functional theory electron energy
quantum cascade lasers	computer networks data transmission	density functional theory electron energy electron orbitals
quantum cascade lasers quantum well lasers	computer networks data transmission electronic bulletin boards	density functional theory electron energy
quantum cascade lasers quantum well lasers YLF lasers	computer networks data transmission electronic bulletin boards electronic commerce	density functional theory electron energy electron orbitals
quantum cascade lasers quantum well lasers YLF lasers SOI (semiconductors)	computer networks data transmission electronic bulletin boards electronic commerce electronic publishing	density functional theory electron energy electron orbitals electron states
quantum cascade lasers quantum well lasers YLF lasers SOI (semiconductors) thermistors	computer networks data transmission electronic bulletin boards electronic commerce electronic publishing Internet resources	density functional theory electron energy electron orbitals electron states energy bands
quantum cascade lasers quantum well lasers YLF lasers SOI (semiconductors) thermistors thyristors	computer networks data transmission electronic bulletin boards electronic commerce electronic publishing	density functional theory electron energy electron orbitals electron states energy bands energy gaps (solid state) energy levels
quantum cascade lasers quantum well lasers YLF lasers SOI (semiconductors) thermistors thyristors silicon controlled rectifiers	computer networks data transmission electronic bulletin boards electronic commerce electronic publishing Internet resources internets	density functional theory electron energy electron orbitals electron states energy bands energy gaps (solid state)
quantum cascade lasers quantum well lasers YLF lasers SOI (semiconductors) thermistors thyristors	computer networks data transmission electronic bulletin boards electronic commerce electronic publishing Internet resources	density functional theory electron energy electron orbitals electron states energy bands energy gaps (solid state) energy levels Fermi liquids
quantum cascade lasers quantum well lasers YLF lasers SOI (semiconductors) thermistors thyristors silicon controlled rectifiers	computer networks data transmission electronic bulletin boards electronic commerce electronic publishing Internet resources internets  electronic modules GS electronic equipment	density functional theory electron energy electron orbitals electron states energy bands energy gaps (solid state) energy levels Fermi liquids  electronic switches
quantum cascade lasers quantum well lasers YLF lasers SOI (semiconductors) thermistors thyristors silicon controlled rectifiers transferred electron devices transistor amplifiers	computer networks data transmission electronic bulletin boards electronic commerce electronic publishing Internet resources internets  electronic modules	density functional theory electron energy electron orbitals electron states energy bands energy gaps (solid state) energy levels Fermi liquids
quantum cascade lasers quantum well lasers YLF lasers SOI (semiconductors) thermistors thyristors silicon controlled rectifiers transferred electron devices transistor amplifiers transistors	computer networks data transmission electronic bulletin boards electronic commerce electronic publishing Internet resources internets  electronic modules GS electronic equipment	density functional theory electron energy electron orbitals electron states energy bands energy gaps (solid state) energy levels Fermi liquids  electronic switches USE switching circuits
quantum cascade lasers quantum well lasers YLF lasers SOI (semiconductors) thermistors thyristors silicon controlled rectifiers transferred electron devices transistor amplifiers transistors bipolar transistors	computer networks data transmission electronic bulletin boards electronic commerce electronic publishing Internet resources internets  electronic modules GS electronic equipment . electronic modules micromodules	density functional theory electron energy electron orbitals electron states energy bands energy gaps (solid state) energy levels Fermi liquids  electronic switches USE switching circuits electronic transducers
quantum cascade lasers quantum well lasers YLF lasers SOI (semiconductors) thermistors thyristors silicon controlled rectifiers transferred electron devices transistor amplifiers transistors bipolar transistors field effect transistors	computer networks data transmission electronic bulletin boards electronic commerce electronic publishing Internet resources internets  electronic modules GS electronic equipment . electronic modules micromodules modules modules	density functional theory electron energy electron orbitals electron states energy bands energy gaps (solid state) energy levels Fermi liquids  electronic switches USE switching circuits  electronic transducers GS electronic equipment
quantum cascade lasers quantum well lasers YLF lasers SOI (semiconductors) thermistors thyristors silicon controlled rectifiers transferred electron devices transistor amplifiers transistors bipolar transistors field effect transistors charge flow devices	computer networks data transmission electronic bulletin boards electronic commerce electronic publishing Internet resources internets  electronic modules GS electronic equipment electronic modules . micromodules modules . electronic modules . electronic modules	density functional theory electron energy electron orbitals electron states energy bands energy gaps (solid state) energy levels Fermi liquids  electronic switches USE switching circuits  electronic transducers GS electronic equipment electronic transducers
quantum cascade lasers quantum well lasers YLF lasers SOI (semiconductors) thermistors thyristors silicon controlled rectifiers transferred electron devices transistor amplifiers transistors bipolar transistors field effect transistors charge flow devices JFET	computer networks data transmission electronic bulletin boards electronic commerce electronic publishing Internet resources internets  electronic modules GS electronic equipment . electronic modules micromodules modules . electronic modules electronic modules micromodules micromodules	density functional theory electron energy electron orbitals electron states energy bands energy gaps (solid state) energy levels Fermi liquids  electronic switches USE switching circuits  electronic transducers GS electronic equipment electronic transducers transducers
quantum cascade lasers quantum well lasers YLF lasers SOI (semiconductors) thermistors thyristors silicon controlled rectifiers transferred electron devices transistor amplifiers transistors bipolar transistors field effect transistors charge flow devices JFET MODFETS	computer networks data transmission electronic bulletin boards electronic commerce electronic publishing Internet resources internets  electronic modules GS electronic equipment . electronic modules micromodules modules micromodules micromodules RT ∞ hardware	density functional theory electron energy electron orbitals electron states energy bands energy gaps (solid state) energy levels Fermi liquids  electronic switches USE switching circuits  electronic transducers GS electronic equipment . electronic transducers transducers . electronic transducers
quantum cascade lasers quantum well lasers YLF lasers SOI (semiconductors) thermistors thyristors silicon controlled rectifiers transferred electron devices transistor amplifiers transistors bipolar transistors field effect transistors charge flow devices JFET MODFETS high electron mobility transistors	computer networks data transmission electronic bulletin boards electronic commerce electronic publishing Internet resources internets  electronic modules GS electronic equipment . electronic modules micromodules modules micromodules modules micromodules modules micromodules modules micromodules modules micromodules micromodules electronic modules micromodules RT ∞ hardware miniature electronic equipment	density functional theory electron energy electron orbitals electron states energy bands energy gaps (solid state) energy levels Fermi liquids  electronic switches USE switching circuits  electronic transducers GS electronic equipment electronic transducers transducers
quantum cascade lasers quantum well lasers YLF lasers SOI (semiconductors) thermistors thyristors silicon controlled rectifiers transferred electron devices transistor amplifiers transistors bipolar transistors field effect transistors charge flow devices JFET MODFETS high electron mobility transistors MODFETS	computer networks data transmission electronic bulletin boards electronic commerce electronic publishing Internet resources internets  electronic modules GS electronic equipment electronic modules . micromodules electronic equipment minature electronic equipment modularity	density functional theory electron energy electron orbitals electron states energy bands energy gaps (solid state) energy levels Fermi liquids  electronic switches USE switching circuits  electronic transducers GS electronic equipment . electronic transducers transducers . electronic transducers
quantum cascade lasers quantum well lasers YLF lasers SOI (semiconductors) thermistors thyristors silicon controlled rectifiers transferred electron devices transistor amplifiers transistors bipolar transistors field effect transistors charge flow devices JFET MODFETS high electron mobility transistors MODFETS junction transistors	computer networks data transmission electronic bulletin boards electronic commerce electronic publishing Internet resources internets  electronic modules GS electronic equipment . electronic modules micromodules modules micromodules modules micromodules modules micromodules modules micromodules modules micromodules micromodules electronic modules micromodules RT ∞ hardware miniature electronic equipment	density functional theory electron energy electron orbitals electron states energy bands energy gaps (solid state) energy levels Fermi liquids  electronic switches USE switching circuits  electronic transducers GS electronic equipment electronic transducers transducers electronic transducers  electronic transducers transducers TT magnetic transducers
quantum cascade lasers quantum well lasers YLF lasers SOI (semiconductors) thermistors thyristors silicon controlled rectifiers transferred electron devices transistor amplifiers transistors bipolar transistors field effect transistors charge flow devices JFET MODFETS high electron mobility transistors MODFETS	computer networks data transmission electronic bulletin boards electronic commerce electronic publishing Internet resources internets  electronic modules GS electronic equipment electronic modules . micromodules electronic equipment minature electronic equipment modularity	density functional theory electron energy electron orbitals electron states energy bands energy gaps (solid state) energy levels Fermi liquids  electronic switches USE switching circuits  electronic transducers GS electronic equipment electronic transducers transducers transducers  Electronic transducers  T magnetic transducers ∞ sensors
quantum cascade lasers quantum well lasers YLF lasers SOI (semiconductors) thermistors thyristors silicon controlled rectifiers transferred electron devices transistor amplifiers transistors bipolar transistors field effect transistors charge flow devices JFET MODFETS high electron mobility transistors MODFETS junction transistors	computer networks data transmission electronic bulletin boards electronic commerce electronic publishing Internet resources internets  electronic modules GS electronic equipment electronic modules . micromodules electronic equipment minature electronic equipment modularity	density functional theory electron energy electron orbitals electron states energy bands energy gaps (solid state) energy levels Fermi liquids  electronic switches USE switching circuits  electronic transducers GS electronic equipment electronic transducers transducers transducers  Electronic transducers  T magnetic transducers ∞ sensors
quantum cascade lasers quantum well lasers YLF lasers SOI (semiconductors) thermistors thyristors silicon controlled rectifiers transferred electron devices transistor amplifiers transistors bipolar transistors field effect transistors charge flow devices JFET MODFETS high electron mobility transistors MODFETS junction transistors JFET	computer networks data transmission electronic bulletin boards electronic commerce electronic publishing Internet resources internets  electronic modules GS electronic equipment . electronic modules micromodules modules micromodules micromodules  RT ∞ hardware miniature electronic equipment modularity subminiaturization	density functional theory electron energy electron orbitals electron states energy bands energy gaps (solid state) energy levels Fermi liquids  electronic switches USE switching circuits  electronic transducers GS electronic equipment electronic transducers transducers transducers  Electronic transducers  T magnetic transducers  ∞ sensors ultrasonic wave transducers  electronic warfare
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SN

RT

RT

deception electron, when used alone, commmonly refers nonlinear optics electromagnetic compatibility to a negative electron. A positive electron is electromagnetic interference usually called a positron, and a negative elecelectromagnetic spectra tron is sometimes called a negatron. electro-optical photography electronic countermeasures electron flux electronic photography evasive actions nonrelativistic electrons GS imagery . photography jamming particles missile detection . charged particles electro-optical photography peacetime . . energetic particles astronomical photography radar detection black and white photography ... electrons radio frequency interference image resolution . . . . conduction electrons stealth technology Lallemand cameras free electrons optical measurement strategy . . . . high energy electrons . relativistic electron beams ∞ optics ∞ electronics streak photography hot electrons (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS ... N electrons . . . . negatrons electro-optical switching LISTED BELOW) . . . . photoelectrons USE optical switching Study and application of the motions of electrons through vacuum and gaseous, conelectro-optics polarons ducting, or semiconducting media. Used for electrophysics . . . . solar electrons photoelectronics. electro-optics . corpuscular radiation photoelectronics acousto-optics . energetic particles astrionics birefringence electrons avionics charge injection devices conduction electrons digital electronics electrochromism electrical engineering free electrons electroluminescence . high energy electrons electricity electron optics . relativistic electron beams electronic equipment integrated optics hot electrons electrophysics medical electronics Kerr electrooptical effect .... N electrons laser microscopy negatrons microelectronics light modulators . . . . photoelectrons molecular electronics light valves . . . pi-electrons nucleonics magneto-optics . . . . polarons quantum electronics optical computers solar electrons radio electronics optical control . elementary particles thermionics optical relay systems . . fermions transistor circuits optical switching ... leptons volt-ampere characteristics ∞ optics .... electrons optoelectronic devices .... conduction electrons electron-ion recombination . . . . . free electrons photonics recombination reactions . . . . high energy electrons position sensing electron-ion recombination pushbroom sensor modes . relativistic electron beams . radiative recombination Stark effect hot electrons ion recombination tunable filters .... N electrons plasma control .... negatrons electrophoresis electronography photoelectrons DEF The movement of colloidal particles electrophysiology . . . . pi-electrons printing polarons produced by the application of an electric potential. Used for continuous flow electrophoresis. .... solar electrons electron-positron annihilation continuous flow electrophoresis acceptor materials bioprocessing USE positron annihilation beta particles Bohr magneton cosmic rays colloids electron-positron pairs electrodeposition (added September 1988) electroplating donor materials particles ∞ microgravity applications electron acceleration elementary particles particle motion electron mass electron-positron pairs electron-positron pairs annihilation reactions electrophotometers electron-positron plasmas charged particles photoelectric photometers excitons electron-positron plasmas measuring instruments holes (electron deficiencies) . optical measuring instruments electrons Lewis base pair production . . photometers majority carriers positron annihilation . electrophotometers materials radiation measuring instruments positrons minority carriers . . photometers muonium electron-positron plasmas . electrophotometers n-type semiconductors (added September 1988) optical equipment nuclear radiation particles . optical measuring instruments Pomeranchuk theorem . charged particles . . photometers quantum numbers . . energetic particles . electrophotometers radiation belts . . . plasmas (physics) electrophotometry semiconductors (materials) .... electron-positron plasmas Suhl effect . corpuscular radiation electrophotometry chemical tests . . energetic particles electronystagmography . . . plasmas (physics) . chemical analysis bioengineering . electron-positron plasmas . electrophotometry . biometrics optical measurement electron plasma . electronystagmography electron-positron pairs . photometry physiological tests electrophotometry electrons . electronystagmography positrons RT colorimetry eye examinations electrophotometers relativistic plasmas eye movements electrophysics nystagmus ∞ materials tests ophthalmology DEF Particles of very small mass, carrying a microanalysis

electro-optical effect

light modulation

RT ∞ effects ∞ Kerr effects photometers

qualitative analysis

quantitative analysis

spectroscopic analysis

pixels

# unit negative or positive charge. Negative elec-trons, surrounding the nucleus (i.e., orbital elec-trons) are prewent in all atoms. Their number is equal to the number of positive charges (or protons) in the particular nucleus. The term 296

unit negative or positive charge. Negative elec-

	spectroscopy	electrolytes electrolytic cells	microrocket engines
electro	physics	electrowinning	restartable rocket engines
	electrophysics	electrowining	sustainer rocket engines
ao	. electro-optics	electroretinography	Vernier engines
	. molecular electronics	GS bioengineering	vernier engines
RT	electrochemistry	. biometrics	electrostatic erosion
	electrokinetics	electroretinography	USE spark machining
	electromagnetism	RT electrophysiology	00= <b>0pa</b>
	• electronics	medical electronics	electrostatic fields
	electrophotometry	retina	USE electric fields
0	• physics		
	• science	electrorheological fluids	electrostatic generators
-	theoretical physics	(added June 1990)	GS electric generators
	incorolical priyeres	UF ER fluids	. direct power generators
electro	physiology	RT elastodynamics	electrostatic generators
GS	physiology	electroactive polymers	RT arc generators
	electrophysiology	magnetorheological fluids	∞ generators
RT	body measurement (biology)	rheology	klystrons
	depolarization	smart materials	magnetrons
	echoencephalography		rotating generators
	electrocardiography	electroseismic effect	voltage generators
	electroencephalography	USE electric current	
	electromyography	seismic waves	electrostatic gyroscopes
	electronarcosis		UF electrically suspended gyroscopes
	electronography	∞ electroslag process	ESG (gyroscopes)
	electroplethysmography	SN (USE OF A MORE SPECIFIC TERM IS	GS gyroscopes
	electroretinography	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)	electrostatic gyroscopes
	His bundle	RT electroslag refining	RT levitation
	information processing (biology)	electroslag welding	alastrostatia plasma
	ion channels (biology)	gwg	electrostatic plasma
	myelin sheath	electroslag refining	USE plasmas (physics)
	nerve fibers	GS refining	alastrostatia procipitatora
	nervous system	. electroslag refining	electrostatic precipitators GS separators
	neurology	RT arc melting	•
0	∘ science	∞ electroslag process	. precipitators electrostatic precipitators
		resistance heating	RT adsorption
electro	plating	3	•
GS	coating	electroslag welding	air purification air sampling
	electroplating	GS welding	dust collectors
	coatings	. fusion welding	
	. electroplating	electric welding	fly ash ∞ separation
	deposition	electroslag welding	∞ separation
	. electrodeposition	RT ∞ electroslag process	electrostatic probes
	electroplating		UF Langmuir probes
	plating	electrostatic bonding	GS measuring instruments
	. electroplating	DEF Use of the particle-attracting property	. plasma probes
RT	baths	of electrostatic charges to bond particles of one	electrostatic probes
	cathodic coatings	charge to those of the opposite charge.	. radiation measuring instruments
	current density	RT binding energy	. electrostatic probes
	electrodes	coverings	RT electron energy
	electroforming	encapsulating	plasma frequencies
	electrolysis	energy technology	radiation counters
	electrolytes	glass	SCATHA satellite
	electrolytic cells	solar arrays	
	electrophoresis	solar cells	electrostatic propulsion
	metallizing		GS propulsion
	nickel plate	electrostatic charge	. electric propulsion
	protective coatings	GS electric charge	electrostatic propulsion
	surface finishing	electrostatic charge	electrostatic propulsion
			ion propulsion
	tall a second	RT capacitance	ion propulsion . low thrust propulsion
	plethysmography	RT capacitance charge distribution	ion propulsion . low thrust propulsion electrostatic propulsion
electro GS	bioengineering	RT capacitance charge distribution ∞ charging	ion propulsion .low thrust propulsion .electrostatic propulsionion propulsion
	bioengineering biometrics	RT capacitance charge distribution ∞ charging electric discharges	ion propulsion .low thrust propulsion . electrostatic propulsionion propulsion .spacecraft propulsion
	bioengineering biometrics body measurement (biology)	RT capacitance charge distribution ∞ charging electric discharges electric fields	ion propulsion low thrust propulsion . electrostatic propulsionion propulsion .spacecraft propulsion . electrostatic propulsion .electrostatic propulsion
	bioengineering biometrics body measurement (biology) electroplethysmography	RT capacitance charge distribution ∞ charging electric discharges electric fields electrostatics	ion propulsion . low thrust propulsion electrostatic propulsion ion propulsion . spacecraft propulsion . electrostatic propulsion ion propulsion
	bioengineering biometrics biometrics body measurement (biology) electroplethysmography plethysmography	RT capacitance charge distribution ∞ charging electric discharges electric fields electrostatics SCATHA satellite	ion propulsion .low thrust propulsion .electrostatic propulsionion propulsion .spacecraft propulsion .electrostatic propulsionion propulsionion propulsionion propulsion RT electromagnetic propulsion
GS	bioengineering biometrics body measurement (biology) electroplethysmography plethysmography electroplethysmography	RT capacitance charge distribution ∞ charging electric discharges electric fields electrostatics SCATHA satellite static electricity	ion propulsion . low thrust propulsion electrostatic propulsion ion propulsion . spacecraft propulsion . electrostatic propulsion ion propulsion
	bioengineering biometrics body measurement (biology) electroplethysmography plethysmography electroplethysmography blood circulation	RT capacitance charge distribution ∞ charging electric discharges electric fields electrostatics SCATHA satellite	ion propulsion .low thrust propulsion .electrostatic propulsion .ion propulsion .spacecraft propulsion .electrostatic propulsion .ion propulsion RT electromagnetic propulsion plasma propulsion
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GS T	bioengineering biometrics body measurement (biology) electroplethysmography plethysmography electroplethysmography blood circulation electrophysiology medical electronics	RT capacitance charge distribution  ∞ charging electric discharges electric fields electrostatics SCATHA satellite static electricity xerography  electrostatic drag GS dynamic characteristics	ion propulsion .low thrust propulsionelectrostatic propulsionion propulsionspacecraft propulsionion propulsionion propulsionion propulsion BT electromagnetic propulsion plasma propulsion electrostatic shielding GS shielding .electrostatic shielding
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RT electro	bioengineering biometrics body measurement (biology) electroplethysmography electroplethysmography electroplethysmography blood circulation electrophysiology medical electronics  polishing The improvement in surface finish of a	RT capacitance charge distribution  ∞ charging electric discharges electric fields electrostatics SCATHA satellite static electricity xerography  electrostatic drag GS dynamic characteristics . drag electrostatic drag	ion propulsion .low thrust propulsionelectrostatic propulsionion propulsionspacecraft propulsionion propulsionion propulsionion propulsion BT electromagnetic propulsion plasma propulsion electrostatic shielding GS shielding .electrostatic shielding
RT  electro	bioengineering biometrics body measurement (biology) electroplethysmography plethysmography electroplethysmography blood circulation electrophysiology medical electronics  polishing The improvement in surface finish of a ffected by making it anodic in an appro-	RT capacitance charge distribution  ∞ charging electric discharges electric fields electrostatics SCATHA satellite static electricity xerography  electrostatic drag GS dynamic characteristics . drag . electrostatic drag RT drag measurement	ion propulsion .low thrust propulsion .electrostatic propulsionion propulsionspacecraft propulsionion propulsionion propulsionion propulsion BT electromagnetic propulsion plasma propulsion  electrostatic shielding GS shielding .electrostatic shielding RT electric conductors SCATHA satellite
RT  electro DEF metal e priate s	bioengineering biometrics body measurement (biology) electroplethysmography plethysmography electroplethysmography blood circulation electrophysiology medical electronics  polishing The improvement in surface finish of a ffected by making it anodic in an appro-	RT capacitance charge distribution  ∞ charging electric discharges electric fields electrostatics SCATHA satellite static electricity xerography  electrostatic drag GS dynamic characteristics . drag electrostatic drag	ion propulsion .low thrust propulsion .electrostatic propulsionion propulsionspacecraft propulsionion propulsionion propulsionion propulsion BT electromagnetic propulsion plasma propulsion  electrostatic shielding GS shielding .electrostatic shielding RT electric conductors SCATHA satellite
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RT  electro DEF metal e priate s	bioengineering biometrics body measurement (biology) electroplethysmography electroplethysmography electroplethysmography electroplethysmography blood circulation electrophysiology medical electronics  polishing The improvement in surface finish of a ffected by making it anodic in an approblution. Used for electrolytic polishing electrolytic polishing metal finishing	RT capacitance charge distribution  ∞ charging electric discharges electric fields electrostatics SCATHA satellite static electricity xerography  electrostatic drag GS dynamic characteristics . drag electrostatic drag RT drag measurement satellite drag  electrostatic engines	ion propulsion .low thrust propulsion .electrostatic propulsion .spacecraft propulsion .spacecraft propulsion .electrostatic propulsion .ion propulsion BT electromagnetic propulsion plasma propulsion electrostatic shielding GS shielding electrostatic shielding RT electric conductors SCATHA satellite  electrostatic waves GS elastic waves .magnetohydrodynamic waves
RT  electron DEF metal e priate s UF	bioengineering biometrics body measurement (biology) electroplethysmography electroplethysmography electroplethysmography electroplethysmography blood circulation electrophysiology medical electronics  polishing The improvement in surface finish of a ffected by making it anodic in an approbation. Used for electrolytic polishing. electrolytic polishing metal finishing electropolishing	RT capacitance charge distribution  ∞ charging electric discharges electric fields electrostatics SCATHA satellite static electricity xerography  electrostatic drag GS dynamic characteristics . drag electrostatic drag  RT drag measurement satellite drag  electrostatic engines DEF Electric rocket engines that use charge	ion propulsion .low thrust propulsion .electrostatic propulsionion propulsionspacecraft propulsionion propulsionion propulsionion propulsion BT electromagnetic propulsion plasma propulsion  electrostatic shielding GS shielding .electric static shielding BT electric conductors SCATHA satellite  electrostatic waves GS elastic waves . magnetohydrodynamic waves plasma waves
RT  electron DEF metal e priate s UF	bioengineering biometrics body measurement (biology) electroplethysmography plethysmography electroplethysmography blood circulation electrophysiology medical electronics  polishing The improvement in surface finish of a ffected by making it anodic in an appro- plution. Used for electrolytic polishing. electrolytic polishing metal finishing electropolishing polishing	RT capacitance charge distribution  ∞ charging electric discharges electric fields electrostatics SCATHA satellite static electricity xerography  electrostatic drag GS dynamic characteristics . drag electrostatic drag RT drag measurement satellite drag  electrostatic engines DEF Electric rocket engines that use charge potential differences to accelerate propellant	ion propulsion .low thrust propulsion .electrostatic propulsion .spacecraft propulsion .spacecraft propulsion .electrostatic propulsion .ion propulsion BT electromagnetic propulsion plasma propulsion  electrostatic shielding GS shielding .electrostatic shielding BT electric conductors SCATHA satellite  electrostatic waves GS elastic waves .magnetohydrodynamic waves .plasma waves .electrostatic waves .plasma waves .electrostatic waves
RT  electron DEF metal e priate s UF	bioengineering biometrics body measurement (biology) electroplethysmography plethysmography electroplethysmography blood circulation electrophysiology medical electronics  polishing The improvement in surface finish of a ffected by making it anodic in an approbution. Used for electrolytic polishing electrolytic polishing metal finishing electropolishing polishing metal polishing metal polishing	RT capacitance charge distribution  ∞ charging electric discharges electric fields electrostatics SCATHA satellite static electricity xerography  electrostatic drag GS dynamic characteristics . drag electrostatic drag RT drag measurement satellite drag  electrostatic engines  DEF Electric rocket engines that use charge potential differences to accelerate propellant ions.	ion propulsion .low thrust propulsion .electrostatic propulsion .spacecraft propulsion .spacecraft propulsion .electrostatic propulsion .ion propulsion .ion propulsion  RT electromagnetic propulsion plasma propulsion  electrostatic shielding GS shielding .electrostatic shielding RT electric conductors SCATHA satellite  electrostatic waves GS elastic waves .magnetohydrodynamic waves .plasma waves .plasma waves .electrostatic waves RT diffusion waves
RT  electro DEF metal e priate s UF GS	bioengineering biometrics body measurement (biology) electroplethysmography plethysmography electroplethysmography electroplethysmography blood circulation electrophysiology medical electronics  polishing The improvement in surface finish of a ffected by making it anodic in an approblution. Used for electrolytic polishing. electrolytic polishing metal finishing electropolishing polishing metal polishing metal polishing electropolishing	RT capacitance charge distribution  ∞ charging electric discharges electric fields electrostatics SCATHA satellite static electricity xerography  electrostatic drag GS dynamic characteristics . drag . electrostatic drag RT drag measurement satellite drag  electrostatic engines DEF Electric rocket engines that use charge potential differences to accelerate propellant ions. GS engines	ion propulsion .low thrust propulsion .electrostatic propulsion .spacecraft propulsion .spacecraft propulsion .electrostatic propulsion .ion propulsion .ion propulsion  RT electromagnetic propulsion plasma propulsion  electrostatic shielding GS shielding .electrostatic shielding RT electric conductors SCATHA satellite  electrostatic waves GS elastic waves .magnetohydrodynamic waves .plasma waves .electrostatic waves RT diffusion waves ionic waves
RT  electron DEF metal e priate s UF	bioengineering biometrics body measurement (biology) electroplethysmography plethysmography electroplethysmography electroplethysmography blood circulation electrophysiology medical electronics  polishing The improvement in surface finish of a fected by making it anodic in an approbation. Used for electrolytic polishing electrolytic polishing metal finishing electropolishing metal polishing electropolishing electropolishing electropolishing electropolishing electropolishing electrochemical machining	RT capacitance charge distribution  ∞ charging electric discharges electric fields electrostatics SCATHA satellite static electricity xerography  electrostatic drag GS dynamic characteristics . drag . electrostatic drag RT drag measurement satellite drag  electrostatic engines  DEF Electric rocket engines that use charge potential differences to accelerate propellant ions. GS engines . rocket engines	ion propulsion .low thrust propulsion .electrostatic propulsion .spacecraft propulsion .spacecraft propulsion .electrostatic propulsion .ion propulsion BT electromagnetic propulsion plasma propulsion electrostatic shielding GS shielding electrostatic shielding RT electric conductors SCATHA satellite  electrostatic waves GS elastic waves .magnetohydrodynamic waves .plasma waves .lectrostatic waves RT diffusion waves ionic waves longitudinal waves
RT  electro DEF metal e priate s UF GS	bioengineering biometrics body measurement (biology) electroplethysmography plethysmography electroplethysmography electrophysiology medical electronics  polishing The improvement in surface finish of a ffected by making it anodic in an approbution. Used for electrolytic polishing metal finishing electropolishing polishing metal polishing metal polishing electropolishing metallography	RT capacitance charge distribution charge distribution charging electric discharges electric fields electrostatics SCATHA satellite static electricity xerography  electrostatic drag GS dynamic characteristics drag electrostatic drag RT drag measurement satellite drag  electrostatic engines DEF Electric rocket engines that use charge potential differences to accelerate propellant ions. GS engines rocket engines electric rocket engines rocket engines electric rocket engines	ion propulsion .low thrust propulsion .electrostatic propulsion .spacecraft propulsion .spacecraft propulsion .electrostatic propulsion .ion propulsion .ion propulsion  RT electromagnetic propulsion plasma propulsion  electrostatic shielding GS shielding .electrostatic shielding RT electric conductors SCATHA satellite  electrostatic waves .magnetohydrodynamic waves .plasma waves .plasma waves .plasma waves .electrostatic waves  RT diffusion waves longitudinal waves magnetoelastic waves magnetoelastic waves
RT  electro DEF metal e priate s UF GS	bioengineering biometrics body measurement (biology) electroplethysmography plethysmography electroplethysmography electroplethysmography blood circulation electrophysiology medical electronics  polishing The improvement in surface finish of a fected by making it anodic in an approbation. Used for electrolytic polishing electrolytic polishing metal finishing electropolishing metal polishing electropolishing electropolishing electropolishing electropolishing electropolishing electrochemical machining	RT capacitance charge distribution  ∞ charging electric discharges electric fields electrostatics SCATHA satellite static electricity xerography  electrostatic drag GS dynamic characteristics . drag . electrostatic drag RT drag measurement satellite drag  electrostatic engines DEF Electric rocket engines that use charge potential differences to accelerate propellant ions. GS engines . rocket engines . electric rocket engines electrostatic engines	ion propulsion .low thrust propulsion .electrostatic propulsion .spacecraft propulsion .spacecraft propulsion .electrostatic propulsion .ion propulsion .ion propulsion  RT electromagnetic propulsion plasma propulsion  electrostatic shielding GS shielding .electrostatic shielding RT electric conductors SCATHA satellite  electrostatic waves GS elastic waves .magnetohydrodynamic waves .plasma waves .plasma waves .electrostatic waves  RT diffusion waves longitudinal waves magnetoelastic waves shock waves
RT  electro DEF metale e priate s UF GS	bioengineering biometrics body measurement (biology) electroplethysmography plethysmography electroplethysmography electroplethysmography blood circulation electrophysiology medical electronics  polishing The improvement in surface finish of a ffected by making it anodic in an approbution. Used for electrolytic polishing. electrolytic polishing metal finishing electropolishing metal polishing metal polishing electrochemical machining metallography surface finishing	RT capacitance charge distribution charge distribution charging electric discharges electric fields electrostatics SCATHA satellite static electricity xerography  electrostatic drag GS dynamic characteristics . drag . electrostatic drag RT drag measurement satellite drag  electrostatic engines DEF Electric rocket engines that use charge potential differences to accelerate propellant ions. GS engines . rocket engines . rocket engines . electrostatic engines electrostatic engines electrostatic engines electrostatic engines	ion propulsion .low thrust propulsion .electrostatic propulsion .spacecraft propulsion .spacecraft propulsion .electrostatic propulsion .ion propulsion .ion propulsion  RT electromagnetic propulsion plasma propulsion  electrostatic shielding GS shielding .electrostatic shielding RT electric conductors SCATHA satellite  electrostatic waves .magnetohydrodynamic waves .plasma waves .plasma waves .plasma waves .electrostatic waves  RT diffusion waves longitudinal waves magnetoelastic waves magnetoelastic waves
electro DEF metal e priate s UF GS	bioengineering biometrics body measurement (biology) electroplethysmography plethysmography electroplethysmography electroplethysmography blood circulation electrophysiology medical electronics  polishing The improvement in surface finish of a fected by making it anodic in an approblution. Used for electrolytic polishing electrolytic polishing metal finishing electropolishing polishing metal polishing electrochemical machining metallography surface finishing	RT capacitance charge distribution  ∞ charging electric discharges electric fields electrostatics SCATHA satellite static electricity xerography  electrostatic drag GS dynamic characteristics . drag . electrostatic drag RT drag measurement satellite drag  electrostatic engines DEF Electric rocket engines that use charge potential differences to accelerate propellant ions. GS engines . rocket engines . electric rocket engines . electric rocket engines . ion engines ion engines ion engines cesium engines	ion propulsion .low thrust propulsion .electrostatic propulsion .spacecraft propulsion .populsion .populsion .populsion .populsion .populsion .populsion .populsion .populsion  RT electromagnetic propulsion plasma propulsion electrostatic shielding .electrostatic shielding .electrostatic shielding RT electric conductors .care scattle electrostatic waves .pasma waves .plasma waves .plasma waves .electrostatic waves .plasma waves .lectrostatic waves .plasma waves .lectrostatic waves .plasma manga waves .p
RT  electro DEF metale e priate s UF GS	bioengineering biometrics body measurement (biology) electroplethysmography plethysmography electroplethysmography electrophysiology medical electronics  polishing The improvement in surface finish of a ffected by making it anodic in an approbution. Used for electrolytic polishing metal finishing electropolishing polishing metal polishing metal polishing electropolishing electropolishing electropolishing metallography surface finishing refining refining	RT capacitance charge distribution charge distribution charging electric discharges electric fields electrostatics SCATHA satellite static electricity xerography  electrostatic drag GS dynamic characteristics drag electrostatic drag RT drag measurement satellite drag  electrostatic engines DEF Electric rocket engines that use charge potential differences to accelerate propellant ions. GS engines rocket engines electric rocket engines	ion propulsion .low thrust propulsion .electrostatic propulsion .spacecraft propulsion .spacecraft propulsion .electrostatic propulsion .ion propulsion .ion propulsion  RT electromagnetic propulsion plasma propulsion  electrostatic shielding GS shielding .electrostatic shielding RT electric conductors SCATHA satellite  electrostatic waves .magnetohydrodynamic waves .plasma waves .plasma waves .plasma waves .plasma waves longitudinal waves longitudinal waves magnetoelastic waves shock waves wave-particle interactions
electro DEF metal e priate s UF GS	bioengineering biometrics body measurement (biology) electroplethysmography plethysmography electroplethysmography electroplethysmography blood circulation electrophysiology medical electronics  polishing The improvement in surface finish of a fected by making it anodic in an approblution. Used for electrolytic polishing electrolytic polishing metal finishing electropolishing polishing metal polishing electrochemical machining metallography surface finishing	RT capacitance charge distribution  ∞ charging electric discharges electric fields electrostatics SCATHA satellite static electricity xerography  electrostatic drag GS dynamic characteristics . drag . electrostatic drag RT drag measurement satellite drag  electrostatic engines DEF Electric rocket engines that use charge potential differences to accelerate propellant ions. GS engines . rocket engines . electric rocket engines . electric rocket engines . ion engines ion engines ion engines cesium engines	ion propulsion .low thrust propulsion .electrostatic propulsion .spacecraft propulsion .spacecraft propulsion .electrostatic propulsion .ion propulsion .ion propulsion  RT electromagnetic propulsion plasma propulsion  electrostatic shielding GS shielding .electrostatic shielding RT electric conductors SCATHA satellite  electrostatic waves .magnetohydrodynamic waves .plasma waves .plasma waves .plasma waves .plasma waves longitudinal waves longitudinal waves magnetoelastic waves shock waves wave-particle interactions

electrostriction RT Born-Infeld theory ... Elektron 1 satellite . . fermions electric fields . . . baryons . . . . hyperons electromagnetic interactions Elektron 2 satellite GS artificial satellites electromechanics . . . . xi hyperons electrostatic charge . meteorological satellites . . . . omega-mesons magnetostatics . . Elektron satellites . . . . rho-mesons Poisson equation ... Elektron 2 satellite ... sigma-mesons static electricity ... eta-mesons Elektron 4 satellite ... leptons GS artificial satellites electrostriction . antineutrinos DEF The phenomenon wherein some di-electric materials experience an elastic strain when subjected to an electric field, this strain . meteorological satellites . . . . electrons . . Elektron satellites . conduction electrons ... Elektron 4 satellite . . free electrons being independent of polarity of the field.

GS electrical properties . . . . . high energy electrons Elektron satellites . relativistic electron beams GS artificial satellites electrostriction hot electrons mechanical properties . meteorological satellites . . . . N electrons . . Elektron satellites . . negatrons electrostriction ... Elektron 1 satellite . . photoelectrons electroactive polymers Elektron 2 satellite magnetostriction pi-electrons ... Elektron 4 satellite . . . . . polarons piezoelectricity smart materials . . . . . solar electrons element abundance . . . . muons USE abundance . . . . neutrinos electrosynthesis (added January 2000) . . . . . solar neutrinos elementary excitations . . . . positrons USE electrochemical synthesis quasi-particles . . . meson resonance GS elementary excitations . . . . X mesons electrothermal engines . excitons DEF Electric rocket engines that use elec-... neutrons magnons tric energy to heat the propellant and add addi-.... cold neutrons . phonons tional enthalpy. . . . . fast neutrons . phonon beams GS engines .... photoneutrons . plasmons rocket engines
. electric rocket engines . . . . solar neutrons polarons .... thermal neutrons many body problem ... electrothermal engines . . . protons . . . . recoil protons . . . . arc jet engines .... pulsed jet engines
.... resistojet engines elementary particle interactions . solar protons particle interactions . . hadrons . elementary particle interactions ... baryons RT high temperature propellants .. electroweak interactions (field . . . . hyperons ion engines nuclear electric propulsion theory) . . . . . xi hyperons . . high energy interactions . . . . omega-mesons plasma engines . . . strong interactions (field theory) . . . . rho-mesons restartable rocket engines . . meson-meson interactions . . . . sigma-mesons sustainer rocket engines . . meson-nucleon interactions . . . mesons . . nuclear capture . . . . eta-mesons electroweak interactions (field theory) . . . electron capture . . . . hyperons (added April 1994) . . nucleon-nucleon interactions . . . . . xi hyperons particle interactions . . weak energy interactions kaons . elementary particle interactions . . . weak interactions (field theory) . . . . meson resonance electroweak interactions (field . proton-antiproton interactions . X mesons theory) angular distribution . . . . muons electromagnetic interactions electromagnetic interactions ... omega-mesons electroweak model ∞ interactions . . . . pions  $\infty$  interactions ion atom interactions . . . . vector mesons standard model (particle physics) Mandelstam representation particle decay . . . . . rho-mesons weak interactions (field theory) . . . . . sigma-mesons photon-electron interaction . . hypothetical particles electroweak model transverse momentum . . magnetic monopoles (added April 1994) Veneziano model . . nucleons standard electroweak model . . . gluons Weinberg-Salam Gauge Model elementary particles gravitinos field theory (physics) 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 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 . . . . hyperons ionizing radiation

# electrowinning

DEF The production of metals by electrolysis with insoluble anodes in solutions derived from ores or other materials.

electrodeposition electrodes electrolytes electrolytic cells electrorefining

#### Elektron 1 satellite

GS artificial satellites

. meteorological satellites

. . Elektron satellites

. . . . muons . . . . omega-mesons

. xi hyperons

. . . . meson resonance

pions

. . . . . X mesons

. . . . kaons

. . . . vector mesons rho-mesons

. . . . . sigma-mesons

. . . photons

... xi hyperons . . deuterons

. . electron-positron pairs

∞ elements

SN (USE OF A MORE SPECIFIC TERM IS

standard model (particle physics)

neutron scattering

nuclear particles

nuclear radiation

nuclear interactions

nuclei (nuclear physics)

Pomeranchuk theorem

particle accelerators

positron annihilation

quantum theory

radiation belts

	RECOMMENDEDCONSULT THE TERMS		decontamination		Weierstrass functions
	LISTED BELOW)		depletion		Welerstrass functions
RT	atoms		∞ discharge	elliptic in	ntegrals
	chemical elements		disposal		elliptic functions
	hahnium		evacuating (transportation)		•
	heavy elements		evacuating (vacuum)		l cylinders
	isoparametric finite elements light elements		exclusion		circular cylinders
	logical elements		exhaust systems	∞	cylinders
	neutral atoms		exhausting		cylindrical bodies
	nuclear fuel elements		Gaussian elimination		cylindrical shells
	orbital elements		pollution	allintiaa	l galaxiaa
	rutherfordium		purification		I galaxies
	tasks		∞ reduction	do	celestial bodies . galaxies
			rejection		. elliptical galaxies
elevatio	on		∞ separation	RT	disk galaxies
RT	altimetry		stopping	n i	galactic clusters
	altitude		waste disposal		local group (astronomy)
	contours				peculiar galaxies
	digital elevation models	ellipse	s		Population II stars
	head (fluid mechanics)		Plane curves constituting the locus of		ring galaxies
	hydrostatic pressure		ts the sum of whose distances from two		shell galaxies
	hydrostatics		pints called focuses or foci is constant; an		spiral galaxies
	hypsography		ted circle.		star clusters
	low altitude	GS			Virgo galactic cluster
	pressure heads		. Euclidean geometry		g. g
	topography		analytic geometry	elliptica	l orbits
-1			conics	UF	Hohmann trajectories
	on angle		ellipses		Hohmann transfer orbits
UF	almucantar	RT	circles (geometry)	GS	orbits
GS	geometry				. elliptical orbits
	. Euclidean geometry	ellipso	ids		transfer orbits
	. angles (geometry)	DEF	Surfaces whose plane sections (cross		interplanetary transfer orbits
ОТ	elevation angle		s) are all ellipses or circles, or the solid	RT	aphelions
RT	altitude		ed by such a surface. Used for Izsak		apogees
	azimuth	ellipsoi			apsides
	datum (elevation)	UF			circular orbits
	field of view	GS	symmetrical bodies		Earth orbits
	look angles (tracking)		. ellipsoids		Earth-Mars trajectories
	topography	RT	bodies of revolution		Earth-Mercury trajectories
elevatio	ns (drawings)		ellipticity		eccentric orbits
USE	drawings		ogives		ellipticity
002	diamingo				equatorial orbits
elevato	r illusion	allinea	meters		Euler-Lambert equation
GS	psychological effects		Instruments for determining the elliptic-		low Earth orbits
	. illusions		plarized light. Used to measure the thick-		lunar orbits
	optical illusion		f very thin transparent films.		orbital mechanics
	elevator illusion	GS	measuring instruments		PAS
RT	visual perception	as	. optical measuring instruments		perigees
	·		ellipsometers		perihelions
elevato	rs (control surfaces)		optical equipment		planetary orbits
GS	airfoils		. optical measuring instruments		polar orbits
	elevators (control surfaces)		ellipsometers		satellite orbits
	control surfaces	RT	ellipsometry		solar orbits
	. elevators (control surfaces)		photometers		spacecraft orbits
RT	ailerons		polarimeters	allintiaa	l pleames
0	o control		F		I plasmas
	elevons	-11:		DEF	Confined non-circular plasmas.
	horizontal tail surfaces	ellipso	•	GS	particles
	hydrofoils	'	ded December 1989)		. charged particles
	stabilizers (fluid dynamics)	RT	dimensional measurement		energetic particles
0	surfaces		ellipsometers		plasmas (physics) elliptical plasmas
	tabs (control surfaces)		ellipticity film thickness		. corpuscular radiation
	tail assemblies		∞ measurement		energetic particles
	tail surfaces		optical measurement		plasmas (physics)
elevato	rs (lifts)		polarized light		elliptical plasmas
GS			polarized light	RT	magnetohydrodynamic stability
ao	. space elevators				plasma control
RT	conveyors		differential equations		toroidal plasmas
	escalators	GS	analysis (mathematics)		toroidal pidomao
0	o jacks		. real variables	elliptica	l polarization
	o lifts		differential equations		The polarization of a wave radiated by
	winches		partial differential equations		ric vector rotating in a plane and simul-
	Willows		elliptic differential equations		ly varying in amplitude so as to describe
elevons	1		Monge-Ampere equation	an ellips	, , , , ,
GS	airfoils	RT	∞ equations		polarization (waves)
	. elevons		half spaces		elliptical polarization
	control surfaces		maximum principle	RT	circular polarization
	. elevons				magnetoionics
RT	ailerons	elliptic	functions		-
	elevators (control surfaces)	UF	elliptic integrals	ellipticit	ty
	lateral control	GS	analysis (mathematics)		The amount by which a spheroid dif-
	tabs (control surfaces)		. complex variables	fers fror	n a circle, calculated by dividing the
	•		meromorphic functions	differenc	e in the length of the axes by the length
elimina	tion		elliptic functions		ajor axis.
GS	elimination		functions (mathematics)	GS	shapes
	. deletion		meromorphic functions		ellipticity
RT	attenuation		elliptic functions	RT	eccentricity
	cancellation	RT	Jacobi integral		ellipsoids

ellipsometry	. computers	AEPS
elliptical orbits	. embedded computer systems	RT Assured Crew Return Vehicle
flattening	airborne/spaceborne computers	environmental control
oblate spheroids	RT Ada (programming language)	escape capsules
•	" " " " " " " " " " " " " " " " " " " "	floats
elongation	embedding	high altitude breathing
RT angles (geometry)	RT acceleration protection	medical equipment
deformation	encapsulating	oxygen supply equipment
ductility	insertion	portable life support systems
eccentricity		pressurized cabins
expansion	embolisms	protective clothing
mechanical properties	DEF Large amounts of air in the blood	safety
plastic deformation	stream which, when reaching the heart, cause it	safety devices
stretching	to fail; small amounts are resorbed and cause no	survival equipment
superplasticity	symptoms.	∞ systems
tensile deformation	GS embolisms	∞ systems
tensile deformation tensile strength	. aeroembolism	emergency locator transmitters
terisile strength	. fat embolisms	DEF Aircraft distress signal equipment w
elution	RT blood vessels	a radio beacon on a specific emergency f
UF elutriation	clotting	quency and used for locating downed aircra
	coagulation	The set is activated by the impact of the cras
	infarction	
extraction	IIIIdioloff	GS transmitters
flushing	embossing	. emergency locator transmitters
leaching	DEF Raising in relief on a surface.	omorging
purification	RT braille	emerging
∞ separation	ni bialile	RT emission
washing	embrittlement	emissivity
		emittance
elutriation	, , , , , , , , , , , , , , , , , , , ,	amianian
USE elution	ness or both, of a material, usually a metal or	emission
	alloy.	UF emanation
elves	GS embrittlement	GS emission
(added January 2000)	. hydrogen embrittlement	. acoustic emission
DEF Transient air glow events observed	RT brittle materials	. exhaust emission
near 90 km, nearly simultaneously with a strong	brittleness	. light emission
cloud-to-ground lightning stroke. They often pre-	degradation	incandescence
cede sprites, which may occur at lower altitudes	time temperature parameter	luminescence
a few milliseconds later. It is believed that elves		bioluminescence
are the result of wave heating by very low	embryology	cathode glow
frequency (VLF) radio pulses emitted by the	RT ∞ biology	cathodoluminescence
lightning discharge current.	diencephalon	chemiluminescence
	differentiation (biology)	
GS atmospheric radiation	embryos	
. sky radiation	fetuses	fluorescence
elves	neuroblasts	laser induced fluorescence
electromagnetic radiation		phosphorescence
. light (visible radiation)	reproduction (biology)	resonance fluorescence
sky radiation	a walan wasa	x ray fluorescence
elves	embryos	lunar luminescence
RT atmospheric electricity	RT eggs	optical resonance
atmospheric ionization	embryology	photoluminescence
cloud-to-ground discharges	fetuses	triboluminescence
lightning	seeds	x ray fluorescence
sprites (atmospheric physics)	zygotes	shock wave luminescence
thunderstorms		sonoluminescence
thunderstorms	emerald	spacecraft glow
a mail	USE <b>beryl</b>	thermoluminescence
e-mail		
(added April 2000)	emergencies	. microwave emission
USE electronic mail	RT accidents	. particle emission
	disasters	electron emission
emanation	fail-safe systems	field emission
USE emission	•	photoelectric emission
	emergency breathing techniques	secondary emission
embedded atom method	RT ∞ breathing	ion emission
(added February 1998)	∞ methodology	neutron emission
DEF A semiempirical calculation method	pressure breathing	thermionic emission
developed by Daw and Baskes for determining	respirators	. photoionization
the energetics of atoms in a bulk environment.	resuscitation	. radio emission
The original form of the method was based on		CN emission
density functional theory and was intended pri-	emergency landing	hydroxyl emission
marily for tight-packed transition metals. More	(added March 2002)	radio bursts
recent modifications have extended the applica-	DEF Unscheduled aircraft or spacecraft	solar radio bursts
bility of the method to a large number of ele-	landing necessitated by an unexpected prob-	type 2 bursts
ments in the periodic table.	lem.	type 3 bursts
UF EAM (physical chemistry)	GS landing	type 3 bursts
MEAM (physical chemistry)	3	type 4 bursts
modified embedded atom method	. emergency landing	solar radio emission
	RT abort trajectories	solar radio emission
•	aircraft accidents	
crystal defects	aircraft landing	type 2 bursts
grain boundaries	aircraft safety	type 3 bursts
interatomic forces	crash landing	type 4 bursts
metals	engine failure	type 5 bursts
∞ methodology	flight safety	. self sustained emission
molecular dynamics	hard landing	. spectral emission
potential energy	spacecraft landing	. spontaneous emission
. 57	- p	. stimulated emission
embedded computer systems	emergency life sustaining systems	. thermal emission
DEF Computer systems physically incorpo-	GS support systems	thermionic emission
rated into larger systems whose primary func-	. life support systems	. ultraviolet emission
tion is not data processing.	emergency life sustaining	. water masers
GS data processing equipment	systems	RT airglow

atomic recombination	has an optically smooth surface. Used for pho-	RT occupational diseases
bursts	toemissivity.	oodapanona diodaoo
decay	UF photoemissivity	employee relations
∞ discharge	GS thermodynamic properties	RT ∞ cooperation
efflux	. thermophysical properties	human relations
ejection	emissivity	personnel
emerging	RT black body radiation	personnel development
emitters	brightness	personnel management
excitation	emerging	position (title)
ionizing radiation	emittance	production management
irradiation	hohlraums	retirement
nuclear reactions	incandescence	wage surveys
pair production	luminosity	
quantum theory	nongray atmospheres	employment
∞ radiation	nongray gas	RT personnel selection
radioactive decay	optical measurement	∞ tests
radioactivity	radiance	
releasing	radiant flux density	emptying
selection rules (nuclear physics)	Stefan-Boltzmann law	RT disposal
	surface properties	dumping
sputtering		ejection
	temperature	expulsion
emission spectra	thermal emission	expulsion bladders
SN (LIMITED TO ELECTROMAGNETIC		•
RADIATION OF ANY WAVELENGTH EMITTED FROM EXCITED	emissographs	jettisoning
EMITTED FROM EXCITED  MATTEREXCLUDES PARTICLE	USE actinometers	materials handling
SPECTRA)	recording instruments	releasing
DEF The spectra of wavelengths and rela-	ŭ	removal
tive intensities of electromagnetic radiation emit-	emittance	spilling
ted by a given radiator. Each radiating sub-		spreading
stance has a unique, characteristic emission	RT emerging	unloading
	emissivity	· ·
spectrum, just as every medium of transmission	flux (rate)	EMR 6050 computer
has its individual absorption spectrum.	luminosity	GS data processing equipment
GS spectra	luminous intensity	. computers
. radiation spectra	optical properties	digital computers
emission spectra	radiance	EMR 6050 computer
RT absorption spectra	radiant flux density	LININ 0030 Computer
atomic recombination	spectral emission	omulaiana
Balmer series	thermodynamic properties	emulsions
blue shift		DEF Suspensions of fine particle or glob
continuous radiation		ules of one or more liquids in another liquid.
D lines	emitters	GS mixtures
electromagnetic spectra	GS emitters	. dispersions
electron spectroscopy	. thermionic cathodes	emulsions
	. thermionic emitters	photographic emulsions
electronic spectra	RT electron emission	nuclear emulsions
flame spectroscopy	emission	RT Brownian movements
gamma ray spectra	semiconductors (materials)	colloids
gamma rays	thermophotovoltaic conversion	slurries
H alpha line		solutions
H beta line		Solutions
H gamma line	emotional factors	anamala
H II regions	RT angina pectoris	enamels
H lines	detachment	DEF Thin ceramic coatings, usually of high
hydroxyl emission	disorders	glass content, applied to a substrate, generally
infrared spectra	dithers	metal.
K lines	feedback	GS coatings
	frustration	. enamels
laser-induced breakdown	human reactions	finishes
spectroscopy	moods	. enamels
line spectra	panic	RT porcelain
Lyman spectra	phobias	'
molecular spectra	psychological factors	enantiomeric compounds
molecular spectroscopy	psychology	(added August 1998)
nuclear radiation		USE enantiomers
optical emission spectroscopy	sensory feedback	OOL CHAINGINGS
optical transition	sensory stimulation	enantiomers
Paschen series		
photoluminescent bands	emotions	(added August 1998)
plasma spectra	RT ∞ depression	DEF Isomeric pairs whose crystalline form
Raman spectra	fear	or molecular structures are non-superimposable
Rydberg series	fear of flying	mirror images.
Schumann-Runge bands	frustration	UF enantiomeric compounds
solar spectra	human behavior	enantiomorphs
	laughing	GS isomers
solar spectrometers	moods	. enantiomers
spectral signatures	panic	RT chirality
spectrum analysis	psychological effects	crystal structure
spontaneous emission		isomorphism
stellar spectra	psychology	molecular structure
Swan bands	sensory feedback	stereochemistry
symbiotic stars		symmetry
ultraviolet emission	EMP (electromagnetism)	oyninou y
ultraviolet spectra	(added May 1997)	anantiamarnha
Vegard-Kaplan bands	USE electromagnetic pulses	enantiomorphs
visible spectrum	· 3 · · · · · · · · ·	(added August 1998)
x ray stars	ampannaga	USE enantiomers
	empennage	
x rays	USE tail assemblies	encapsulated microcircuits
		DEF Microelectronic circuits enclosed in
emissivity	emphysema	plastic.
DEF A property of a material, measured as	GS diseases	GS circuits
the emittance of a specimen of the material that	. respiratory diseases	. integrated circuits
is thick enough to be completely opaque and	emphysema	encapsulated microcircuits
Ondagn to be completely opaque and	p.1,001110	J Japoniaion illiologiioniio

# encapsulating

RT mi	croelectronics		mechanical fingers		corticosteroids
			mechanical hands		aldosterone
encapsulat	ing		robot fingers		hydroxycorticosteroid
GS coa	ating		robot hands		cortisone
. е	ncapsulating	RT «	∞ effectors		glucocorticoids
CO	atings		manipulators		estrogens
. е	ncapsulating		robot arms		hypertensin
	nning		robot dynamics		pituitary hormones
	ectronic packaging		robotics		adrenocorticotropin (ACTH)
	ectrostatic bonding		robots		vasopressins
	nbedding		tactile sensors (robotics)		prostaglandins
	beddings		torque sensors (robotics)		thyroxine
	aterials handling				insulin
	ckaging	end mo	oraines		
	astic coatings	USE	glacial drift		ne systems
	tting compounds			RT	endocrinology
	otective coatings	end pla			glands (anatomy)
	aling	GS	structural members		hormones
she	eaths		. plates (structural members)		mineral metabolism
For a standard			end plates	۰	systems
Enceladus	antallita of Catura arbiting at a mann	RT	anisotropic plates		nalas:
	satellite of Saturn orbiting at a mean		bulkheads	endocri	
	238,000 kilometers.		circular plates	GS	medical science
	lestial bodies		closures	ОТ	. endocrinology
	atural satellites		flat plates	RT	endocrine glands
	icy satellites		shallow shell equations		endocrine systems
	. Enceladus			endoly	nnh
	Saturn satellites		gered species	GS	•
	. Enceladus		Living organisms (except plants)	do	body fluids
RI Sa	turn (planet)		populations have diminished to such low	RT	. endolymph
	-		that survival may require extraordinary	ΠI	ear
encephaliti			vation procedures. Changes in size and	endoni	asmic reticulum
	seases		of the ecology are considered the cause	GS	organelles
	ncephalitis cterial diseases		possible extinction of some species.	ao	. endoplasmic reticulum
		RT	animals		sarcoplasmic reticulum
bra			birds	RT	cells (biology)
VII	al diseases		ecology		cytoplasm
Encke com	net		ecosystems		Суюріазіті
	very faint comet with a periodicity of		habitats	endosc	opes
	which is the shortest of any known		pollution	UF	borescopes
comet.	which is the shortest of any known		toxicity	GS	medical equipment
	lestial bodies		wildlife		. endoscopes
	omets				optical equipment
	Encke comet		vour (orbiter)		. endoscopes
	omet Nucleus Tour		led June 1989)	RT	inspection
111 00	inet Nucleus Tour	UF	Space Shuttle Orbiter 105		in operation
Encke met	hod	GS	manned spacecraft	endothe	elium
	ethodology		. space shuttles	GS	tissues (biology)
111 1110	outodology		Space Shuttle orbiters		. endothelium
enclosure			Endeavour (orbiter)	RT	blood vessels
RT ∞ cas	sina		reentry vehicles		cells (biology)
	usings		. recoverable spacecraft		377
	ckaging		reusable spacecraft	endoth	ermic fuels
	3 3		space shuttles	GS	fuels
enclosures	<b>;</b>		Space Shuttle orbiters		. chemical fuels
RT air	locks	DT	Endeavour (orbiter)		endothermic fuels
ast	teroid capture	RT	Challenger (Orbiter)	RT	cryogenic rocket propellants
∞ ba	rriers		∞ spacecraft		double base propellants
bio	paks	a malfilua			gaseous rocket propellants
clo	sures	endfire			hydrocarbon fuels
COI	mpartments	GS	arrays		propellant decomposition
∞ COI	ntainers		. antenna arrays		
CO	verings		linear arrays endfire arrays		ermic reactions
do	ghouses (electronics)			GS	chemical reactions
	velopes	RT	Yagi antennas backfire antennas		endothermic reactions
	usings	пі	directional antennas	RT	association reactions
∞ pe	ns		directional antennas		exothermic reactions
pe	rforated shells	endocr	ine glands		heat sinks
pre	essure chambers		anatomy		pyrolysis
pro	otectors	ao	glands (anatomy)		thermal decomposition
	oms		endocrine glands		-1
	fety devices		adrenal gland	endoto	
	ells (structural forms)		gonads	GS	poisons
	ielding		ovaries		. endotoxins
	ipyards		testes		toxins and antitoxins
wa	IIIS		hypothalamus	RT	. endotoxins
anas -l-			pancreas	N I	bacteriology
encoders	doro		parathyroid gland		toxicology
USE co	uers		pineal gland	endrin	
anaadin ~			pitietar giarid	GS	epoxy compounds
encoding	dina		thymus gland	GS	. endrin
USE co	aing		thyroid gland		organic compounds
encounters		RT	endocrinology		. cyclic compounds
encounters RT cra		111	estrogens		heterocyclic compounds
			301.090110		endrin
SC	attering	endoc	ine secretions	RT	insecticides
end effecto	ors	GS	secretions	ΠI	ii isootiolues
	gers (robotics)	40	. endocrine secretions	end-to-	end data systems
	nds (robotics)		hormones	DEF	Comprehensive data systems which
i i a	1.000.00/			20	promonero data dybitomo Willon

demonst	rate the processing of sensor data to		nonuniform plasmas			space commercialization
	thus reducing data fragmentation.		oxygen plasma			
GS	end-to-end data systems		rarefied plasmas	∞	energy	
	. needs (data system)		relativistic plasmas		SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS
RT ∞	data		rotating plasmas			RECOMMENDEDCONSULT THE TERMS
	data acquisition		semiconductor plasmas		DEF	LISTED BELOW) Any quantity with dimensions which
	data processing		space plasmas			represented as mass times length
	data systems		solar wind			divided by time squared.
∞	systems		stellar winds		RT	activation energy
			dusty plasmas		111	Bernstein energy principle
endurar	nce		spherical plasmas			binding energy
SN	(USE OF A MORE SPECIFIC TERM IS		thermal plasmas			
	RECOMMENDEDCONSULT THE TERMS		toroidal plasmas			chemical energy
RT	LISTED BELOW) durability		. corpuscular radiation			commercial energy
	fatigue (biology)		energetic particles			dark energy
	fatique (materials)		electrons			domestic energy
	human performance		conduction electrons			electron energy
	human tolerances		free electrons			energy conservation
	numan tolerances		high energy electrons			energy conversion efficiency
nemy r	personnel		relativistic electron beams			energy of formation
	personnel		hot electrons			enthalpy
ao	. enemy personnel					entropy
DT	armed forces (foreign)		N electrons			exergy
пі	armed forces (foreign)		negatrons			flux (rate)
Energeti	c Particle Explorer A		photoelectrons			flux density
	Explorer 12 satellite		pi-electrons			free energy
USE	Explorer 12 Satellite		polarons			gravitational binding energy
Enoranti	a Partiala Evalorar P		solar electrons			heat
	c Particle Explorer B		nuclei (nuclear physics)			hydrogen-based energy
USE	Explorer 14 satellite		alpha particles			industrial energy
Encres	a Partiala Evplorar C		deuterons			interfacial energy
_	c Particle Explorer C		even-even nuclei			internal energy
USE	Explorer 15 satellite		heavy nuclei			kinetic energy
	5 5 . 5		hypernuclei			lattice energy
_	c Particle Explorer D		odd-even nuclei			0,
USE	Explorer 26 satellite		odd-odd nuclei			molecular energy levels
			tritons			nuclear binding energy
	c particles					particle energy
DEF	Charged particles having energies		plasmas (physics)			potential energy
equaling	or exceeding a hundred MeV		argon plasma			proton energy
GS	particles		beta particles			radiant heating
	. charged particles		boundary layer plasmas			seismic energy
	energetic particles		cold plasmas			solar energy
	electrons		collisional plasmas			solar total energy systems
	conduction electrons		strongly coupled plasmas			stacking fault energy
	free electrons		collisionless plasmas			strain energy methods
	high energy electrons		cosmic plasma			surface energy
	relativistic electron beams		cylindrical plasmas			thermal energy
			dense plasmas			thermonuclear power generation
	hot electrons		plasma focus			transportation energy
	N electrons		strongly coupled plasmas			
	negatrons		electron plasma			waterwave energy
	photoelectrons		electron-positron plasmas			work
	pi-electrons		elliptical plasmas			
	polarons					absorption
	solar electrons		helium plasma high temperature plasmas			nonreflection
	nuclei (nuclear physics)				GS	energy absorption
	alpha particles		hydrogen plasma			. moderation (energy absorption)
	deuterons		deuterium plasma			thermalization (energy absorption)
	even-even nuclei		laser plasmas			neutron thermalization
	heavy nuclei		metallic plasmas			. radiation absorption
	hypernuclei		cesium plasma			. electromagnetic absorption
	odd-even nuclei		uranium plasmas			auroral absorption
	odd-odd nuclei		microplasmas			gamma ray absorption
	tritons		nitrogen plasma			infrared absorption
	plasmas (physics)		nonequilibrium plasmas			microwave absorption
	argon plasma		nonuniform plasmas			multiphoton absorption
	beta particles		oxygen plasma			photoabsorption
			rarefied plasmas			polar cap absorption
	boundary layer plasmas		relativistic plasmas			ultraviolet absorption
	cold plasmas		rotating plasmas			
	collisional plasmas		semiconductor plasmas			x ray absorption
	strongly coupled plasmas		space plasmas			molecular absorption
	collisionless plasmas		solar wind			self absorption
	cosmic plasma					. thermal absorption
	cylindrical plasmas		stellar winds			polar cap absorption
	dense plasmas		dusty plasmas		RT	absorbers (materials)
	plasma focus		spherical plasmas		00	absorption
	strongly coupled plasmas		thermal plasmas			damping
	electron plasma		toroidal plasmas			energy conversion efficiency
	electron-positron plasmas	RT	Advanced Composition Explorer			gamma ray absorptiometry
	elliptical plasmas		galactic cosmic rays			heat sinks
	helium plasma		radio jets (astronomy)			infrared radiation
			solar cosmic rays			light (visible radiation)
	high temperature plasmas		-9-			
	hydrogen plasma					photon absorptiometry
	deuterium plasma	_				shock absorbers
	laser plasmas		va launch vehicle			sound transmission
	metallic plasmas		ed April 1995)			vibration isolators
	cesium plasma	GS	launch vehicles			
	uranium plasmas		. heavy lift launch vehicles		energy	absorption films
	microplasmas		Energiya launch vehicle			thin films
	nitrogen plasma	RT	international cooperation			. energy absorption films
	nonequilibrium plasmas		Russian Space Program		RT ~	absorption
			acciair opaco i rogiairi		~	2200.ption

aluminum oxides coatings direct power generators Golay detector cells monomolecular films photoelectric cells photothermal conversion selective surfaces semiconducting films thermochromic coatings energy bands energy bands . Bloch band conduction bands forbidden bands RT ∞ bands electronic structure excitons laser windows quantum wells

### energy budgets

Quantitative descriptions of the total energy exchange into and out of a given physical or ecological system; may include radiation heat, kinetic, and biological process.

#### energy budgets

. Earth radiation budget

. heat budget

spectral bands

windows (intervals)

. atmospheric heat budget

atmospheric energy sources

∞ budgets exergy

#### energy conservation

GS conservation

. energy conservation

RT ∞ energy energy policy

exergy

power factor controllers residential energy resource allocation

resources thermochromic coatings

# energy consumption

GS

consumption
energy consumption
coal utilization

commercial energy domestic energy

∞ energy sources fuel consumption industrial energy

### energy conversion

DEF The change of a working substance or natural power into a more useable form of energy such as electricity or mechanical motion.

# GS energy conversion

. biomass energy production

. geothermal energy conversion

. ocean thermal energy conversion

. satellite solar energy conversion

. solar energy conversion

. . photothermal conversion

. thermophotovoltaic conversion

. . photovoltaic conversion

... thermophotovoltaic conversion

. . solar total energy systems

waterwave energy conversion

cogeneration commercial energy

∞ conversion

direct power generators

domestic energy geothermal energy extraction

hydrogen production hydrothermal systems

industrial energy integrated energy systems

laser power beaming lianite

organic wastes (fuel conversion)

power beaming power conditioning satellite solar power stations solar ponds (heat storage) solar sea power plants space industrialization transportation energy waste energy utilization

#### energy conversion efficiency

. energy conversion efficiency

carrier transport (solid state)

∞ conversion

direct power generators

∞ energy

energy absorption

engines exergy fuel cells

generators

motors open circuit voltage photothermal conversion

power conditioning power factor controllers quantum efficiency

Redox cells

spectrophotovoltaics

thermophotovoltaic conversion

tide powered generators transducers

volumetric efficiency waterwave energy conversion

energy converters
USE direct power generators

energy density USE flux density

energy dissipation

DEF The difference between energy input and output as a result of transfer of energy between two points. Used for energy loss.

UF energy loss
GS dissipation

. energy dissipation dielectric loss exergy

friction insertion loss

Lagrange similarity hypothesis

losses nonadiabatic theory

∞ power loss

traveling charge

#### energy distribution

distribution (property)

energy distribution

. spectral energy distribution

equipartition theorem flux density

force distribution

integrated energy systems quantum mechanics statistical mechanics

#### Energy Efficiency Transport program

USE ACEE program

energy equipartition

USE equipartition theorem

energy exchange USE energy transfer

### energy gaps (solid state)

A range of forbidden energies in the band theory of solids. Used for bandgap.

bandgap GS gaps

. energy gaps (solid state) band structure of solids

blue shift electronic structure MODFETS modulation doping quantum well lasers quantum wells

solid state

∞ solid state physics

#### energy levels

DEF Any one of different values of energy 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 GS

level (quantity)

# energy levels

- . . atomic energy levels
- . . electron states
- ground state
- . . molecular energy levels . . . intermolecular forces
- ... rotational states
- . . . vibrational states

. yrast state RT atomic excitations

atomic structure electron tunneling

electronic structure excitation

Fermi surfaces molecular excitation nuclear capture

nuclear models

nuclear quadrupole resonance nuclear spin nuclear structure population inversion quantum numbers quantum theory

energy loss

USE energy dissipation

### energy methods

GS structural analysis

Structural analysis
 energy methods
 Bernstein energy principle
 strain energy methods

RT Castigliano variational theorem matrices (mathematics)

 $\infty \, \text{methodology}$ stress analysis

# energy of formation

GS chemical energy

. energy of formation

RT ∞ energy free energy

molecular energy levels

# energy policy GS policies

. energy policy abundance

availability

coal

coal gasification coal liquefaction

coal utilization conservation crude oil

depletion development

Earth resources ecology economic factors

energy conservation fuel oils

fuels

hydrocarbon fuels land use lignite logistics mining

∞ nuclear energy nuclear fuels

oil exploration oils operating costs pollution

refining renewable energy reserves resource allocation

resources

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

temperature control

thrust control

combined cycle power generation

Earth resources

RT internal combustion engines

∞ primers

# engine starters

stan	ting	RI	descriptive geometry	turbotan engines
engine religh	at (in-flight)		descriptive geometry	Bristol-Siddeley BS 53 engine
USE air		٥	design	CF-700 engine
USE all s	Start		dimensions	convertible fan-shaft engines
engine start	ers		graphic arts	J-97 engine
GS start			layouts	TF-30 engine
			lofting	TF-34 engine
	gine starters		reproduction (copying)	TF-41 engine
RT engi				turboprop engines
	rnal combustion engines	-	ering management	T-34 engine
jet e	engines	GS	management	· · · · · · · · · · · · · · · · · · ·
	a a lab a catacita a		. industrial management	T-38 engine
	ng laboratories		engineering management	T-53 engine
	oratories	RT	allocations	T-55 engine
	gine testing laboratories	۰	budgets	T-56 engine
	facilities		goals	T-63 engine
	gine testing laboratories		manpower	T-64 engine
RT engi	ines		priorities	T-74 engine
			research management	<u>T</u> -76 engine
engine tests			resource allocation	T-78 engine
	ine tests		resources	turboramjet engines
	ld flow tests			. aircraft engines
	efiring tests	engine	ering test reactors	convertible fan-shaft engines
	ace electric rocket tests		ETR (reactors)	helicopter engines
	atic firing	GS	nuclear reactors	J-52 engine
	raft runup		. engineering test reactors	J-58 engine
altitu	ude tests	RT	reactor design	J-97 engine
capt	tive tests		reactor technology	T-34 engine
fligh	t tests		3,	T-38 engine
fuel	tests	Engine	ering Test Satellites	T-55 engine
fulls	scale tests	(add	ed October 1997)	T-63 engine
grou	und tests	SN	(LIMITED TO THE JAPANESE ETS	T-76 engine
lubri	icant tests		SERIES OF SATELLITES)	T-78 engine
miss	sile tests	UF	ETS series satellites	TF-30 engine
	destructive tests	GS	artificial satellites	TF-34 engine
	aunch tests		. Engineering Test Satellites	TF-41 engine
	pellant tests		Japanese spacecraft	variable cycle engines
	pulsive efficiency		. Engineering Test Satellites	variable stream control engines
	set engine design			. external combustion engines
	set test facilities	engine	ers	
	RT 1 spacecraft	(add	ed November 1992)	Stirling engines
	RT 2 spacecraft	ĠS	manpower	. internal combustion engines
	ic tests		engineers	diesel engines
			personnel	gas turbine engines
	ing engines		. engineers	hydrogen engines
	firing	RT	awards	jet engines
	stands		scientists	T-58 engine
	ing time			ramjet engines
∞ tests		engines	<b>;</b>	integral rocket ramjets
VIDI	ation tests	SN	(LIMITED TO MACHINES WITH	low volume ramjet engines
			SELF-CONTAINED POWER SOURCES	pulsejet engines
∞ engineering			FOR CONTINUOUS OPERATIONSEE	supersonic combustion ramjet
SN (USI	E OF A MORE SPECIFIC TERM IS COMMENDEDCONSULT THE TERMS		MOTORS FOR MACHINES UTILIZING EXTERNAL POWER SOURCES FOR	engines
	ED BELOW)		NORMAL OPERATION)	turboramjet engines
REC		DEE	Machines or apparetus that convert	
REC LIST		DEF	Machines or apparatus that convert	turbojet engines
REC LIST DEF The	useful application of scientific or		especially heat energy, into work. Used	
REC LIST DEF The other system		energy,		turbojet engines
REC LIST DEF The other system matter and th	e useful application of scientific or atic knowledge of the properties of the sources of energy in nature.	energy,	especially heat energy, into work. Used	turbojet engines Bristol-Siddeley Olympus 593
DEF The other system matter and the RT aero	e useful application of scientific or atic knowledge of the properties of the sources of energy in nature. Onautical engineering	energy, for gas	especially heat energy, into work. Used generator engines.	turbojet engines Bristol-Siddeley Olympus 593 engine
DEF The other system matter and the RT aero aero	e useful application of scientific or atic knowledge of the properties of ne sources of energy in nature. onautical engineering ospace engineering	energy, for gas UF	especially heat energy, into work. Used generator engines.  gas generator engines	turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine
REC LIST DEF The other system matter and th RT aero aero airor	e useful application of scientific or atic knowledge of the properties of ne sources of energy in nature. onautical engineering ospace engineering raft production costs	energy, for gas UF	especially heat energy, into work. Used generator engines. gas generator engines engines . air breathing engines	turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine ducted fan engines J-33 engine
REC LIST DEF The other system matter and th RT aero aero aero airo anth	e useful application of scientific or atic knowledge of the properties of ne sources of energy in nature. onautical engineering ospace engineering raft production costs propometry	energy, for gas UF	especially heat energy, into work. Used generator engines. gas generator engines engines . air breathing engines gas turbine engines	turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine ducted fan engines J-33 engine J-34 engine
DEF The other system matter and the RT aerc aerc aerc aritch bioe	e useful application of scientific or atic knowledge of the properties of ne sources of energy in nature. onautical engineering ospace engineering raft production costs propometry engineering	energy, for gas UF	especially heat energy, into work. Used generator engines. gas generator engines engines . air breathing engines	<ul> <li>turbojet engines</li> <li>Bristol-Siddeley Olympus 593 engine</li> <li>Bristol-Siddeley Viper engine</li> <li>ducted fan engines</li> <li>J-33 engine</li> <li>J-34 engine</li> <li>J-47 engine</li> </ul>
DEF The other system matter and the RT aero airou anthe bioe bioir	e useful application of scientific or atic knowledge of the properties of ne sources of energy in nature. onautical engineering ospace engineering raft production costs propometry engineering enstrumentation	energy, for gas UF	especially heat energy, into work. Used generator engines. gas generator engines engines . air breathing engines gas turbine engines hydrogen engines jet engines	<ul> <li>turbojet engines</li> <li>Bristol-Siddeley Olympus 593 engine</li> <li>Bristol-Siddeley Viper engine</li> <li>ducted fan engines</li> <li>J-33 engine</li> <li>J-47 engine</li> <li>J-52 engine</li> </ul>
PEC LIST DEF The other system matter and th RT aerc aerc airci anth bioe bioir bion	e useful application of scientific or atic knowledge of the properties of ne sources of energy in nature. conautical engineering paspace engineering raft production costs propometry engineering enstrumentation netrics	energy, for gas UF	especially heat energy, into work. Used generator engines. gas generator engines engines air breathing engines . gas turbine engines . hydrogen engines . jet engines . T-58 engine	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
DEF The other system matter and the RT aerc aircr anth bioe bioir bion biote	e useful application of scientific or atic knowledge of the properties of ne sources of energy in nature. conautical engineering paspace engineering raft production costs propometry engineering enstrumentation netrics elemetry	energy, for gas UF	especially heat energy, into work. Used generator engines. gas generator engines engines air breathing engines gas turbine engines hydrogen engines jet engines T-58 engine Tamjet 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
DEF The other system matter and the rand the ran	e useful application of scientific or atic knowledge of the properties of ne sources of energy in nature. conautical engineering papace engineering raft production costs propometry engineering natrumentation netrics elemetry y measurement (biology)	energy, for gas UF	especially heat energy, into work. Used generator engines. gas generator engines engines air breathing engines . gas turbine engines . hydrogen engines . jet engines . T-58 engine . ramjet engines . integral rocket ramjets	turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine User ducted fan engines J-33 engine J-34 engine J-47 engine J-52 engine J-57 engine J-58 engine J-58 engine J-65 engine
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turboramjet engines	retrorocket engines	T-63 engine T-64 engine
helicopter engines rotary engines	BE-3 engine reusable rocket engines	T-74 engine
Wankel engines	solid propellant rocket engines	T-76 engine
. JATO engines	Algol engine	T-78 engine
. Marquardt R4D engine	apogee boost motors	turboramjet engines
. piston engines	ASROC engine	RT auxiliary propulsion carburetors
diesel engines	Hercules engine	combustion chambers
free-piston engines	M-46 engine	displacement
Stirling engines	M-55 engine	energy conversion efficiency
. rocket engines booster rocket engines	M-56 engine M-57 engine	engine starters
AJ-10 engine	Nike booster rocket engines	engine testing laboratories 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	fuel systems
LR-87-AJ-5 engine M-1 engine	Advanced Solid Rocket Motor (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 P-1 engine	X-254 engine X-258 engines	missile components
rocket engine 9KS-11000	X-258-B1 engine	motors
Space Shuttle Boosters	X-259 engine	∞ power plants propulsion
Advanced Solid Rocket Motor	XM-33 engine	reaction products
(STS)	sustainer rocket engines	shutdowns
X-405 engine ducted rocket engines	turborocket engines ullage rocket engines	speed regulators
electric rocket engines	upper stage rocket engines	supersonic combustion
electrostatic engines	Vernier engines	thermodynamic efficiency thermodynamics
ion engines	control rockets	transportation energy
cesium engines	SYNCOM apogee engines	turbines
Hall thrusters	aerospike engines	∞ vehicles
mercury ion engines RIT engines	rocket-based combined-cycle engines	
electrothermal engines	. torpedo engines	England GS nations
arc jet engines	turborocket engines	. United Kingdom
pulsed jet engines	ullage rocket engines	England
resistojet engines	Vernier engines	RT Europe
plasma engines magnetoplasmadynamic	control rockets SYNCOM apogee engines	
thrusters	. turbine engines	English Channel RT Atlantic Ocean
pulsed inductive thrusters	gas turbine engines	RT Atlantic Ocean France
pulsed plasma thrusters	hydrogen engines	North Sea
two stage plasma engines	jet engines	United Kingdom
VASIMR (propulsion system)	T-58 engine	
HEUS rocket engines hot water rocket engines	ramjet engines integral rocket ramjets	English language GS languages
hybrid propellant rocket engines	low volume ramjet engines	GS languages . <b>English language</b>
lithergol rocket engines	pulsejet engines	RT speech
liquid propellant rocket engines	supersonic combustion ramjet	words (language)
AJ-10 engine	engines	
F-1 rocket engine H-1 engine	turboramjet engines turbojet engines	engraving RT etching
hydrazine engines	Bristol-Siddeley Olympus 593	printing
hydrogen oxygen engines	engine	h
J-2 engine	Bristol-Siddeley Viper engine	enhanced vision
M-1 engine	ducted fan engines	(added June 1995)
RL-10-A-1 engine RL-10-A-3 engine	J-33 engine J-34 engine	UF EVS synthetic vision
liquid air cycle engines	J-47 engine	GS vision
LR-62-RM-2 engine	J-52 engine	. enhanced vision
LR-87-AJ-5 engine	J-57 engine	RT aircraft landing
LR-91-AJ-5 engine MA-2 engine	J-58 engine	landing aids
MA-3 engine	J-65 engine J-69-T-25 engine	multisensor applications night vision
MA-5 engine	J-71 engine	visibility
oxygen-hydrocarbon rocket	J-73 engine	,
engines	J-75 engine	enhancement
RL-10 engines	J-79 engine	USE augmentation
RL-10-A-1 engine RL-10-A-3 engine	J-85 engine J-93 engine	enlarging
pulse detonation engines	RA-28 engine	USE <b>expansion</b>
Space Shuttle Main Engine	turbofan engines	•
X-405 engine	Bristol-Siddeley BS 53 engine	ENO schemes
XLR-99 engine YLR-91-AJ-1 engine	CF-700 engine convertible fan-shaft engines	USE essentially non-oscillatory schemes
M-100 engine	Convertible fan-shaft engines	SCHEIHES
microrocket engines	TF-30 engine	enrichment
Orbit Maneuvering Engine (Space	TF-34 engine	GS enrichment
Shuttle)	TF-41 engine	. isotopic enrichment
nozzleless rocket engines	turboprop engines	jet membrane process
nuclear engine for rocket vehicles nuclear ramjet engines	T-34 engine T-38 engine	RT beneficiation concentrating
nuclear racket engines	T-53 engine	purification
=	=	

refining	thermodynamics	pointing control systems
upgrading		space shuttles
	enthalpy-entropy diagrams	Space Transportation System flights
Enrico Fermi atomic power plant	USE Mollier diagram	spacecraft reentry
GS electric power plants . nuclear power plants	entire functions	terminal guidance
Enrico Fermi atomic power plant	UF integral functions	enumeration
nuclear electric power generation	GS analysis (mathematics)	RT counting
. nuclear power plants	. complex variables	lists
Enrico Fermi atomic power plant	analytic functions	number theory
RT breeder reactors	entire functions functions (mathematics)	∞ envelopes
fast nuclear reactors	. analytic functions	SN (USE OF A MORE SPECIFIC TERM IS
liquid metal cooled reactors ∞ power plants	entire functions	RECOMMENDEDCONSULT THE TERMS
~ power plants		LISTED BELOW) RT coverings
Enskog-Chapman theory	entomology	enclosures
USE Chapman-Enskog theory	RT insecticides	flight envelopes
	insects	limits (mathematics)
enstatite	∞ science ∞ zoology	stellar envelopes
GS chalcogenides	20010gy	environment effects
. oxides	entrainment	SN (EFFECTS ON ENVIRONMENT)
pyroxenes	RT aeration	RT air pollution
enstatite	aerosols	coastal ecology
magnesium compounds . <b>enstatite</b>	blowing	coastal water
minerals	Coanda effect	contaminants
. pyroxenes	dispersing	contamination
enstatite	spraying	debris
silicon compounds	suspending (mixing)	deforestation
. silicates	entrances	∞ effects
pyroxenes	RT curtains	environments eutrophication
enstatite	doors	exhaust gases
RT chondrule	intake systems	greenhouse effect
igneous rocks	∞ thresholds	habitats
regolith rocks	transfer tunnels	ice environments
soils		man environment interactions
30113	entrapment	marine biology
enstrophy	RT accumulators confusion	marine environments
USE vorticity	escape (abandonment)	metabolic wastes
<b>,</b>	radiation belts	noise pollution
Enterprise (Orbiter)	tangling	poisons
UF Space Shuttle Orbiter 101	traps	pollution sewage
GS manned spacecraft	·	soil erosion
. space shuttles	entropy	thermal pollution
Space Shuttle orbiters	DEF A measure of the extent to which the	waste disposal
Enterprise (Orbiter)	energy of a system is unavailable.	wastes
reentry vehicles	GS thermodynamic properties	water pollution
. recoverable spacecraft	. <b>entropy</b> RT Crocco method	water quality
reusable spacecraft space shuttles	∞ energy	water resources
Space Shuttle orbiters	enthalpy	wetlands
Enterprise (Orbiter)	exergy	wildlife
RT manned space flight	heat	environment management
∞ spacecraft	maximum entropy method	GS management
	Mollier diagram	. environment management
enthalpy	nonisentropicity	RT conservation
DEF A mathematically defined thermody-	Shannon-Wiener measure	Earth resources
namic function of state. Used for heat content.	tephigrams thermochemistry	environmental cleanup
UF heat content GS heat	thermodynamics	environmental monitoring
. enthalpy	anomiodynamico	land management land use
Gibbs free energy	entropy (statistics)	man environment interactions
heat of dissociation	DEF A factor or quantity that is a function of	resources management
heat of formation	a mechanical system and is equal to the loga-	waste management
heat of solution	rithm of the probability of the particular arrange-	water management
latent heat	ment in that state.	water resources
heat of fusion	GS entropy (statistics)	
heat of vaporization	. maximum entropy method . minimum entropy method	environment models
thermodynamic properties	RT ∞ statistics	GS models
. enthalpy	TTI ** Statistics	. environment models
Gibbs free energy heat of dissociation	∞ entry	RT atmospheric models climate models
heat of dissociation	SN (USE OF A MORE SPECIFIC TERM IS	exobiology
heat of solution	RECOMMENDEDCONSULT THE TERMS	test chambers
latent heat	LISTED BELOW) RT atmospheric entry	tot onamoro
heat of fusion	reentry	environment pollution
heat of vaporization	•	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.
∞ energy	trajectory from initial penetration of the Earth's	GS pollution
entropy	atmosphere until the terminal area guidance is	. environment pollution
free energy Gibbs-Helmholtz equations	activated at an Earth-relative speed (about 2500 fps).	air pollution global air pollution
heat measurement	GS guidance (motion)	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

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

simulation

#### . environment simulation

. . acoustic simulation

. . altitude simulation

. . space environment simulation

. . thermal simulation

... weightlessness simulation

. . . neutral buoyancy simulation

atmospheric entry simulation atmospheric models

environmental tests flight simulation

#### environment simulators

virtual reality

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.

#### ĞS 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)

cleaning GS

environmental cleanup

decontamination environment management environment protection

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

#### environmental control

#### GS environmental control

. 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

# environmental quality

guality GS

environmental quality

weather forecasting

. . 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**

UF 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

environmental temperature

USE ambient temperature

water pollution

### environmental tests

#### GS 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 test chambers

∞ tests thermal cycling tests thermal vacuum tests

vibration tests

### environmental transport

(added March 2005)

DEF The transport of a substance through an environmental medium.

#### GS environmental transport

. pollution transport

### environments

DEF 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

lite designed to provide continuous global measurements including high- and medium-resolution radar and optical images from its . Earth magnetosphere coenzymes . . geomagnetic tail enzymology magnetopause . . magnetosheath Advanced Synthetic Aperture Radar (ASAR) enzymology . extraterrestrial environments and Medium-Resolution Imaging Spectrometer biochemistry ĞS 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 . . lunar environment . Envisat-1 satellite 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 . 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. cytochromes  $\infty$  atmospheres UF **EOSDIS** dehydrogenases coastal ecology GS information systems hexokinase coastal plains EOS data and information system lysozyme 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; nor-. . . papain temperature pepsin mally about 2 to 3 percent of white cells in the thermal pollution blood but tending to decrease during stressful phosphatases vacuum effects situations and thus usable as an index for protease weightlessness . . . renin stress. cells (biology) GS thrombin . blood cells Envisat-1 satellite

... trypsin activation (biology)

catalysts

...leukocytes

(added August 2000)

Polar-orbiting Earth observation satel-

RT cytoplasm RT Saturn (planet) low density research ∞ materials FPF-A epinephrine ∞ matrices The active sympathomimetic hormone Explorer 12 satellite USE matrix materials from the adrenal medulla in most species. It pultrusion FPF-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 FPF-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 intervals, such as daily, and containing other data of interest to astronomers. A publication . . catecholamine . . thermosetting resins . 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 DEF The oriented growth of a crystalline substance on a substrate of the same or differboron-epoxy composites position (location) coatings ent cystalline substance. ephemeris time glass transition temperature growth graphite-epoxy composites The uniform measure of time defined . crystal growth by the laws of dynamics and determined in principle from the orbital motions of the planets, lay-up . . epitaxy . . . atomic layer epitaxy prepregs 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 frequency response phase shift RT ephemerides bipolar transistors universal time crystal lattices signal processing crystal structure epicardium junction transistors anatomy  $\, \, \infty \, \, \, \text{equations} \, \,$ GS . circulatory system laser deposition (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN pulsed laser deposition . . cardiovascular system . . . heart 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. medical science epoxides continuity equation GS USE epoxy compounds convection-diffusion equation epidemiology cubic equations infectious diseases RT 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 epilepsy DEF High strength compositions consisting equations of state RT of epoxy resin and a reinforcing matrix of filaequilibrium equations 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 Euler-Lambert equation **Epimetheus** . polymer matrix composites . . epoxy matrix composites (added July 1995) Faddeev equations boron-epoxy composites A natural satellite of Saturn, orbiting at Falkner-Skan equation . . . graphite-epoxy composites a mean distance of 151,422 kilometers. . Ficks equation celestial bodies aramid fiber composites flow equations GS . natural satellites aramid fibers Fokker-Planck equation . . Saturn satellites Fredholm equations braided composites

fiber orientation

... Epimetheus

Gauss equation

Gibbs adsorption equation Hamilton-Jacobi equation tropical regions inertia principle Gibbs-Helmholtz equations kinematics equators Glimm method Lissajous figures Hamilton-Jacobi equation Mach inertia principle Helmholtz equations moments of inertia Helmholtz vorticity equation motion aftereffects mating such a circle. Hugoniot equation of state spinning unguided rocket trajectory GS equators stability hydrodynamic equations lunar equator hyperbolic differential equations systems stability . magnetic equator identities trajectories RT coordinates inhour equation trajectory analysis rotating spheres integral equations variable mass systems transequatorial propagation kinematic equations von Zeipel method kinetic equations  $\infty$  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 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 Poisson equation equatorial atmosphere 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 atmospheric composition quartic equations stability Rayleigh equations stabilization meteorological parameters reaction-diffusion equations statics middle atmosphere 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 thermodynamics shallow shell equations equatorial electrojet transition points simultaneous equations singular integral equations Stokes-Beltrami equation thermodynamics unsteady state electric current variability . ionospheric currents . . electrojets water balance . equatorial electrojet vlasov equations electricity Volterra equations equilibrium diagrams . atmospheric electricity USE phase diagrams Von Karman equation . . 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 state equations of motion equatorial orbits Inclined orbits with an inclination of ∞ equilibrium zero degrees. The plane of an equatorial orbit contains the equator of the primary body. equilibrium flow GS orbits . equatorial orbits motion equations . stationary orbits equations of motion circular orbits

DEF A set of equations which give information regarding the motion of a body or of a point in space as a function of time when initial position and initial velocity are known. Used for motion equations.

- . Euler equations of motion
- Euler-Lagrange equation
- . kinetic equations
- . . hydrodynamic equations
- . Burnett equations
- ... Helmholtz vorticity equation
- kinematic equations
- . Navier-Stokes equation
- . Reynolds equation

autonomy

Bethe-Salpeter equation celestial mechanics

classical mechanics

computational fluid dynamics

continuity equation control moment gyroscopes

∞ dvnamics

Einstein equations

∞ equations

equilibrium equations

Earth orbits

elliptical orbits

geosynchronous orbits

lunar orbits

orbital mechanics

planetary orbits

polar orbits

satellite orbits

spacecraft orbits

twenty-four hour orbits

# equatorial regions

Areas on or near the Earth's equator; regions between the Tropic of Cancer and the Tropic of Capricorn (23 degrees 27 minutes North or South of the Equator).

regions GS

equatorial regions

RT arid lands Earth surface

The primary great circle of a sphere or spheroid, such as the Earth, perpendicular to the polar axis; or a line resembling or approxi-

the opposing actions, reactions, or velocities of

DEF Gas flow in which energy is constant along streamlines and the composition of the gas at any point is not time dependent. Used for steady state flow.

steady state flow fluid flow UF

GS . gas flow

# . . equilibrium flow

frozen equilibrium flow

shifting equilibrium flow

RT Eyring theory heat transmission

nonequilibrium flow plasma equilibrium quasi-steady states steady flow

equilibrium methods
SN (LIMITED TO STRUCTURAL ANALYSIS)
GS structural analysis

. equilibrium methods

matrix methods RT ∞ methodology

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

spark machining	RT bit error rate	RT Atlas Agena launch vehicles
surface reactions	∞ codes	ERS 18
tribology	coding	GS artificial satellites
valleys	computer programs	. scientific satellites
wave resistance	computer systems programs	Environmental Research Satellites
wear tooto	digital techniques fault detection	ERS 18
wear tests		RT Atlas Agena launch vehicles
weathering	fault tolerance	TTI Alias Ageria laurion veriloles
wind effects	information theory	ERS-1 (ESA satellite)
erosive burning	parity	DEF A European Space Agency remote
DEF Combustion of solid propellants ac-	proving	sensing satellite designed to monitor global
companied with nonsteady, high velocity flows of	quality control	oceans, coastal zones and polar regions. It is
product gases across burning propellant sur-	redundancy redundancy encoding	scheduled for launch on an Ariane 4 expendable
aces.	redundancy encoding	launch vehicle in 1990.
GS combustion		GS artificial satellites
. erosive burning	error functions	. ESA satellites
RT burnout	GS functions (mathematics)	. ERS-1 (ESA satellite)
combustion temperature	error functions	. maritime satellites
deterioration	RT statistical distributions	ERS-1 (ESA satellite)
erosion		ESA spacecraft
exhaust gases		. ESA satellites
fuel combustion	error signals	ERS-1 (ESA satellite)
hypersonic combustion	DEF Voltages the magnitude of which are	RT European Space Agency
oxidation	proportional to the difference between an actual	The European Opaco Agency
pitting	and a desired position.	ERS-2 (esa satellite)
propellant combustion	RT automatic repeat request	(added February 1996)
smoldering	bit error rate	GS artificial satellites
solid propellant combustion	comparators	. ESA satellites
tribology	compensators	ERS-2 (esa satellite)
tribology	differential amplifiers	ESA spacecraft
error analysis	discriminators	. ESA satellites
GS analysis (mathematics)	errors	ERS-2 (esa satellite)
. numerical analysis	false alarms	RT Envisat-1 satellite
error analysis	loop transfer recovery	European Space Agency
RT ∞ analyzing	phase error	, , ,
∞ applications of mathematics	position errors	ERTS
backpropagation (artificial intelligence)	range errors	USE Landsat satellites
bit error rate	signal mixing	
boresight error	∞ signals	ERTS-A
censored data (mathematics)	slewing	USE Landsat 1
fault tolerance		
ill-conditioned problems	errors	ERTS-B
(mathematics)	DEF In mathematics, the difference be-	USE Landsat 2
mean square values	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	5070.0
root-mean-square errors	. instrument errors	ERTS-D
sensitivity analysis	. phase error	USE Landsat 4
systematic errors	. pilot error	ERTS-E
	. position errors	USE Landsat E
error band	boresight error	OSL Lanusat L
USE accuracy	. random errors	ERTS-F
	. range errors	USE Landsat F
error correcting codes	. root-mean-square errors	OOL Landsat I
DEF Codes in which each telegraph or data	systematic errors	eruptions (volcanology)
signal conforms to specific rules of construction	. truncation errors	(added October 2001)
so that departures from this construction in the	. velocity errors	USE volcanic eruptions
eceived signals can be automatically detected,	RT accuracy	ool voiceme orapiono
and permits the automatic correction, at the	bias	erythrocytes
eceived terminal, of some or all of the errors.	∞ compensation	UF red blood cells
Note: Such codes require more signal elements	computer program integrity	GS cells (biology)
han are necessary to convey the basic informa-	confidence	. blood cells
ion.	consistency	erythrocytes
GS error correcting codes	correction	reticulocytes
. Reed-Solomon codes	drift (instrumentation)	RT blood cell count
RT automatic repeat request	dynamic characteristics	bone marrow
bit error rate ∞ codes	error signals	carboxyhemoglobin
	hysteresis	hematocrit
concatenated codes	linearity	hematocrit ratio
digital techniques	malfunctions	hemoglobin
redundancy encoding	median (statistics)	hemolysis
error correcting devices	optical correction procedure	leukocytes
RT BCH codes	precision	monocytes
correction	quality control	oxyhemoglobin
∞ devices	range (extremes)	
instrument compensation	reliability	ES-3A aircraft
redundancy encoding	resolution	USE S-3 aircraft
rounidancy enoughing	response bias	504
error detection codes	∞ scaling	ESA
DEF Codes in which each expression con-	∞ tests	USE European Space Agency
orms to specific rules of construction, so that if	tolerances (mechanics)	ECA catallitae
certain errors occur in an expression the result-		ESA satellites
ng expression will not conform to the rules of	ERS 17	SN (EUROPEAN SPACE AGENCY SATELLITES)
construction and thus the presence of errors is	GS artificial satellites	UF ESRO satellites
detected. Note: Such codes require more signal	. scientific satellites	European Space Research
elements than are necessary to convey the	Environmental Research Satellites	Organization sat
undamental information.	ERS 17	GS artificial satellites

fundamental information.

. 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	
ESRO 1 satellite	Envisat-1 satellite	escape velocity
ESRO 2 satellite	XMM-Newton telescope	DEF The radial speed which a particle or
ESRO 4 satellite	. Giotto mission	larger body must attain in order to escape from
European Communications Satellite	. Huygens probe RT ∞ spacecraft	the gravitational field of a planet, satellite, or star. Used for parabolic velocity.
Exosat satellite		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)	RT ∞ escape
Infrared Space Observatory (ISO)	ladders	high speed
L-Sat	∞ lifts	hyperbolic trajectories
Magellan ultraviolet astronomy	stairways	∞ hypervelocity
satellite	•	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	velocity errors
. OTS (ESA)	LISTED BELOW) DEF Of a particle or larger body: to achieve	volcony choic
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		relatively steep slopes facing in one general
	body nor to orbit it.	direction, breaking the continuity of the land by
. XMM-Newton telescope	RT escape (abandonment)	separating two level or gently sloping surfaces,
ESA spacecraft	escape capsules	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	•
ERS-1 (ESA satellite)	leakage	
ERS-2 (esa satellite)	4.4	. escarpments
ESRO 1 satellite	escape (abandonment)	RT cliffs
ESRO 2 satellite	RT bailout	slopes
ESRO 4 satellite	ejection	topography
European Communications	ejection training	Fachadalia
Satellite	entrapment	Escherichia
Exosat satellite	∞ escape	GS microorganisms
GEOS satellites (ESA)	escape rockets	. bacteria
HEOS satellites	escape systems	Escherichia
HEOS A satellite	jettison systems	500 /
HEOS B satellite	jettisoning	ESG (gyroscopes)
Hipparcos satellite	parachute descent	USE electrostatic gyroscopes
. Infrared Space Observatory (ISO)	•	
L-Sat	escape capsules	eskers
Magellan ultraviolet astronomy	GS safety devices	USE glacial drift
satellite	. escape capsules	Faldman
Marecs maritime satellites	space capsules	Eskimos
Marots (ESA)	. escape capsules	RT anthropology
	RT abort apparatus	culture (social sciences)
. METEOSAT satellite	aborted missions	500 ( )
. OTS (ESA)	Assured Crew Return Vehicle	ESO (observatory)
TD satellites	ejection seats	(added June 1996)
TD-1 satellite	emergency life sustaining systems	USE European Southern Observatory
Envisat-1 satellite		
XMM-Newton telescope	∞ escape flying ejection seats	esophagus
RT Earthnet	high altitude environments	GS anatomy
European Space Agency	launch escape systems	. digestive system
European space programs	1 7	esophagus
international cooperation	lunar escape devices	
SOHO Mission	paracone	ESRO
	pressurized cabins	USE European Space Agency
ESA spacecraft	X-38 crew return vehicle	ECDO 1 antolitic
		ESRO 1 satellite
DEF Spacecraft of the European Space	escape rockets	GS artificial satellites
Agency.	DEF Small rocket engines attached to the	. ESA satellites
GS ESA spacecraft	leading end of an escape tower, which may be	ESRO 1 satellite
. Columbus space station	used to provide additional thrust to the capsule	ESA spacecraft
. ESA satellites	to obtain separation of the capsule from the	. ESA satellites
Aerosat satellites	booster vehicle in an emergency.	ESRO 1 satellite
COS-B satellite	GS safety devices	RT European Space Agency
ERS-1 (ESA satellite)	. escape rockets	European space programs
ERS-2 (esa satellite)	RT abort apparatus	
ESRO 1 satellite	aborted missions	ESRO 2 satellite
ESRO 2 satellite	∞ escape	GS artificial satellites
ESRO 4 satellite	escape (abandonment)	. ESA satellites
European Communications	launch escape systems	ESRO 2 satellite
Satellite	lunar escape devices	ESA spacecraft
Exosat satellite	∞ rockets	. ESA satellites
GEOS satellites (ESA)	∞ spacecraft	ESRO 2 satellite
HEOS satellites	• • • • • • • • • • • • • • • • • • • •	RT European Space Agency
HEOS A satellite	escape systems	European space programs
HEOS B satellite	GS escape systems	spear space programo
Hipparcos satellite	. launch escape systems	ESRO 4 satellite
Infrared Space Observatory (ISO)	RT bailout	GS artificial satellites
L-Sat	ejection	. ESA satellites
Magellan ultraviolet astronomy	ejection seats	. ESRO 4 satellite
satellite	ejection seats ∞ escape	ESA spacecraft
Marecs maritime satellites	escape (abandonment)	. ESA 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. TVD schemes GS estimating ESSA 2 satellite . orbital position estimation UF OT-2 esters . parameter identification GS artificial satellites GS esters system identification . 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 GS artificial satellites . octoates reserves . meteorological satellites . organic nitrates risk . . ESSA satellites sampling . ESSA 5 satellite . . nitroforms standard deviation RT Delta launch vehicle . hydrazine nitroform statistical analysis nitroglycerin statistical tests **ESSA 6 satellite** . . PETN ∞ statistics GS artificial satellites phthalates technological forecasting . meteorological satellites . polycarbonates . . ESSA satellites value . . 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 stearates . meteorological satellites cost estimates . . ESSA satellites sulfonates estimating triacetin . ESSA 7 satellite parameterization acetates Delta launch vehicle personnel acetyl compounds citrates **ESSA 8 satellite** Estonia artificial satellites cyanates nations GS . 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 GS organic compounds Skydrol (trademark) . lipids . meteorological satellites . . steroids estimates . . ESSA satellites estimates . . estrogens . ESSA 9 satellite . cost estimates secretions RT Delta launch vehicle . endocrine secretions allocations **ESSA** satellites comparison . . hormones A series of NASA and NOAA satellites confidence limits . estrogens launched to monitor the Earth's weather. Those RT endocrine glands contingency funded by NASA are called TIROS, those contracts sex glands funded by NOAA are called ESSA. damage assessment artificial satellites estuaries estimating . meteorological satellites DEF (A) The seaward end or the widened evaluation .. ESSA satellites forecasting funnel-shaped tidal mouth of a river valley where ... ESSA 1 satellite likelihood ratio fresh water comes into contact with seawater

management methods

management planning

predictions

noise prediction (aircraft) parameter identification

production management

and where tidal effects are evident. ley due to

bays (topographic features) Chesapeake Bay (US)

the rise of sea level.

coasts

UF

outlets (geology)

... ESSA 2 satellite

... ESSA 3 satellite

. . . ESSA 4 satellite

. . . ESSA 5 satellite

... ESSA 6 satellite

... ESSA 7 satellite

fisheries DEF Computer network protocol originally RT ∞ chemical compounds developed in the 1970s for local area network geography ethylene cyanide technology; uses carrier sense multiple access harbors (added April 2004) oceanography with collision detection (CSMA/CD), coaxial USE succinonitrile cable, and broadcast transmission. rivers tidal flats protocol (computers) ethylene dihydrazine Ethernet tides GS hydrazines tributaries carrier sense multiple access . ethylene dihydrazine computer networks organic compounds etalons local area networks . ethylene compounds DEF Two adjustable parallel mirrors . . ethylene dihydrazine mounted so that either one may serve as one of ethers the mirrors in a Michelson interferometer; used ethers GS ethylene oxide to measure distance in terms of wavelengths of . acetals GS epoxy compounds . ethylene oxide spectral lines. anisole GS measuring instruments diethyl ether organic compounds . interferometers gallamine triethiodide . cyclic compounds etalons polyphenyl ether . . heterocyclic compounds . . . ethylene oxide . optical measuring instruments anesthetics . etalons druas bactericides mirrors epoxy compounds chemical sterilization . etalons organic compounds PEEK decontamination optical equipment oxides optical measuring instruments propargyl groups spacecraft sterilization etalons astronomical interferometry ethics ethylenediamine diffractometers The standards of conduct and moral GS organic compounds Fabry-Perot interferometers judgment of a group, religion, profession, etc. . amines flatness RT ∞ methodology . . diamines goniometers norms . ethylenediamine optical measurement research . ethylene compounds photogoniometers ethylenediamine reflectors Ethiopia Ronchi test GS nations ethylenediaminetetraacetic acids Sagnac effect Ethiopia **EDTA** specular reflection RT Africa acids telescopes . carboxylic acids very long base interferometry ethnic factors . . fatty acids DEF The complex patterns of behavior which distinguish an ethnic group. ... acetic acid eta-mesons .... ethylenediaminetetraacetic particles sociology . social factors GS GS acids . elementary particles organic compounds . . bosons . ethnic factors . carboxylic acids . . . mesons RT American Indians . . fatty acids . eta-mesons communities . . . acetic acid . . fermions culture (social sciences) . . . . ethylenediaminetetraacetic ... eta-mesons group dynamics acids . . hadrons race factors . ethylene compounds . . . mesons ethylenediaminetetraacetic acids . eta-mesons ethoxy ethylene RT acetates . nuclear particles GS organic compounds detergents . . bosons . ethylene compounds . . ethoxy ethylene . . . mesons . . eta-mesons The doctrine of causes, particularly the baryons ethyl alcohol causes and reasons for diseases. charged particles UF ethanol hydroxyl compounds . alcohols case histories omega-mesons GS causes rho-mesons diseases sigma-mesons . ethyl alcohol atmospheric energy sources carbohydrates prevention etchants ETR (reactors) corrosion RT USE engineering test reactors etching ethyl compounds RT ∞ chemical compounds etching ETS series satellites diethyl compounds etching (added October 1997) GS diethyl hydrogen phosphite (DEHP) plasma etching USE Engineering Test Satellites tetraethyl orthosilicate RT corrosion triethyl compounds Ettingshausen coolers engraving Ettingshausen effect erosion ethylene thermoelectric cooling etchants GS organic compounds metallography . hydrocarbons Ettingshausen effect photoresists . . aliphatic hydrocarbons Ettingshausen coolers cooling systems . . . alkenes RT ultrasonic cleaning . . . . ethylene ∞ effects ethane ... vinylidene temperature effects organic compounds hydrocarbon fuels thermoelectric cooling . hydrocarbons plant growth regulators thermoelectricity thermomagnetic cooling thermomagnetic effects . . aliphatic hydrocarbons polyethylenes . . . alkanes ethylene compounds . ethane RT hydrocarbon fuels GS organic compounds **Euclidean geometry** Euclidean space ethylene compounds ethane nitrile geometry
. Euclidean geometry . . chloroethylene USE acetonitrile . trichloroethylene . . ethoxy ethylene . . analytic geometry ethanol . . . catenaries . . ethylene dihydrazine USE ethyl alcohol

. . ethylenediamine

. . succinonitrile

**Ethernet** 

(added January 2000)

. ethylenediaminetetraacetic acids

. . . circumferences

... conics

. . . . ellipses

	hyperbolas		biological evolution		Galilean satellites
	parabolas		cytology		Europa
	cycloids		molecular biology	RT	Charon
	epicycloids		prokaryotes		extraterrestrial oceans
	loci				extraterrestrial water
	Mercator projection	Euler b			Jupiter (planet)
	quadrants	GS	buckling . Euler buckling	Europa	1 launch vehicle
	S curves	RT	stress analysis		launch vehicles
	Gompertz curves spheroids	nı	Siless allalysis	do	. Europa launch vehicles
	oblate spheroids	Euler e	quations of motion		Europa 1 launch vehicle
	prolate spheroids	GS	equations of motion		Zaropa i laarion voinolo
	tangents		. Euler equations of motion	Europa	2 launch vehicle
	toruses	RT •	∘ equations		launch vehicles
	trigonometry		Godunov method		. 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		Ole and altitude
	Bragg angle		rigid structures		3 launch vehicle
	Brewster angle		upwind schemes (mathematics)	GS	launch vehicles
	dihedral angle	Eulor B	ernoulli beam theory		. Europa launch vehicles
	elevation angle		ed April 1998)		Europa 3 launch vehicle
	look angles (electronics)		Euler-Bernoulli beams	Europa	4 launch vehicle
	look angles (tracking) sweep angle	002			launch vehicles
	sweep angle	Euler-B	ernoulli beams		. Europa launch vehicles
	leading edge sweep	(add	ed April 1998)		Europa 4 launch vehicle
	Cartesian coordinates	ÜF	Euler-Bernoulli beam theory		-
	circles (geometry)	GS	structural members		launch vehicles
	great circles		. beams (supports)	GS	launch vehicles
	descriptive geometry		. Euler-Bernoulli beams		Europa launch vehicles
	. lines (geometry)	RT	axial strain		Europa 1 launch vehicle
	chords (geometry)		bending		Europa 2 launch vehicle
	geodesic lines		bending vibration		Europa 3 launch vehicle
	points (mathematics)		dynamic structural analysis	RT	Europa 4 launch vehicle Ariane launch vehicle
	fixed points (mathematics)		elastic properties	ΠI	Eldo launch vehicle
	inflection points		mathematical models partial differential equations		European Space Agency
	polygons		structural analysis		European space programs
	hexagons		Timoshenko beams		• vehicles
	tetragons		Timosheriko bearris		700.00
	parallelograms	Euler-C	auchy equations	Europe	
	rhomboids rectangles	GS		GŚ	continents
	squares (mathematics)		. real variables		. Europe
	trapezoids		differential equations		Central Europe
	triangles		partial differential equations	RT	Albania
	polyhedrons		Euler-Cauchy equations		Alps Mountains (Europe)
	cubes (mathematics)	RT			Andorra
	icosahedrons		conformal mapping		Armenia
	octahedrons	۰	o equations		Austria
	parallelepipeds		vector analysis		Azerbaijan
	pyramids	Eulorion	nutation		Baltic Shield (Europe)
	rhombohedrons		nutation Chandler wobble		Belarus Belgium
	tetrahedrons	USL	Chandler Wobbie		Bosnia and Herzegovina
	. projective geometry	Fuler-l	agrange equation		Bulgaria
	Mercator projection	UF	Lagrange equations of motion		Carpathian Mountains (Europe
	radii	GS	equations of motion		Commonwealth of Independen
DT	Larmor radius		Euler-Lagrange equation		States
RT	coordinates curves (geometry)	RT	calculus of variations		Croatia
	phase-space integral		Castigliano variational theorem		Czech Republic
	polytopes		classical mechanics		Czechoslovakia
	Riemann manifold	۰	∘ equations		Denmark
	Sobolev space		extremum values		East Germany
	spheres		Lagrangian function		England
	The state of the s				Estonia
Euclidea	an space		ambert equation		European Union
USE	Euclidean geometry		elliptical orbits		Finland
		٥	∘ equations		France
eudiom		F	(ECA)		Georgia (Eurasia)
GS	measuring instruments	<b>Eureca</b> DEF			Germany Gibraltar
RT	. eudiometers		nous space platform being developed by		Greece
ΠI	gas mixtures spark ignition		opean Space Agency. First launch is		Hungary
	spark ignition		ed for 1991 with first retrieval 6 months		Iceland
Euglena	a		sed for European Retrievable Carrier.		Italy
GS	animals	UF	European Retrievable Carrier		Latvia
	. protozoa	GS	space platforms		Liechtenstein
	Flagellata		Eureca (ESA)		Lithuania
	Euglena	RT	space shuttles		Luxembourg
	microorganisms				Middle East
	. protozoa	Europa			Moldova
	Flagellata	DEF	A satellite of Jupiter orbiting at a mean		Monaco
	Euglena		e of 671,000 kilometers. Also called Ju-		nations
RT	algae	piter II.	coloctical bodies		Netherlands
oules	aton	GS	celestial bodies		Northern Ireland
eukaryo			. natural satellites		Norway
GS	cells (biology) . eukaryotes		icy satellites Europa		Poland Portugal
RT	bacteria		Jupiter satellites		Romania
711	autoriu.		Japitor Jatomitoo		

	Russian Federation		Sweden, and Switzerland.		GEOS satellites (ESA)
	San Marino		ESO (observatory)		HEOS satellites
	Scotland	GS			Hipparcos satellite
	Serbska Republic Slovakia		. astronomical observatories European Southern Observatory		Infrared Space Observatory (ISO) International Magnetospheric Study
	Spain	RT			International Satellite Geodesy
	Sweden		international cooperation		Experiment
	Switzerland		·		IRIS satellites
	Turkey	Europe	ean Space Agency		man tended free flyers
	U.S.S.R.		An international organization acting on		Marecs maritime satellites
	Ukraine United Kingdom		of its member states (Beogium, Denmark,		Mars Express METEOSAT satellite
	Vatican City		Germany, Italy, the Netherlands, Spain,		OTS (ESA)
	Wales		n, Switzerland, and the United Kingdom).  ESA		Quasat
	West Germany	Oi	ESRO		SOHO Mission
	Yugoslavia		European Space Research		space missions
Europo	on 1 oncooreft		Organization		Symphonie satellites
GS	an 1 spacecraft artificial satellites	GS	organizations	_	0 5 10 11
ao	. European 1 spacecraft	БТ	European Space Agency		an Space Research Organization
RT	Eldo launch vehicle	RT	Ariane launch vehicle Cassini mission	USE	European Space Agency
			Columbus module	Furone	an Space Research Organization sat
	an Airbus		Cupola Module		ESA satellites
UF	Airbus		Eldo launch vehicle	002	
GS	commercial aircraft . European Airbus		ERS-1 (ESA satellite)	Europe	an Union
	A-300 aircraft		ERS-2 (esa satellite)		ed June 2005)
	A-310 aircraft		ESA satellites	RT	Europe
	A-320 aircraft		ESRO 1 satellite		European Space Agency
	A-330 aircraft		ESRO 2 satellite ESRO 4 satellite		European space programs
	A-340 aircraft		Europa launch vehicles		federations
	A-380 aircraft		European space programs		international cooperation
	jet aircraft		European Union		international law North Atlantic Treaty Organization
	European Airbus		EXPOS (Spacelab payload)		(NATO)
	A-300 aircraft A-310 aircraft		Geosari project		United Nations
	A-310 aircraft		ICL computers		
	A-330 aircraft		LIRTS (telescope)	europiu	ım
	A-340 aircraft		Marots (ESA)	GS	chemical elements
	A-380 aircraft		Mars Express		. rare earth elements
	passenger aircraft		METEOSAT satellite		europium
	. European Airbus		space programs		europium isotopes
	A-300 aircraft	_			metals
	A-310 aircraft		ean space programs		. rare earth elements
	A-320 aircraft	GS	programs		europium
	A-330 aircraft		. space programs		europium isotopes
	A-340 aircraft		European space programs Austrian space program		
	A-380 aircraft		Belgian space program		ım compounds
	transport aircraft . European Airbus		Czechoslovakian space program	GS	rare earth compounds . europium compounds
	A-300 aircraft		Danish space program	DT .	. europium compounds ∞ chemical compounds
	A-310 aircraft		Finnish space program		∞ metal compounds
	A-320 aircraft		French space program	_	- motal compounds
	A-330 aircraft		German space program	euroniu	ım isotopes
	A-340 aircraft		Greek space program		chemical elements
	A-380 aircraft		Hungarian space program	0.0	. nuclides
RT ∝	aircraft		Icelandic space program		isotopes
	international cooperation		Italian space program Luxembourg space program		europium isotopes
Europo	on Communications Satellits		Netherlands space program		. rare earth elements
UF	an Communications Satellite  ECS		Norwegian space program		europium
GS	artificial satellites		Portuguese space program		europium isotopes
0.0	. communication satellites		Spanish space program		metals . rare earth elements
	European Communications		Swedish space program		europium
	Satellite		Swiss space program		europium isotopes
	. ESA satellites		Turkish space program		,
	European Communications	рτ	UK space program Aerosat satellites	eustach	nian tubes
	Satellite	п	AMPTE (satellites)		anatomy
	ESA spacecraft . ESA satellites		Ariane 4 launch vehicle		. sense organs
	. European Communications		Ariane 5 launch vehicle		ear
	Satellite		Ariane launch vehicle		eustachian tubes
RT	European space programs		Azur satellite	RT	eardrums
	OTS (ESA)		Cassini mission	0	∘ tubes
	,		Cluster Mission		
	an Incoherent Scatter Radar		Committee on Space Research		c alloys
USE	EISCAT radar system (Europe)		COS-B satellite	GS	alloys
	an Larga Talagamm Catallita		DIAL satellite		. eutectic alloys
	an Large Telecomm Satellite		Earthnet ESA satellites		binary systems (materials)
USE	L-Sat		ESA satellites ESRO 1 satellite		. binary mixtures eutectics
Furonea	an Retrievable Carrier		ESRO 2 satellite		eutectic alloys
	Eureca (ESA)		ESRO 4 satellite		mixtures
	- ( - /		Europa launch vehicles		. binary mixtures
Europe	an Southern Observatory		European Communications Satellite		eutectics
(adde	ed June 1996)		European Space Agency		eutectic alloys
DEF	An astronomical observatory with sev-		European Union	RT	alloying
	escopes at La Silla, Chile. It ws estab-		Exosat satellite		bismuth alloys
	by and is jointly operated by Belgium,		foreign policy		lamella (metallurgy)
⊔enmar	k, France, Germany, Italy, the Nether-		French satellites		superplasticity

	whisker composites		elimination	GS	phase transformations
outoatia	acompositos		∞ evacuating		. vaporizing
DEF	composites Composite materials with a metal ma-		exhausting		evaporation
	mixture of solids including eutectoids.		gas pockets purging		evapotranspiration propellant evaporation
GS	composite materials		removal		transpiration
	. metal matrix composites		suction	RT	boiling
-	. eutectic composites		vacuum		concentrating
RT	alloys		vacuum pumps		condensing
	directional solidification (crystals) eutectics		venting vents		dehydration
	fracture strength		verits		diffusion distillation
~	matrices	<b>EVAL</b>			drying
	metals	USE	Earth Viewing Applications		evanescence
	mixtures		Laboratory		evaporative cooling
	precipitation hardening	evalua	tion		evaporography
eutectic	diagrams	DEF	The process of determining whether		flashing (vaporizing)
USE	phase diagrams		or activity meets the specified criteria.		gas-liquid interactions gas-metal interactions
		GS	evaluation		hydrological cycle
eutectio			. training evaluation		liquid-vapor interfaces
GS	binary systems (materials) . binary mixtures	RT	accelerated life tests		perspiration
	eutectics		acceptability		reservoirs
	eutectic alloys	,	∞ analyzing approach and landing tests (STS)		respiratory system
	mixtures		assessments	٥	∘ separation skin (anatomy)
	. binary mixtures		certification		sublimation
	eutectics		∞ classifying		volatility
БТ	eutectic alloys		comparison		water loss
RT	alloying		computer systems performance		
	alloys eutectic composites		correlation		ation rate
	liquid phases		costs criteria		The mass of material evaporated per
	phase diagrams		crop identification		e from unit surface of a liquid or solid mber of molecules of a given substance
	solid phases		∞ discussion		ated per second per square centimeter
	solutions		economics		e free surface of the condensed phase.
	syntectic alloys		estimates	GS	rates (per time)
eutroph	ication		estimating		. evaporation rate
	The process by which waters become		examination feasibility	RT	heat transfer coefficients
	trophic; especially the artificial or natural		figure of merit	evanor	ative cooling
	ent of a lake by an influx of nutrients		forecasting	GS	cooling
	for the growth of aquatic plants such as		∞ indication	0.0	. evaporative cooling
•	at are vital for fish and animal life.		inspection		film cooling
RT	environment effects lakes		management		sweat cooling
~	nutrients	,	∞ measurement	RT	capillary pumped loops
			normalizing (statistics) observation		cooling systems
<b>EUVE</b>			∞ performance		cryogenic fluid storage evaporation
USE	Extreme Ultraviolet Explorer		performance prediction		propellant evaporation
	satellite		position (title)		surface cooling
euxenite	<b>a</b>		proving		3
	minerals		quality	evapora	
	. euxenite		ranking	GS	heating equipment
RT	niobates		ratings rejection		. vaporizers evaporators
	oxides		reserves		separators
	titanates		reviewing		. evaporators
EVA			risk assessment	RT	air conditioning equipment
USE	extravehicular activity		selection		atomizers
	<b>,</b>		statistical correlation		concentrators
evacua	<u> </u>		technology assessment		condensers (liquefiers)
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	,	∞ tests timber identification		cooling systems drying apparatus
	LISTED BELOW)		value		heat exchangers
RT	evacuating (transportation) evacuating (vacuum)				refrigerating machinery
	evacuating (vacuum)	evanes			
evacuat	ing (transportation)	RT	evanescent waves		ography
SN	(LIMITED TO CLEARANCE OF		evaporation surface properties	RI	evaporation
	PERSONNEL, ANIMALS, OR MATERIAL FROM A GIVEN LOCALITY)		transpiration		images infrared radiation
DEF	The organized withdrawal or removal		transpiration		photography
of peopl	e from a place or area as a protective	evanes	scent waves		
measure		,	led March 1998)		ranspiration
RT	C-9 aircraft	GS	surface waves	DEF	
	casualties civil defense	RT	. evanescent waves acoustic impedance		ation of plants and evaporation from the surface-water bodies. Also, the volume
	ejection	וח	evanescence		r lost through evapotranspiration.
	elimination		fiber optics	GS	phase transformations
∞	evacuating		internal waves		. vaporizing
	hospitals		plane waves		evaporation
	mobile quarantine facility		propagation modes		evapotranspiration
	removal		reflected waves	RT	transpiration
	transportation		wave propagation		vadose water
	unloading	,	∞ waves	evasive	e actions
evacuat	ing (vacuum)	evapor	ation	GS	maneuvers
UF	gas evacuating	DĖF	The physical process by which a liquid		. evasive actions
RT	drainage		is transformed into the gaseous state;	RT	electronic warfare
	ejection	the opp	osite of condensation.		obstacle avoidance

	· ·	1. 11	
	pursuit-evasion games	∞ evolution	mineral deposits
	tactics	extinction .	mineral exploration
	terrain following	gene expression	mining
	warfare	genetics	pits (excavations)
ovacivo	satellites	growth	strip mining
	artificial satellites	heredity	underground structures
ao	. evasive satellites	interstellar extinction	
	maneuverable spacecraft	ontogeny	∞ exchangers
	. evasive satellites	species diffusion	SN (USE OF A MORE SPECIFIC TERM IS
RT	military spacecraft	evolution (liberation)	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)
	Tillitary opassorati	GS evolution (liberation)	RT heat exchangers
evection		. gas evolution	
USE	lunar orbits	RT boiling	exchanging
	orbit perturbation	desorption	GS exchanging
	solar gravitation	∞ evolution	. charge exchange
		outgassing	resonance charge exchange
	en 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	DEF 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) even-even nuclei	UF EHW (computers)	
RT	nuclear structure	GS reconfigurable hardware . evolvable hardware	excimer lasers
111	odd-even nuclei		DEF Molecular lasers using vibronic transi-
	odd-odd nuclei	RT design optimization	tions whose lasing medium is a dimer that exists
	da da Hadidi	field-programmable gate arrays	in the excited state and dissociates in the
evening		genetic algorithms ∞ hardware	ground state.
RT	daytime	integrated circuits	GS stimulated emission devices
	night	logic circuits	. lasers
	sunset	logic design	gas lasers
		neural nets	excimer lasers
event he	orizon	self repairing devices	RT electron pumping
(adde	ed August 1990)	oon repairing devices	fluorides
DEF	The smallest radius of observable	EVS	halogens laser deposition
events a	round a black hole.	USE enhanced vision	laser outputs
GS	horizon		lasing
	. event horizon	exactness	optical pumping
RT	black holes (astronomy)	USE precision	pulsed laser deposition
	cosmology		∞ rare gas compounds
	gravitation theory	examination	xenon chloride lasers
	naked singularities	GS examination	xenon fluoride lasers
	relativity	. eye examinations	Action industrial labels
	Schwarzschild metric	RT acceptability	excimers
	white holes (astronomy)	∞ analyzing	DEF Molecules characterized by repulsive
		characterization	DLI Wolecules Characterized by repulsive
			or very weakly bound ground electronic states
events	events	clinical medicine	or very weakly bound ground electronic states.  BT electron orbitals
	events consecutive events	clinical medicine comparison	RT electron orbitals
GS	. consecutive events	clinical medicine comparison conical scanning	RT electron orbitals electron states
	. consecutive events occurrences	clinical medicine comparison conical scanning detection	RT electron orbitals electron states electron transitions
GS	. consecutive events occurrences probability density functions	clinical medicine comparison conical scanning detection diagnosis	RT electron orbitals electron states electron transitions intermolecular forces
GS	. consecutive events occurrences probability density functions probability theory	clinical medicine comparison conical scanning detection diagnosis ∞ discussion	RT electron orbitals electron states electron transitions
GS	. consecutive events occurrences probability density functions probability theory statistical analysis	clinical medicine comparison conical scanning detection diagnosis ∞ discussion evaluation	RT electron orbitals electron states electron transitions intermolecular forces molecular energy levels
GS	. consecutive events occurrences probability density functions probability theory	clinical medicine comparison conical scanning detection diagnosis ∞ discussion evaluation exploration	RT electron orbitals electron states electron transitions intermolecular forces molecular energy levels ∞ rare gas compounds
GS	. consecutive events occurrences probability density functions probability theory statistical analysis statistical distributions	clinical medicine comparison conical scanning detection diagnosis ∞ discussion evaluation exploration inspection	RT electron orbitals electron states electron transitions intermolecular forces molecular energy levels ∞ rare gas compounds  excitation
GS RT Evergla	consecutive events occurrences probability density functions probability theory statistical analysis statistical distributions stochastic processes  des (FL)	clinical medicine comparison conical scanning detection diagnosis ∞ discussion evaluation exploration	RT electron orbitals electron states electron transitions intermolecular forces molecular energy levels ∞ rare gas compounds  excitation
GS RT	. consecutive events occurrences probability density functions probability theory statistical analysis statistical distributions stochastic processes	clinical medicine comparison conical scanning detection diagnosis ∞ discussion evaluation exploration inspection investigation	RT electron orbitals electron states electron transitions intermolecular forces molecular energy levels ∞ rare gas compounds  excitation DEF Addition of energy to a nuclear, atomic
GS RT Everglan	consecutive events occurrences probability density functions probability theory statistical analysis statistical distributions stochastic processes  des (FL) Florida	clinical medicine comparison conical scanning detection diagnosis ∞ discussion evaluation exploration inspection investigation ∞ measurement	RT electron orbitals electron states electron transitions intermolecular forces molecular energy levels ∞ rare gas compounds  excitation DEF Addition of energy to a nuclear, atomic or molecular system transferring it to another
GS RT Everglan RT evoked	consecutive events occurrences probability density functions probability theory statistical analysis statistical distributions stochastic processes  des (FL) Florida response (psychophysiology)	clinical medicine comparison conical scanning detection diagnosis ∞ discussion evaluation exploration inspection investigation ∞ measurement observation	RT electron orbitals electron states electron transitions intermolecular forces molecular energy levels ∞ rare gas compounds  excitation  DEF Addition of energy to a nuclear, atomic or molecular system transferring it to another energy state. Used for excited states. UF excited states GS excitation
GS RT Everglan	consecutive events occurrences probability density functions probability theory statistical analysis statistical distributions stochastic processes  des (FL) Florida  response (psychophysiology) physiological responses	clinical medicine comparison conical scanning detection diagnosis ∞ discussion evaluation exploration inspection investigation ∞ measurement observation ∞ performance	electron orbitals electron states electron transitions intermolecular forces molecular energy levels ∞ rare gas compounds  excitation  DEF Addition of energy to a nuclear, atomic or molecular system transferring it to another energy state. Used for excited states.  UF excited states GS excitation . atomic excitations
GS RT Everglan RT evoked	consecutive events occurrences probability density functions probability theory statistical analysis statistical distributions stochastic processes  des (FL) Florida response (psychophysiology)	clinical medicine comparison conical scanning detection diagnosis  ∞ discussion evaluation exploration inspection investigation ∞ measurement observation performance proving reviewing scanning	RT electron orbitals electron states electron transitions intermolecular forces molecular energy levels ∞ rare gas compounds  excitation  DEF Addition of energy to a nuclear, atomic or molecular system transferring it to another energy state. Used for excited states. UF excited states GS excitation . atomic excitations . molecular excitation
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GS RT Everglan RT evoked RT evolution SN	consecutive events occurrences probability density functions probability theory statistical analysis statistical distributions stochastic processes  des (FL) Florida  response (psychophysiology) physiological responses psychophysiology  on (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) biogeny chemical evolution evolution (development)	clinical medicine comparison conical scanning detection diagnosis  discussion evaluation exploration inspection investigation  measurement observation  performance proving reviewing scanning  tests training evaluation ultrasonic flaw detection  excavation  DEF The act or process of removing soil and/or rock materials from one location and	electron orbitals electron states electron transitions intermolecular forces molecular energy levels ∞ rare gas compounds  excitation  DEF Addition of energy to a nuclear, atomic or molecular system transferring it to another energy state. Used for excited states.  UF excited states  GS excitation . atomic excitations . molecular excitation . photoexcitation . self excitation . wave excitation . harmonic excitation RT activation actuation
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Everglan RT  evoked RT  evolution SN  RT	consecutive events occurrences probability density functions probability theory statistical analysis statistical distributions stochastic processes  des (FL) Florida  response (psychophysiology) physiological responses psychophysiology  on (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) biogeny chemical evolution evolution (development) evolution (liberation) existence	clinical medicine comparison conical scanning detection diagnosis  discussion evaluation exploration inspection investigation  measurement observation  performance proving reviewing scanning tests training evaluation ultrasonic flaw detection  excavation  DEF The act or process of removing soil and/or rock materials from one location and transporting them to another. It includes digging, blasting, breaking, loading, and hauling, either at the surface or underground. Also, a pit, cavity,	RT electron orbitals electron states electron transitions intermolecular forces molecular energy levels ∞ rare gas compounds  excitation  DEF Addition of energy to a nuclear, atomic or molecular system transferring it to another energy state. Used for excited states.  UF excited states GS excitation . atomic excitations . molecular excitation . photoexcitation . self excitation . wave excitation . harmonic excitation RT activation actuation atomic energy levels auroral ionization auroral irradiation
Everglan RT  evoked RT  evolution SN  RT	. consecutive events occurrences probability density functions probability theory statistical analysis statistical distributions stochastic processes  des (FL) Florida  response (psychophysiology) physiological responses psychophysiology  on (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) biogeny chemical evolution evolution (development) evolution (liberation) existence on (development)	clinical medicine comparison conical scanning detection diagnosis  discussion evaluation exploration inspection investigation  measurement observation  performance proving reviewing scanning etests training evaluation ultrasonic flaw detection  excavation  DEF The act or process of removing soil and/or rock materials from one location and transporting them to another. It includes digging, blasting, breaking, loading, and hauling, either at the surface or underground. Also, a pit, cavity, hole, or other uncovered cutting produced by	RT electron orbitals electron states electron transitions intermolecular forces molecular energy levels ∞ rare gas compounds  excitation  DEF Addition of energy to a nuclear, atomic or molecular system transferring it to another energy state. Used for excited states.  UF excited states GS excitation . atomic excitations . molecular excitation . photoexcitation . self excitation . self excitation . wave excitation . harmonic excitation  RT activation actuation atomic energy levels auroral ionization
Everglar RT evoked RT evolution SN RT	consecutive events occurrences probability density functions probability theory statistical analysis statistical distributions stochastic processes  des (FL) Florida  response (psychophysiology) physiological responses psychophysiology  on (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) biogeny chemical evolution evolution (development) evolution (liberation) existence	clinical medicine comparison conical scanning detection diagnosis  discussion evaluation exploration inspection investigation  measurement observation  performance proving reviewing scanning tests training evaluation ultrasonic flaw detection  excavation  DEF The act or process of removing soil and/or rock materials from one location and transporting them to another. It includes digging, blasting, breaking, loading, and hauling, either at the surface or underground. Also, a pit, cavity,	RT electron orbitals electron states electron transitions intermolecular forces molecular energy levels ∞ rare gas compounds  excitation  DEF Addition of energy to a nuclear, atomic or molecular system transferring it to another energy state. Used for excited states.  UF excited states GS excitation . atomic excitations . molecular excitation . photoexcitation . self excitation . self excitation . wave excitation . harmonic excitation  RT activation atomic energy levels auroral irradiation electromagnetic absorption
Everglar RT evoked RT evolution SN RT	. consecutive events occurrences probability density functions probability theory statistical analysis statistical distributions stochastic processes  des (FL) Florida  response (psychophysiology) physiological responses psychophysiology  on (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) biogeny chemical evolution evolution (development) evolution (liberation) existence  on (development) evolution (development)	clinical medicine comparison conical scanning detection diagnosis  discussion evaluation exploration inspection investigation  measurement observation performance proving reviewing scanning tests training evaluation ultrasonic flaw detection  excavation  DEF The act or process of removing soil and/or rock materials from one location and transporting them to another. It includes digging, blasting, breaking, loading, and hauling, either at the surface or underground. Also, a pit, cavity, hole, or other uncovered cutting produced by excavation or the material dug out in making a	electron orbitals electron states electron transitions intermolecular forces molecular energy levels ∞ rare gas compounds  excitation  DEF Addition of energy to a nuclear, atomic or molecular system transferring it to another energy state. Used for excited states.  UF excited states  GS excitation . atomic excitations . molecular excitation . photoexcitation . self excitation . wave excitation . harmonic excitation . harmonic excitation  RT activation actuation atomic energy levels auroral irradiation electromagnetic absorption electron states
Everglar RT evoked RT evolution SN RT	. consecutive events occurrences probability density functions probability theory statistical analysis statistical distributions stochastic processes  des (FL) Florida  response (psychophysiology) physiological responses psychophysiology  on (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) biogeny chemical evolution evolution (development) evolution (liberation) existence  on (development) evolution (development) evolution (development) . biological evolution	clinical medicine comparison conical scanning detection diagnosis  discussion evaluation exploration inspection investigation  measurement observation  performance proving reviewing scanning  tests training evaluation ultrasonic flaw detection  excavation  DEF The act or process of removing soil and/or rock materials from one location and transporting them to another. It includes digging, blasting, breaking, loading, and hauling, either at the surface or underground. Also, a pit, cavity, hole, or other uncovered cutting produced by excavation or the material dug out in making a channel or cavity. Used for ditching (excavation) UF ditching (excavation) GS excavation	electron orbitals electron states electron transitions intermolecular forces molecular energy levels ∞ rare gas compounds  excitation  DEF Addition of energy to a nuclear, atomic or molecular system transferring it to another energy state. Used for excited states.  UF excited states GS excitation . atomic excitations . molecular excitation . photoexcitation . self excitation . self excitation . harmonic excitation  RT activation actuation atomic energy levels auroral irradiation electrom states electron transitions emission energy levels
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Everglar RT evoked RT evolution SN RT	. consecutive events occurrences probability density functions probability theory statistical analysis statistical distributions stochastic processes  des (FL) Florida  response (psychophysiology) physiological responses psychophysiology  on (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) biogeny chemical evolution evolution (development) evolution (liberation) existence on (development) evolution (development) biological evolution . abiogenesis . chemical evolution . galactic evolution . planetary evolution . planetary evolution	clinical medicine comparison conical scanning detection diagnosis	electron orbitals electron states electron transitions intermolecular forces molecular energy levels ∞ rare gas compounds  excitation  DEF Addition of energy to a nuclear, atomic or molecular system transferring it to another energy state. Used for excited states.  UF excited states  GS excitation
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Everglar RT evoked RT evolution SN RT	. consecutive events occurrences probability density functions probability theory statistical analysis statistical distributions stochastic processes  des (FL) Florida  response (psychophysiology) physiological responses psychophysiology  on (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) biogeny chemical evolution evolution (development) evolution (ilberation) existence  on (development) evolution (development) biological evolution . abiogenesis . chemical evolution galactic evolution galactic evolution . solar system evolution . stellar evolution	clinical medicine comparison conical scanning detection diagnosis  discussion evaluation exploration inspection investigation  measurement observation performance proving reviewing scanning tests training evaluation ultrasonic flaw detection  excavation  DEF The act or process of removing soil and/or rock materials from one location and transporting them to another. It includes digging, blasting, breaking, loading, and hauling, either at the surface or underground. Also, a pit, cavity, hole, or other uncovered cutting produced by excavation or the material dug out in making a channel or cavity. Used for ditching (excavation) UF ditching (excavation) GS excavation tunneling (excavation) RT boreholes construction ditching drainage exploration	electron orbitals electron states electron transitions intermolecular forces molecular energy levels ∞ rare gas compounds  excitation  DEF Addition of energy to a nuclear, atomic or molecular system transferring it to another energy state. Used for excited states.  UF excited states  GS excitation . atomic excitations . molecular excitation . photoexcitation . self excitation . wave excitation . harmonic excitation . harmonic excitation  RT activation actuation atomic energy levels auroral irradiation electromagnetic absorption electron states electron transitions emission energy levels frequency response ionization laser induced fluorescence metastable state radiation trapping
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Everglan RT evoked RT evolution GS	. consecutive events occurrences probability density functions probability theory statistical analysis statistical distributions stochastic processes  des (FL) Florida  response (psychophysiology) physiological responses psychophysiology  on (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) biogeny chemical evolution evolution (development) evolution (ilberation) existence  on (development) evolution (development) biological evolution . abiogenesis . chemical evolution galactic evolution galactic evolution . solar system evolution . stellar evolution	clinical medicine comparison conical scanning detection diagnosis  discussion evaluation exploration inspection investigation  measurement observation performance proving reviewing scanning tests training evaluation ultrasonic flaw detection  excavation  DEF The act or process of removing soil and/or rock materials from one location and transporting them to another. It includes digging, blasting, breaking, loading, and hauling, either at the surface or underground. Also, a pit, cavity, hole, or other uncovered cutting produced by excavation or the material dug out in making a channel or cavity. Used for ditching (excavation) UF ditching (excavation) GS excavation tunneling (excavation) RT boreholes construction ditching drainage exploration	RT electron orbitals electron states electron transitions intermolecular forces molecular energy levels ∞ rare gas compounds  excitation  DEF Addition of energy to a nuclear, atomic or molecular system transferring it to another energy state. Used for excited states.  UF excited states  GS excitation . atomic excitations . molecular excitation . photoexcitation . self excitation . wave excitation . harmonic excitation RT activation actuation atomic energy levels auroral irradiation electromagnetic absorption electron states electron transitions emission energy levels frequency response ionization laser induced fluorescence metastable state radiation trapping

	transition probabilities		waste energy utilization		waste disposal waste energy utilization
excited	states	exertion			wastes
	excitation	USE	physical work	exhaust	iets
		exhalat	ion		exhaust gases
exciton GS	s elementary excitations	RT		avbauat	
us	. excitons		expired air respirometers		nozzles exhaust nozzles
RT	carrier mobility		respirometers	ao	. convergent-divergent nozzles
	electrical insulation	exhaus	t clouds		. plug nozzles
	electrons		Clouds formed from the exhaust aero-		. spike nozzles
	energy bands holes (electron deficiencies)		aunch vehicle engines and boosters at Jsed for ground clouds and launch	DT	. turbine exhaust nozzles air ducts
	ionic crystals	clouds.	osed for ground clouds and launch	ΠI	annular nozzles
	light (visible radiation)	UF	ground clouds		base heating
	optical properties		launch clouds		conical nozzles
	photoelectromagnetic effects plasmons	RT	aerosols clouds		divergent nozzles
	positronium	•	exhaust gases	∞	ejectors flow
	semiconductors (materials)		launch vehicles		infrared suppression
	spectra		launching		inlet nozzles
	Suhl effect		launching sites		jet engines
exclusi	on		rocket exhaust rocket launching		jet nozzles nozzle flow
RT	elimination		Tooliet Idanoming		nozzle inserts
	isolation		t diffusers	∞	nozzles
	Pauli exclusion principle		conical nozzles		openings
	rejection	•	odiffusers eiectors		outlets rocket engines
٥	o separation	~	iet nozzles		skirts
excretio	n		supersonic diffusers		
RT	expulsion		vaneless diffusers		systems
	feces	exhaus	t emission	RT	afterburning air conditioning
	human wastes		The movement of gaseous or other		air pollution
	perspiration	particles	and radiation from the nozzle of a		blowers
	urine		r other reaction engine.		chimneys
ovocutio	ve aircraft	GS	emission . exhaust emission		condensers (liquefiers) cooling systems
	general aviation aircraft	RT	gas-gas interactions		ducts
	passenger aircraft		gas-metal interactions		dust collectors
			high temperature gases		ejectors
executiv	ve systems (computers)		infrared radiation jet exhaust		elimination
USE	operating systems (computers)		particle emission		engines exhausting
			pollution transport		flues
exercise			releasing		fuel tank pressurization
USE	physical exercise		thermal emission		intake systems
ovoroio	o nhysiology		volatile organic compounds		internal combustion engines manifolds
GS	e physiology physiology	exhaus	t flow simulation		mufflers
ao	. exercise physiology	GS	simulation		openings
RT	circulatory system	DT	. exhaust flow simulation		outlets
	human body	RT	flow distribution mathematical models		pipe nozzles plenum chambers
	locomotion muscular tonus		wind tunnels		ports (openings)
	physical exercise				rocket exhaust
	physical fitness	exhaus		∞	systems
	physiochemistry	UF GS	exhaust jets		temperature control
	physiological effects	us	gases . exhaust gases		ventilation ventilators
	respiratory physiology sports medicine		flue gases		vents
	stress (biology)		air pollution		waste disposal
	stress (physiology)	00	blasts		laste.
			combustion efficiency combustion products		velocity The velocity of gases or particles (ex
exergic			diluents		eam) that exhaust through the nozzle of
	ed December 2000) exergy		effluents		on engine, relative to the nozzle.
USL	exergy		environment effects	GS	rates (per time)
exergy			erosive burning exhaust clouds		. exhaust velocity 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
	energy but a designation of the quality of		jet blast effects		flow velocity
energy.			jet exhaust	exhaust	ing
UF	exergic energy		nozzle flow	RT	blowing
RT •	onergy		odors		breathing vibration
	energy budgets energy conservation		particulates pollution transport		consumption decontamination
	energy conservation efficiency		propulsion	∞	discharge
	energy dissipation		reaction products		dispersing
	entropy		rocket exhaust		disposal
	power efficiency		smog		dissipation
	thermodynamic efficiency thermodynamic properties		smoke smoke abatement		ejection 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

DEF 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)

USE extrasolar planets

#### **EXOS** satellites

GS artificial satellites

- . scientific satellites
- .. 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

**EXOS-A satellite** 

(added February 1992)

XM-33 engine

UF Kyokko satellite

artificial satellites

. scientific satellites

. . EXOS satellites

. EXOS-A satellite

Japanese spacecraft

. EXOS satellites

.. EXOS-A satellite

## **Exosat satellite**

HELOS (satellite)

High Eccentric Lunar Occultation

Satellite

GS artificial satellites

. 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

(added February 1992)

Akebono satellite

GS artificial satellites

. scientific satellites

. . EXOS satellites . . EXOS-D satellite

Japanese spacecraft

**EXOS** satellites

.. EXOS-D satellite

# exoskeletons

RT anatomy

arthropods

body composition (biology)

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 RT expulsion bladders folding structures

large space structures orbital assembly

space erectable structures

∞ spacecraft

∞ structures variable geometry structures

# expansion

UF enlarging

GS 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 expellants experimental gas cooled reactors exhalation RT cough EGCR (reactor) expiration GS nuclear reactors ∞ discharge gas composition . gas cooled reactors expulsion metabolic wastes 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 reactors ÚSE circuits engines exploding wires multistage rocket vehicles experimental organic cooled reactors recoverable spacecraft EOCR (reactor) exploding conductors reusable spacecraft GS nuclear reactors **USE** exploding wires rocket engines . liquid cooled reactors space shuttles . organic cooled reactors exploding wires stage separation ... experimental organic cooled UF exploding conductor circuits exploding conductors reactors experience . nuclear research and test reactors explosive devices education RT . . experimental organic cooled . initiators (explosives) lessons learned exploding wires reactors qualifications . organic moderated reactors igniters upgrading . initiators (explosives) . . experimental organic cooled ... exploding wires reactors experiment design wire (LIMITED TO DESIGN OF EXPERIMENTS--EXCLUDES **Experimental Reflector Orbital Shot Proj** exploding wires EROS project boosters (explosives) PROTOTYPES)

design of experiments caps (explosives) GS programs experiment design conductors GS . projects factorial design . Experimental Reflector Orbital detonators **Shot Proi** electric wire covariance degrees of freedom plasma generators  $\infty \, design$ experimental STOL transport rsch airplane primers (explosives) USE Questol aircraft radiation transport factor analysis laboratories mathematical models shock waves experimentation wire bridge circuits experimentation operations research . Physics and Chemistry Experiment exploitation orthogonality in Space RT beneficiation quality control critical experiments depletion regression analysis exploration ∞ development statistical analysis investigation exploration systems engineering laboratories geology Taguchi methods phenomenology land use variance (statistics) spaceborne experiments mines (excavations) experimental aircraft mining expert systems USE research aircraft reserves (added August 1990) strip mining Computer programs that manipulate experimental boiling water reactors symbolic information to produce the same re-EBWR (reactor) exploration sults as human experts would. They deal with The search for deposits of useful minnuclear reactors uncertain data and make decisions on that data. erals or fossil fuels; prospecting, including under the oceans. It may include geologic reconnais-. liquid cooled reactors Input and design relies on human experts. Used for knowlege based systems. . . water cooled reactors sance, e.g., remote sensing, photogeology, geo-. . . boiling water reactors information systems GS physical and geochemical methods, and both .... experimental boiling water . knowledge based systems surface and underground investigations. Used reactors . . expert systems artificial intelligence . nuclear research and test reactors for discovering and prospecting. . . experimental boiling water UF discovering reactors belief networks prospecting C (programming language) . water moderated reactors GS exploration . . experimental boiling water computer programming . mineral exploration decision support systems natural gas exploration reactors 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 systems health monitoring . liquid cooled reactors excavation . . liquid metal cooled reactors expeditions ... Experimental Breeder Reactor expiration experimentation RT ∞ breathing exploitation . nuclear research and test reactors death geological surveys . . Experimental Breeder Reactor 1 expired air geology geothermal technology 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 **Experimental Breeder Reactor** . solutions

. . gas mixtures

. . . air

Explorer 1 satellite

GS artificial satellites

. nuclear research and test reactors

. scientific satellites . scientific satellites ... Explorer 22 satellite . . Explorer satellites . . Explorer satellites . scientific satellites ... Explorer 1 satellite . . Explorer satellites Explorer 14 satellite 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 . inflatable spacecraft . . Explorer satellites GS artificial satellites . . Beacon satellites . Explorer 15 satellite . 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 Explorer 23 satellite Scout launch vehicle ... 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 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 Delta launch vehicle Explorer 24 satellite . scientific satellites 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 18 satellite . . Explorer satellites RT Delta launch vehicle Explorer 26 satellite . scientific satellites RT Delta launch vehicle . . Explorer satellites Explorer 19 satellite Explorer 9 satellite Explorer 27 satellite UF BE C UF AD-A satellite RT Scout launch vehicle Air Density Explorer A Explorer 10 satellite GS artificial satellites Beacon Explorer C . meteorological satellites artificial satellites artificial satellites . geophysical satellites . Explorer 19 satellite . scientific satellites . scientific satellites . . Explorer 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 Explorer 20 satellite UF IMP-3 IMP-C Explorer 11 satellite Ionosphere Explorer A artificial satellites GS artificial satellites Gamma Ray Astronomy Explorer . scientific satellites . lunar satellites GS artificial satellites . . Explorer satellites . . Explorer 28 satellite . scientific satellites 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 S-3 satellite . scientific satellites . . Explorer satellites artificial satellites Explorer 29 satellite GS . geophysical satellites Explorer 21 satellite GS artificial satellites Delta launch vehicle Explorer 12 satellite . geodetic satellites . scientific satellites . . Explorer 29 satellite . . Explorer satellites **Explorer 22 satellite** . scientific satellites . . Explorer satellites . Explorer 12 satellite UF BE B

Beacon Explorer B

. navigation satellites

passive satellites

. . Beacon satellites

. . Explorer 22 satellite

artificial satellites

RT Delta launch vehicle

artificial satellites

Energetic Particle Explorer B

Explorer 14 satellite

EPE-B

UF

GS

Explorer 29 satellite

RT active satellites

ANNA satellites

celestial geodesy

GEOS 1 satellite

Delta launch vehicle

LARGOS satellite PAGEOS satellite

#### Explorer 30 satellite

UF SE-A

GS artificial satellites . scientific satellites

. . Explorer satellites

Explorer 30 satellite

Scout launch vehicle

### Explorer 31 satellite

DME-A satellite

GS artificial satellites

. scientific satellites

. . Explorer satellites

Explorer 31 satellite

Thor Agena launch vehicle

## **Explorer 32 satellite**

AE-B satellite

Atmosphere Explorer B

artificial satellites

. scientific satellites

. . Explorer satellites

Explorer 32 satellite

Delta launch vehicle

## **Explorer 33 satellite**

AIMP-1 AIMP-D

IMP-D

artificial satellites

. scientific satellites

. . Explorer satellites

Explorer 33 satellite Delta launch vehicle

#### **Explorer 34 satellite**

IMP-4

IMP-F

GS artificial satellites

. scientific satellites

. . Explorer satellites . Explorer 34 satellite

Thor Agena launch vehicle

# Explorer 35 satellite

AIMP-2 UF

AIMP-E IMP-E

artificial satellites

. scientific satellites

. . Explorer satellites

. Explorer 35 satellite

RT Thor Agena launch vehicle

#### Explorer 36 satellite

GS artificial satellites

. geodetic satellites

. . Explorer 36 satellite

. scientific satellites

. . Explorer satellites

. . Explorer 36 satellite

active satellites ANNA satellites

celestial geodesy

GEOS 2 satellite

LARGOS satellite

PAGEOS satellite

Thor Agena launch vehicle

# Explorer 37 satellite

GS artificial satellites

. scientific satellites

. . Explorer satellites

Explorer 37 satellite

Scout launch vehicle

# **Explorer 38 satellite**

UF RAE-1

GS artificial satellites

. scientific satellites

. . Explorer satellites

Explorer 38 satellite

Delta launch vehicle

### Explorer 39 satellite

326

artificial satellites GS

. scientific satellites

. . Explorer satellites

. Explorer 39 satellite

Scout launch vehicle

## **Explorer 40 satellite**

Injun 5 satellite

artificial satellites

. scientific satellites

. . Explorer satellites Explorer 40 satellite

Scout launch vehicle RT

# Explorer 41 satellite

UF IMP-5

IMP-G

artificial satellites

. scientific satellites

. . Explorer satellites

... Explorer 41 satellite

# Explorer 42 satellite

USE Uhuru satellite

#### Explorer 43 satellite

UF IMP-6

IMP-I

GS artificial satellites

. scientific satellites

. . Explorer satellites

Explorer 43 satellite

Delta launch vehicle

# Explorer 44 satellite

DEF The tenth in a series of solar radiation monitoring satellites launched from Wallops Island, VA on July 8, 1971, to measure x rays and ultraviolet radiation from the sun. It was operational until June 3, 1978. Used for Solrad 10 satellite.

Solrad 10 satellite

GS artificial satellites

. scientific satellites

. . Explorer satellites Explorer 44 satellite

# Explorer 45 satellite

DEF One in a long series of NASA scientific satellites used to study the atmosphere, ionosphere, magnetosphere, interplanetary space, etc

artificial satellites

. geophysical satellites

. . Explorer 45 satellite scientific satellites

. . Explorer satellites

... Explorer 45 satellite

# Explorer 46 satellite

DEF A satellite designed to study meteoroid protective ability of spacecraft launched from Wallops Island, VA on August 13, 1972. Two scientific experiments also on board were to determine the size and the velocity of meteoroids. The velocity experiment failed to work due to excessive heat. Used for Meteoroid Technol-

ogy Satellite. UF Meteoroid Technology Satellite

GS artificial satellites

. scientific satellites

. . Explorer satellites

Explorer 46 satellite

# **Explorer 47 satellite**

. UF *IMP-7* IMP-H

artificial satellites

. scientific satellites

. . Explorer satellites Explorer 47 satellite

#### **Explorer 48 satellite**

GS artificial satellites

. scientific satellites . . Explorer satellites

Explorer 48 satellite

SAS SAS-2

# **Explorer 49 satellite**

UF Radio Astronomy Explorer 2

Radio Astronomy Explorer B

RAE 1

RAE 2 RAE B

artificial satellites

. scientific satellites

. . Explorer satellites

. Explorer 49 satellite

Delta launch vehicle

## Explorer 50 satellite

GS

UF IMP-8

IMP-J

artificial satellites

. scientific satellites

. . Explorer satellites

Explorer 50 satellite

#### Explorer 51 satellite

UF AE-C satellite

Atmosphere Explorer C

artificial satellites

. scientific satellites

. . Explorer satellites

... Explorer 51 satellite

### Explorer 52 satellite

DEF The Hawkeye 1 satellite in the Explorer series. Used for Hawkeye 1 satellite.

Hawkeye 1 satellite

artificial satellites

. scientific satellites

. . Explorer satellites ... Explorer 52 satellite

## Explorer 53 satellite

GS artificial satellites

. scientific satellites

. . astronomical satellites

. . . SAS . Explorer 53 satellite

. . Explorer satellites

.. Explorer 53 satellite observatories

. astronomical observatories

. . astronomical satellites

... SAS

. Explorer 53 satellite RT SAS-3

Explorer 54 satellite

UF AE-D satellite

Atmosphere Explorer D

artificial satellites . scientific satellites

. . Explorer satellites ... Explorer 54 satellite

Explorer 55 satellite AE-E satellite

Atmosphere Explorer E

artificial satellites . scientific satellites

. . Explorer satellites Explorer 55 satellite

Delta launch vehicle

Explorer 71 satellite

(added November 2000) USE Advanced Composition Explorer

Explorer 73 satellite

(added November 2000) USE Transition Region and Coronal Explorer

Explorer 74 satellite

(added November 2000) USE Submillimeter Wave Astronomy Satellite

Explorer 77 satellite (added November 2000)

USE Far UV Spectroscopic Explorer

Explorer 78 satellite

USE IMAGE satellite **Explorer satellites** 

(added November 2000)

GS artificial satellites

	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		
			Thor Delta launch vehicle	explosiv	ve gases
	Dual Air Density Explorer		zodiacal dust		flammable gases
	. Dynamics Explorer satellites		200,000,000		J
	Dynamics Explorer 1 satellite	explos	ion suppression	explosi	ive welding
	Dynamics Explorer 2 satellite	DEF	Any method used to confine or sup-	GS	bonding
	Explorer 1 satellite		n explosion.	0.0	. explosive welding
_	Explorer 2 satellite	RT			welding
	Explorer 3 satellite	п	foams		. pressure welding
	Explorer 4 satellite				
	Explorer 5 satellite		retardants	ОТ	explosive welding
	Explorer 6 satellite			RT	cladding
	•	explos			metal bonding
	Explorer 7 satellite		The sudden production of large quan-		metal joints
	Explorer 8 satellite	tities of	gases, usually hot, from much smaller		metal working
	Explorer 9 satellite	amount	s of gases, liquids, or solids.		metal-metal bonding
	Explorer 10 satellite	GS	explosions		
	Explorer 11 satellite		. aerial explosions	explosi	ives
	Explorer 12 satellite		chemical explosions	GS	explosives
	Explorer 14 satellite		gas explosions		. BSX
	. Explorer 15 satellite		propellant explosions		. cellulose nitrate
	Explorer 16 satellite		. nuclear explosions		. dynamite
	Explorer 17 satellite		thermonuclear explosions		. HMX
	Explorer 18 satellite		•		. hydrazine nitroform
	Explorer 19 satellite		. underground explosions		. hydrazine milolom . hydrogen azides
	Explorer 20 satellite	БТ	. underwater explosions		, 0
		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	
	Explorer 29 satellite		explosives		ammunition
	Explorer 30 satellite		fires		azides (organic)
	Explorer 31 satellite				
	Explorer 32 satellite		flame propagation		bombs (ordnance)
			∞ flash		burning rate
	Explorer 33 satellite		flashback		case bonded propellants
	Explorer 34 satellite		hazards	c	∞ charging
	Explorer 35 satellite		hydrocarbon combustion		chemical explosions
	Explorer 36 satellite		implosions		chemical fuels
	Explorer 37 satellite		reactor safety		composite propellants
	Explorer 38 satellite		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		warning systems		fulminates
	Explorer 46 satellite	avalaa	ive decempression		
	Explorer 47 satellite		ive decompression		gun propellants
	·	dS	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				ordnance
	Explorer 54 satellite	explos	ive devices		PETN
	Explorer 55 satellite	UF	cartridge actuated devices		plastic propellants
	Extreme Ultraviolet Explorer	GS	explosive devices		potassium perchlorates
	satellite		. bombs (ordnance)		powder (particles)
	Far UV Spectroscopic Explorer		. initiators (explosives)		propellants
	IMP		boosters (explosives)		pyrophoric materials
	. International Magnetospheric		caps (explosives)		pyrotechnics
	Explorer		detonators		shaped charges
			evnlodina wires		endium azidee
	. International Sun Earth Explorers		exploding wires		sodium azides
			primers (explosives)		TAGN
	. International Sun Earth Explorers International Sun Earth Explorer 1		primers (explosives) . nuclear devices		TAGN torpedoes
	. International Sun Earth Explorers		primers (explosives) . nuclear devices . shaped charges		TAGN
	International Sun Earth Explorers International Sun Earth Explorer 1 International Sun Earth Explorer 2		primers (explosives) . nuclear devices . shaped charges . torpedoes		TAGN torpedoes warheads
	. International Sun Earth Explorers International Sun Earth Explorer 1	RT	primers (explosives) . nuclear devices . shaped charges	explosi	TAGN torpedoes
	International Sun Earth Explorers International Sun Earth Explorer 1 International Sun Earth Explorer 2 International Sun Earth Explorer 3	RT	primers (explosives) . nuclear devices . shaped charges . torpedoes	(add	TAGN torpedoes warheads ives detection led September 1995)
	International Sun Earth Explorers International Sun Earth Explorer 1 International Sun Earth Explorer 2 International Sun Earth Explorer 3 Advanced Composition Explorer		primers (explosives) . nuclear devices . shaped charges . torpedoes actuators	(add	TAGN torpedoes warheads ives detection
	International Sun Earth Explorers International Sun Earth Explorer 1 International Sun Earth Explorer 2 International Sun Earth Explorer 3	c	. primers (explosives) . nuclear devices . shaped charges . torpedoes actuators ammunition	(add	TAGN torpedoes warheads ives detection led September 1995)
	International Sun Earth Explorers International Sun Earth Explorer 1 International Sun Earth Explorer 2 International Sun Earth Explorer 3 Advanced Composition Explorer	c	. primers (explosives) . nuclear devices . shaped charges . torpedoes actuators ammunition ∞ charging	(add	TAGN torpedoes warheads ives detection led September 1995) detection
	International Sun Earth Explorers International Sun Earth Explorer 1 International Sun Earth Explorer 2 International Sun Earth Explorer 3 Advanced Composition Explorer IMAGE satellite Micrometeoroid Explorer satellites	c	primers (explosives) . nuclear devices . shaped charges . torpedoes actuators ammunition  charging devices explosives detection	(add GS	TAGN torpedoes warheads  ives detection ed September 1995) detection . chemical detection . explosives detection
	International Sun Earth Explorers International Sun Earth Explorer 1 International Sun Earth Explorer 2 International Sun Earth Explorer 3 Advanced Composition Explorer IMAGE satellite Micrometeoroid Explorer satellites Radio Astronomy Explorer	•	. primers (explosives) . nuclear devices . shaped charges . torpedoes actuators ammunition  charging devices explosives detection igniters	(add GS	TAGN torpedoes warheads  ives detection led September 1995) detection . chemical detection explosives detection airport security
	International Sun Earth Explorers International Sun Earth Explorer 1 International Sun Earth Explorer 2 International Sun Earth Explorer 3 Advanced Composition Explorer IMAGE satellite Micrometeoroid Explorer satellites Radio Astronomy Explorer satellite	•	. primers (explosives) . nuclear devices . shaped charges . torpedoes actuators ammunition  charging devices explosives detection igniters  propellant actuated devices	(add GS	TAGN torpedoes warheads  ives detection led September 1995) detection . chemical detection explosives detection airport security explosive devices
	International Sun Earth Explorers International Sun Earth Explorer 1 International Sun Earth Explorer 2 International Sun Earth Explorer 3 Advanced Composition Explorer IMAGE satellite Micrometeoroid Explorer satellites Radio Astronomy Explorer satellite Solar Mesosphere Explorer	•	. primers (explosives) . nuclear devices . shaped charges . torpedoes actuators ammunition  charging devices explosives detection igniters	(add GS	TAGN torpedoes warheads  ives detection led September 1995) detection . chemical detection explosives detection airport security explosive devices ion mobility spectroscopy
	International Sun Earth Explorers International Sun Earth Explorer 1 International Sun Earth Explorer 2 International Sun Earth Explorer 3 Advanced Composition Explorer IMAGE satellite Micrometeoroid Explorer satellites Radio Astronomy Explorer satellite Solar Mesosphere Explorer Submillimeter Wave Astronomy	•	. primers (explosives) . nuclear devices . shaped charges . torpedoes actuators ammunition ∞ charging ∞ devices explosives detection igniters ∞ propellant actuated devices warheads	(add GS	TAGN torpedoes warheads  ives detection led September 1995) detection . chemical detection explosives detection airport security explosive devices
	International Sun Earth Explorers International Sun Earth Explorer 1 International Sun Earth Explorer 2 International Sun Earth Explorer 3 Advanced Composition Explorer IMAGE satellite Micrometeoroid Explorer satellites Radio Astronomy Explorer satellite Solar Mesosphere Explorer Submillimeter Wave Astronomy Satellite	explos	. primers (explosives) . nuclear devices . shaped charges . torpedoes actuators ammunition  charging devices explosives detection igniters propellant actuated devices warheads  ive forming	(add GS RT	TAGN torpedoes warheads  ives detection led September 1995) detection . chemical detection explosives detection airport security explosive devices ion mobility spectroscopy terrorism
	International Sun Earth Explorers International Sun Earth Explorer 1 International Sun Earth Explorer 2 International Sun Earth Explorer 3 Advanced Composition Explorer IMAGE satellite Micrometeoroid Explorer satellites Radio Astronomy Explorer satellite Solar Mesosphere Explorer Submillimeter Wave Astronomy Satellite Transition Region and Coronal	explos	primers (explosives) . nuclear devices . shaped charges . torpedoes actuators ammunition  charging devices explosives detection igniters propellant actuated devices warheads  ive forming forming techniques	(add GS RT expone	TAGN torpedoes warheads  ives detection led September 1995) detection . chemical detection explosives detection airport security explosive devices ion mobility spectroscopy terrorism
	International Sun Earth Explorers International Sun Earth Explorer 1 International Sun Earth Explorer 2 International Sun Earth Explorer 3 Advanced Composition Explorer IMAGE satellite Micrometeoroid Explorer satellites Radio Astronomy Explorer satellite Solar Mesosphere Explorer Submillimeter Wave Astronomy Satellite Transition Region and Coronal Explorer	explos	primers (explosives) . nuclear devices . shaped charges . torpedoes actuators ammunition charging devices explosives detection igniters propellant actuated devices warheads  ive forming forming techniques . cold working	(add GS RT	TAGN torpedoes warheads  ives detection led September 1995) detection . chemical detection airport security explosive devices ion mobility spectroscopy terrorism  ential functions analysis (mathematics)
	International Sun Earth Explorers International Sun Earth Explorer 1 International Sun Earth Explorer 2 International Sun Earth Explorer 3 Advanced Composition Explorer IMAGE satellite Micrometeoroid Explorer satellites Radio Astronomy Explorer satellite Solar Mesosphere Explorer Submillimeter Wave Astronomy Satellite Transition Region and Coronal Explorer Uhuru satellite	explos	primers (explosives) . nuclear devices . shaped charges . torpedoes actuators ammunition ∞ charging ∞ devices explosives detection igniters ∞ propellant actuated devices warheads ive forming forming techniques . cold working explosive forming	(add GS RT expone	TAGN torpedoes warheads  ives detection led September 1995) detection . chemical detection airport security explosive devices ion mobility spectroscopy terrorism  ential functions analysis (mathematics) . complex variables
	International Sun Earth Explorers International Sun Earth Explorer 1 International Sun Earth Explorer 2 International Sun Earth Explorer 3 Advanced Composition Explorer IMAGE satellite Micrometeoroid Explorer satellites Radio Astronomy Explorer solar Mesosphere Explorer Solar Mesosphere Explorer Submillimeter Wave Astronomy Satellite Transition Region and Coronal Explorer Uhuru satellite X Ray Timing Explorer	explos	. primers (explosives) . nuclear devices . shaped charges . torpedoes actuators ammunition  charging devices explosives detection igniters propellant actuated devices warheads  ive forming forming techniques . cold working . explosive forming metal working	(add GS RT expone	TAGN torpedoes warheads  ives detection led September 1995) detection . chemical detection airport security explosive devices ion mobility spectroscopy terrorism ential functions analysis (mathematics) . complex variables . exponential functions
	International Sun Earth Explorers International Sun Earth Explorer 1 International Sun Earth Explorer 2 International Sun Earth Explorer 3 Advanced Composition Explorer IMAGE satellite Micrometeoroid Explorer satellites Radio Astronomy Explorer satellite Solar Mesosphere Explorer Submillimeter Wave Astronomy Satellite Transition Region and Coronal Explorer Uhuru satellite	explos	primers (explosives) . nuclear devices . shaped charges . torpedoes actuators ammunition  charging devices explosives detection igniters propellant actuated devices warheads  ive forming forming techniques . cold working explosive forming metal working . explosive forming . explosive forming	(add GS RT expone	TAGN torpedoes warheads  ives detection led September 1995) detection . chemical detection airport security explosive devices ion mobility spectroscopy terrorism  ential functions analysis (mathematics) . complex variables

	. transcendental functions		storage tanks		propellant tanks
	exponential functions logarithms	extars			Space Shuttle Ascent Stage storage tanks
RT	Fourier analysis		x ray stars		wing tanks
	hyperbolic functions		•		
	orthogonal functions		d duration space flight		ly blown flaps
	Poisson density functions	USE	long duration space flight	UF	blown flaps EBF
	probability density functions statistical analysis	extensio	ons	GS	airfoils
	Weibull density functions	GS	extensions		. flaps (control surfaces)
		DT	. prolongation		externally blown flaps upper surface blown flaps
exponer	nte	RT	accessories adapters		control surfaces
GS	number theory		contracts		. flaps (control surfaces)
	exponents		decontamination		externally blown flaps
RT	arithmetic		expansion filling	RT	upper surface blown flaps blowing
	fractals logarithms		fittings	111	jet flaps
			insurance (contracts)		lift
			revisions		lift devices powered lift aircraft
exports USE	international trade		supplements		short takeoff aircraft
OOL	menatorial trade	extenso	meters		spanwise blowing
		DEF	Devices for determining the elongation		wing flaps
	(Spacelab payload) X ray spectropolarimetry payload for	of a spece	cimen as it is strained. Used for dilatom-		wing nacelle configurations
	b. Used for X Ray Spectropolarimetry	UF	dilatometers	extinction	on
Payload.			measuring instruments	GS	extinction
UF	X Ray Spectropolarimetry Payload	БТ	. extensometers	RT	. interstellar extinction Cenozoic Era
GS	payloads . EXPOS (Spacelab payload)		deformeters dilatometry	111	Cretaceous-Tertiary boundary
RT	European Space Agency		elastometers		evolution (development)
• • • •	Spacelab		mechanical measurement		extinguishing
			strain gages		fading fluorescence
exposur	9		stress measurement tensometers		laser induced fluorescence
•	exposure		thermal expansion		Nemesis (star)
	. weathering		transducers	extinguis	chare
	space weathering	ovtornol	combustion engines		fire extinguishers
RT	. photoperiod atmospheric effects		combustion engines engines	ovtingui	ohina
	bearing (direction)	0.0	. external combustion engines	extingui UF	flame quenching
	bioavailability		Stirling engines	GS	extinguishing
	cold tolerance dosimeters		automobile engines boilers	БТ	flameout
	irradiation		gas turbine engines	RT	burnout
	photography		internal combustion engines		combustion extinction
	photography position (location)				extinction occultation
	photography position (location) positioning		internal combustion engines piston engines	00	extinction occultation quenching
	photography position (location)		internal combustion engines	œ	extinction occultation
	photography position (location) positioning radiation dosage	<b>external</b> UF	internal combustion engines piston engines  store separation store release nacelles	extraction	extinction occultation quenching quenching (cooling)
	photography position (location) positioning radiation dosage time	<b>external</b> UF	internal combustion engines piston engines  store separation store release nacelles pods (external stores)		extinction occultation quenching quenching (cooling) on extraction
expressi	photography position (location) positioning radiation dosage time trinitrotoluene	<b>external</b> UF RT	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances	extraction	extinction occultation quenching quenching (cooling)
	photography position (location) positioning radiation dosage time	external UF RT	internal combustion engines piston engines  store separation store release nacelles pods (external stores)	<b>extracti</b> c GS	extinction occultation quenching quenching (cooling) on extraction . geothermal energy extraction . ion extraction . solvent extraction
	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics)	external UF RT	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks	extraction	extinction occultation quenching quenching (cooling) on extraction . geothermal energy extraction . ion extraction . solvent extraction beds (process engineering)
ÚSE	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)	external UF RT	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage	<b>extracti</b> c GS	extinction occultation quenching quenching (cooling) on extraction . geothermal energy extraction . ion extraction . solvent extraction beds (process engineering) beneficiation
	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)	external UF RT	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks wing-fuselage stores	<b>extracti</b> c GS	extinction occultation quenching quenching (cooling) on extraction . geothermal energy extraction . ion extraction . solvent extraction beds (process engineering)
ÚSE <b>expulsi</b> o	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)  on acceleration (physics) circuit protection	external UF RT	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks wing-fuselage stores  stores external stores	<b>extracti</b> c GS	extinction occultation quenching quenching (cooling)  on extraction . geothermal energy extraction . ion extraction . solvent extraction beds (process engineering) beneficiation centrifuges centrifuging columns (process engineering)
ÚSE <b>expulsi</b> o	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)  on acceleration (physics) circuit protection disposal	external UF RT	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks wing-fuselage stores  stores external stores . pods (external stores)	<b>extracti</b> c GS	extinction occultation quenching quenching (cooling)  on  extraction . geothermal energy extraction . ion extraction . solvent extraction beds (process engineering) beneficiation centrifuges centrifuging columns (process engineering) concentrating
ÚSE <b>expulsi</b> o	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)  on acceleration (physics) circuit protection disposal dumping	external UF RT	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles	<b>extracti</b> c GS	extinction occultation quenching quenching (cooling)  on extraction . geothermal energy extraction . ion extraction . solvent extraction beds (process engineering) beneficiation centrifuges centrifuging columns (process engineering)
ÚSE <b>expulsi</b> o	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)  on acceleration (physics) circuit protection disposal	external UF RT	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks wing-fuselage stores  stores external stores . pods (external stores)	<b>extracti</b> c GS	extinction occultation quenching quenching (cooling) on extraction . geothermal energy extraction . solvent extraction beds (process engineering) beneficiation centrifuges centrifuging columns (process engineering) concentrating dialysis
ÚSE <b>expulsi</b> o	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)  on acceleration (physics) circuit protection disposal dumping ejection emptying excretion	external UF RT	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks	<b>extracti</b> c GS	extinction occultation quenching quenching (cooling)  on  extraction . geothermal energy extraction . ion extraction . solvent extraction beds (process engineering) beneficiation centrifuges centrifuging columns (process engineering) concentrating dialysis diffusion dissolving elution
ÚSE <b>expulsi</b> o	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)  on acceleration (physics) circuit protection disposal dumping ejection emptying excretion exhaust velocity	external UF RT	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage	<b>extracti</b> c GS	extinction occultation quenching quenching (cooling) on extraction . geothermal energy extraction . solvent extraction beds (process engineering) beneficiation centrifuges centrifuging columns (process engineering) concentrating dialysis diffusion dissolving elution filtration
ÚSE <b>expulsi</b> o	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)  on acceleration (physics) circuit protection disposal dumping ejection emptying excretion exhaust velocity expellants	external UF RT Sexternal GS RT Sexternal GS	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks	<b>extracti</b> c GS	extinction occultation quenching quenching (cooling) on extraction . geothermal energy extraction . solvent extraction beds (process engineering) beneficiation centrifuges centrifuging columns (process engineering) concentrating dialysis diffusion dissolving elution filtration furnaces
ÚSE <b>expulsi</b> o	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)  on acceleration (physics) circuit protection disposal dumping ejection emptying excretion exhaust velocity expellants expiration fluid flow	external UF RT   external GS RT  external	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) protuberances stores external stores protuberances storage wing tanks wing-fuselage stores	<b>extracti</b> c GS	extinction occultation quenching quenching quenching (cooling)  on extraction . geothermal energy extraction . ion extraction . solvent extraction beds (process engineering) beneficiation centrifuges centrifuging columns (process engineering) concentrating dialysis diiffusion dissolving elution filtration furnaces hydrolysis leaching
ÚSE <b>expulsi</b> o	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)  on acceleration (physics) circuit protection disposal dumping ejection emptying excretion exhaust velocity expellants expiration fluid flow gravity gradient satellites	external UF RT  external GS RT  external GS	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  surface currents electric current . external surface currents	<b>extracti</b> c GS	extinction occultation quenching quenching (cooling) on extraction . geothermal energy extraction . solvent extraction beds (process engineering) beneficiation centrifuges centrifuging columns (process engineering) concentrating dialysis diffusion dissolving elution filtration furnaces hydrolysis leaching material absorption
ÚSE <b>expulsi</b> o	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)  on acceleration (physics) circuit protection disposal dumping ejection emptying excretion exhaust velocity expellants expiration fluid flow gravity gradient satellites jettisoning	external UF RT  external GS RT  external GS	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  surface currents electric current . external surface currents currents	<b>extracti</b> c GS	extinction occultation quenching quenching (cooling) on extraction . geothermal energy extraction . solvent extraction beds (process engineering) beneficiation centrifuges centrifuging columns (process engineering) concentrating dialysis diffusion dissolving elution filtration furnaces hydrolysis leaching material absorption materials recovery
ÚSE <b>expulsi</b> o	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)  on acceleration (physics) circuit protection disposal dumping ejection emptying excretion exhaust velocity expellants expiration fluid flow gravity gradient satellites	external GS RT  external GS RT  external GS RT	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  surface currents electric current . external surface currents	<b>extracti</b> c GS	extinction occultation quenching quenching (cooling) on extraction . geothermal energy extraction . solvent extraction beds (process engineering) beneficiation centrifuges centrifuging columns (process engineering) concentrating dialysis diffusion dissolving elution filtration furnaces hydrolysis leaching material absorption
ÚSE <b>expulsi</b> o	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)  on acceleration (physics) circuit protection disposal dumping ejection emptying excretion exhaust velocity expellants expiration fluid flow gravity gradient satellites jettisoning particle emission pressurizing removal	external GS RT  external GS RT  external GS RT	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  surface currents electric current . external surface currents currents electric fields electromagnetic fields electromagnetic missiles	<b>extracti</b> c GS	extinction occultation quenching quenching (cooling)  on extraction . geothermal energy extraction . ion extraction . solvent extraction beds (process engineering) beneficiation centrifuges centrifuging columns (process engineering) concentrating dialysis diiffusion dissolving elution filtration furnaces hydrolysis leaching material absorption materials recovery melting osmosis percolation
ÚSE <b>expulsi</b> o	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)  on acceleration (physics) circuit protection disposal dumping ejection emptying excretion exhaust velocity expellants expiration fluid flow gravity gradient satellites jettisoning particle emission pressurizing	external UF RT  external GS RT  external GS RT  external GS RT	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks wing-fuselage stores  stores external stores protuberances storage stores external stores protuberances storage storage wing tanks wing-fuselage stores  stores external stores protuberances storage wing tanks wing-fuselage stores storage s	<b>extracti</b> c GS	extinction occultation quenching quenching (cooling) on extraction . geothermal energy extraction . solvent extraction beds (process engineering) beneficiation centrifuges centrifuging columns (process engineering) concentrating dialysis diffusion dissolving elution filtration furnaces hydrolysis leaching material absorption materials recovery melting osmosis percolation recycling
ÚSE <b>expulsi</b> o	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)  on acceleration (physics) circuit protection disposal dumping ejection emptying excretion exhaust velocity expellants expiration fluid flow gravity gradient satellites jettisoning particle emission pressurizing removal	external UF RT  external GS RT  external GS RT  external GS RT	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  surface currents electric current . external surface currents currents electric fields electromagnetic fields electromagnetic missiles	<b>extracti</b> c GS	extinction occultation quenching quenching (cooling)  on extraction . geothermal energy extraction . ion extraction . solvent extraction beds (process engineering) beneficiation centrifuges centrifuging columns (process engineering) concentrating dialysis diiffusion dissolving elution filtration furnaces hydrolysis leaching material absorption materials recovery melting osmosis percolation
ÚSE expulsio RT	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)  on acceleration (physics) circuit protection disposal dumping ejection emptying excretion exhaust velocity expellants expiration fluid flow gravity gradient satellites jettisoning particle emission pressurizing removal	external UF RT  external GS RT  external GS RT  external GS RT	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  surface currents electric current . external surface currents currents electric fields electromagnetic fields electromagnetic missiles electromagnetic pulses levitation melting	extraction GS	extinction occultation quenching quenching (cooling) on extraction . geothermal energy extraction . solvent extraction beds (process engineering) beneficiation centrifuges centrifuging columns (process engineering) concentrating dialysis diffusion dissolving elution filtration furnaces hydrolysis leaching material absorption materials recovery melting osmosis percolation recycling refining
ÚSE expulsio RT	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)  on acceleration (physics) circuit protection disposal dumping ejection emptying excretion exhaust velocity expellants expiration fluid flow gravity gradient satellites jettisoning particle emission pressurizing removal unloading  on bladders diaphragms (mechanics)	external UF RT  external GS RT  external GS RT  external	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks wing-fuselage stores  stores external stores, pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  surface currents electric current . external surface currents currents electric fields electromagnetic fields electromagnetic missiles electromagnetic pulses levitation melting photoelectric emission spacecraft charging surfaces	extraction GS	extinction occultation quenching quenching (cooling) on extraction . geothermal energy extraction . solvent extraction beds (process engineering) beneficiation centrifuges centrifuging columns (process engineering) concentrating dialysis diffusion dissolving elution filtration furnaces hydrolysis leaching material absorption materials recovery melting osmosis percolation recycling refining removal separation solvents
ÚSE  expulsio  RT  expulsio  GS	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)  on acceleration (physics) circuit protection disposal dumping ejection emptying excretion exhaust velocity expellants expiration fluid flow gravity gradient satellites jettisoning particle emission pressurizing removal unloading  on bladders diaphragms (mechanics) . expulsion bladders	external UF RT  external GS RT  external GS RT  external	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  surface currents electric current . external surface currents currents electric fields electromagnetic fields electromagnetic missiles electromagnetic pulses levitation melting photoelectric emission spacecraft charging surfaces system generated electromagnetic	extraction GS	extinction occultation quenching quenching (cooling) on extraction . geothermal energy extraction . solvent extraction beds (process engineering) beneficiation centrifuges centrifuging columns (process engineering) concentrating dialysis diffusion dissolving elution filtration furnaces hydrolysis leaching material absorption materials recovery melting osmosis percolation recycling refining removal separation solvents sorption
ÚSE  expulsio	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)  on acceleration (physics) circuit protection disposal dumping ejection emptying excretion exhaust velocity expellants expiration fluid flow gravity gradient satellites jettisoning particle emission pressurizing removal unloading  on bladders diaphragms (mechanics) . expulsion bladders bellows	external UF RT  external GS RT  external GS RT  external	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks wing-fuselage stores  stores external stores, pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  surface currents electric current . external surface currents currents electric fields electromagnetic fields electromagnetic missiles electromagnetic pulses levitation melting photoelectric emission spacecraft charging surfaces	extraction GS	extinction occultation quenching quenching (cooling) on extraction . geothermal energy extraction . solvent extraction beds (process engineering) beneficiation centrifuges centrifuging columns (process engineering) concentrating dialysis diffusion dissolving elution filtration furnaces hydrolysis leaching material absorption materials recovery melting osmosis percolation recycling refining removal separation solvents sorption washers (cleaners)
ÚSE  expulsio  RT  expulsio  GS	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)  on acceleration (physics) circuit protection disposal dumping ejection emptying excretion exhaust velocity expellants expiration fluid flow gravity gradient satellites jettisoning particle emission pressurizing removal unloading  on bladders diaphragms (mechanics) . expulsion bladders	external UF RT  external GS RT  external GS RT  external	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  surface currents electric current . external surface currents currents electric fields electromagnetic fields electromagnetic missiles electromagnetic missiles electromagnetic emission spacecraft charging surfaces system generated electromagnetic pulses  tanks	extraction GS RT	extinction occultation quenching quenching (cooling) on extraction . geothermal energy extraction . solvent extraction beds (process engineering) beneficiation centrifuges centrifuging columns (process engineering) concentrating dialysis diffusion dissolving elution filtration furnaces hydrolysis leaching material absorption materials recovery melting osmosis percolation recycling refining removal separation solvents sorption washers (cleaners) actic light
ÚSE  expulsio  RT  expulsio  GS	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)  on acceleration (physics) circuit protection disposal dumping ejection emptying excretion exhaust velocity expellants expiration fluid flow gravity gradient satellites jettisoning particle emission pressurizing removal unloading  on bladders diaphragms (mechanics) . expulsion bladders bellows ejection emptying expandable structures	external UF RT  external GS RT  external GS RT  o	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  storage wing tanks wing-fuselage stores  surface currents electric current . external surface currents currents electric fields electromagnetic fields electromagnetic missiles electromagnetic missiles electromagnetic pulses levitation melting photoelectric emission spacecraft charging surfaces system generated electromagnetic pulses  tanks Shuttle Superlightweight Tank	extraction GS RT	extinction occultation quenching quenching (cooling) on extraction . geothermal energy extraction . solvent extraction beds (process engineering) beneficiation centrifuges centrifuging columns (process engineering) concentrating dialysis diffusion dissolving elution filtration furnaces hydrolysis leaching material absorption materials recovery melting osmosis percolation recycling refining removal separation solvents sorption washers (cleaners)
ÚSE  expulsio  RT  expulsio  GS	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)  on acceleration (physics) circuit protection disposal dumping ejection emptying excretion exhaust velocity expellants expiration fluid flow gravity gradient satellites jettisoning particle emission pressurizing removal unloading  on bladders diaphragms (mechanics) . expulsion bladders bellows ejection emptying expandable structures fuel tank pressurization	external UF RT  external GS RT  external GS RT  external UF	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  storage wing tanks wing-fuselage stores  surface currents electric current . external surface currents currents electric fields electromagnetic fields electromagnetic fields electromagnetic missiles electromagnetic enission spacecraft charging surfaces system generated electromagnetic pulses  tanks Shuttle Superlightweight Tank SLWT (propellant tank)	extraction GS  RT  extragalation USE extragalation extragalation extragalation extragation	extinction occultation quenching quenching (cooling) on extraction . geothermal energy extraction . solvent extraction beds (process engineering) beneficiation centrifuges centrifuging columns (process engineering) concentrating dialysis diffusion dissolving elution filtration furnaces hydrolysis leaching material absorption materials recovery melting osmosis percolation recycling refining removal separation solvents sorption washers (cleaners) actic light extraterrestrial radiation actic media
ÚSE  expulsio  RT  expulsio  GS	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)  on acceleration (physics) circuit protection disposal dumping ejection emptying excretion exhaust velocity expellants expiration fluid flow gravity gradient satellites jettisoning particle emission pressurizing removal unloading  on bladders diaphragms (mechanics) . expulsion bladders bellows ejection emptying expandable structures	external UF RT  external GS RT  external GS RT  external UF	internal combustion engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  storage wing tanks wing-fuselage stores  surface currents electric current . external surface currents currents electric fields electromagnetic fields electromagnetic missiles electromagnetic missiles electromagnetic pulses levitation melting photoelectric emission spacecraft charging surfaces system generated electromagnetic pulses  tanks Shuttle Superlightweight Tank	extraction GS  RT  extragalation USE extragalation extragalation extragalation extragation	extinction occultation quenching quenching (cooling) on extraction . geothermal energy extraction . solvent extraction beds (process engineering) beneficiation centrifuges centrifuging columns (process engineering) concentrating dialysis diffusion dissolving elution filtration furnaces hydrolysis leaching material absorption materials recovery melting osmosis percolation recycling refining removal separation solvents sorption washers (cleaners) actic light extraterrestrial radiation
ÚSE  expulsio  RT  expulsio  GS	photography position (location) positioning radiation dosage time trinitrotoluene  ons (mathematics) formulas (mathematics)  on acceleration (physics) circuit protection disposal dumping ejection emptying excretion exhaust velocity expellants expiration fluid flow gravity gradient satellites jettisoning particle emission pressurizing removal unloading  on bladders diaphragms (mechanics) expulsion bladders bellows ejection emptying expandable structures fuel tanks	external GS RT ©  external GS RT ©  external GS RT ©  external GS RT ©	internal combustion engines piston engines piston engines  store separation store release nacelles pods (external stores) protuberances separation storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  stores external stores . pods (external stores) nacelles protuberances storage wing tanks wing-fuselage stores  surface currents electric current . external surface currents currents electric fields electromagnetic missiles electromagnetic missiles electromagnetic pulses levitation melting photoelectric emission spacecraft charging surfaces system generated electromagnetic pulses  tanks  Shuttle Superlightweight Tank SLWT (propellant tank) tanks (containers)	extraction GS  RT  extragala USE  extragala USE	extinction occultation quenching quenching (cooling) on extraction . geothermal energy extraction . solvent extraction beds (process engineering) beneficiation centrifuges centrifuging columns (process engineering) concentrating dialysis diffusion dissolving elution filtration furnaces hydrolysis leaching material absorption materials recovery melting osmosis percolation recycling refining removal separation solvents sorption washers (cleaners) actic light extraterrestrial radiation actic media

. 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 RT 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 radio astronomy on Earth. gegenschein intelligence interstellar radiation radio emission GS extraterrestrial intelligence . lunar radiation ∞ sources interstellar communication . planetary radiation . primary cosmic rays extrapolation interstellar travel finite difference theory Project SETI forecasting space communication . solar radiation interpolation unidentified flying objects . . circumsolar radiation periodic variations . . solar corpuscular radiation extraterrestrial life solar electrons quality control 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 . . solar radio emission aerospace environments biofilms extrasensory perception solar radio bursts parapsychology biomarkers . type 2 bursts GS 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 exosolar planets . cosmic gases ∞ 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 . . . interplanetary dust planet detection CRRES (satellite) planetary systems 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 ∞ radiation (added June 2001) . extraterrestrial environments SN DEF (EXCLUDES MAGMA OCEANS)
Extensive bodies of water on planets radiation belts . . cislunar space radiative transfer . . deep space . . . interplanetary space and moons. radio jets (astronomy) UF planetary oceans radio waves . interstellar space
Earth orbital environments satellite oceans ∞ rays GS oceans relic radiation extraterrestrial oceans . . lunar environment 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 DEF 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 . . radio bursts . . . . . type 4 bursts . . satellite atmospheres . . . solar radio bursts . . . . type 5 bursts lunar atmosphere . type 2 bursts solar radio emission . . . Titan atmosphere . . . type 3 bursts . . . . solar radio bursts .... type 4 bursts .... type 5 bursts . . stellar atmospheres . . . . . type 2 bursts . . . chromosphere . . . . type 3 bursts

. . solar radio emission

. . . solar radio bursts

. . . . type 2 bursts

. . . . type 3 bursts

... solar atmosphere

aerospace environments

high gravity environments

. . . solar transition region

. . . . type 4 bursts

. . . . type 5 bursts

... cosmic microwave background

radiation

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 . . North Polar Spur (astronomy) probability theory environmental protection, life support, mobility, . . 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 . . pultrusion . . . type 4 bursts ... 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 ∞ drawing **IMLSS** microwave emission explosive forming life support systems injection molding microwaves self maneuvering units intrusion millimeter waves space transportation system metal spinning radio astronomy metal working radio emission extrema piercing radio frequency interference USE range (extremes) pressing (forming) radio jets (astronomy) squeeze casting radio sources (astronomy) **Extreme Ultraviolet Explorer satellite** wet spinning DEF An Explorer satellite carrying scientific extraterrestrial resources instruments for scanning the sky in the 100-900 eye (anatomy) GS resources Angstrom region of the spectrum to study the GS anatomy extraterrestrial resources very hot celestial bodies (white dwarfs, for ex-. sense organs . lunar resources ample). Used for EUVE. . . eye (anatomy) RT in situ resource utilization UF **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. hydrosphere, and atmosphere of the Earth; inlenses electromagnetic radiation GS cludes the water content of interstellar matter, miosis . ultraviolet radiation comets, planets, and satellites. nystagmus . extreme ultraviolet radiation GS water ophthalmodynamometry beams (radiation) extraterrestrial water ophthalmology ionizing radiation Europa optometry Magellan ultraviolet astronomy exobiology photoreceptors 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 . . asthenopia planetary composition 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 population within a given confidence interval. self maneuvering units eye movements analysis (mathematics) space flight GS eve movements space maintenance . real variables . nystagmus Space Shuttle payloads . . extremum values . vestibular nystagmus umbilical connectors ... limits (mathematics) Saccadic eye movements blinking electronystagmography . . . maxima weightlessness

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RT Euler-Lagrange equation

. Cramer-Rao bounds

head movement

oculometers

extravehicular mobility units

(LIMITED TO SPACE SUIT UNITS OF

rapid eye movement state visual tasks

**eye protection**GS protection

. eye protection RT flash blindness goggles sunglasses

visors

lenses microscopes periscopes reticles

sunglasses telescopes

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

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F 1 reg GS			jet aircraft . F-2 aircraft	RT	∞ aircraft
us	Earth atmosphere . upper atmosphere		monoplanes	F9F air	craft
	Earth ionosphere		. F-2 aircraft		F-9 aircraft
	upper ionosphere	RT ·	∞ aircraft		
	F region			F-14 ai	rcraft
	F 1 region	F-4 aire	eraft	GS	attack aircraft
	regions	UF	F-110 aircraft		. fighter aircraft
	. F region F 1 region		F4H aircraft		F-14 aircraft
	F i region		Phantom aircraft		Grumman aircraft . F-14 aircraft
F 2 reg	ion		RF-4 aircraft		jet aircraft
GS	Earth atmosphere	GS	attack aircraft		. F-14 aircraft
	. upper atmosphere		fighter aircraft		supersonic aircraft
	Earth ionosphere		F-4 aircraft		. F-14 aircraft
	upper ionosphere		jet aircraft . F-4 aircraft	RT «	∞ aircraft
	F region		McDonnell Douglas aircraft		
	F 2 region		. Mcdonnell aircraft	F-15 ai	rcraft
	regions		F-4 aircraft	GS	attack aircraft
	. F region F 2 region		monoplanes		. fighter aircraft
RT	spread F		F-4 aircraft		F-15 aircraft
111	transequatorial propagation		supersonic aircraft		jet aircraft . <b>F-15 aircraft</b>
	transoquatoriai propagation		. F-4 aircraft		supersonic aircraft
F cente	rs	RT -	∞ aircraft		. F-15 aircraft
USE	color centers		J-79 engine	RT «	∞ aircraft
					anoran
F displa		F4H aii	rcraft	F-16 ai	rcraft
USE	F region	USE	F-4 aircraft	UF	YF-16 aircraft
C 1				GS	attack aircraft
Flayer	Erogion	F-5 aire	raft		. fighter aircraft
USE	F region	UF	Freedom Fighter aircraft		F-16 aircraft
F regio	n	O.	N-156 aircraft		jet aircraft
SN	(ALTITUDES ABOVE APPROXIMATELY	GS	attack aircraft		F-16 aircraft
	160 KM)		. COIN aircraft		single engine aircraft . F-16 aircraft
DEF .	A portion of he ionosphere extending		F-5 aircraft		supersonic aircraft
	out 150 to 1000 km. The F region is		. fighter aircraft		. F-16 aircraft
	ded into the F1 (150 to 250 km) and the to 1000 km) regions. The F2 region		. F-5 aircraft	RT «	∞ aircraft
	ly has the largest electron density and it		jet aircraft		
	throughout the night. The F region is the		. turbofan aircraft	F-17 ai	rcraft
	st commonly used for long range high		F-5 aircraft	UF	YF-17 aircraft
	cy propagation.		monoplanes . F-5 aircraft	GS	attack aircraft
	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 -	∞ aircraft		monoplanes
	Earth ionosphere				. F-17 aircraft supersonic aircraft
	upper ionosphere	F-8 aire	craft		. F-17 aircraft
	F region 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
			Ling-Temco-Vought aircraft . F-8 aircraft		. F-18 aircraft McDonnell Douglas aircraft
F stars			monoplanes		. F-18 aircraft
GS	celestial bodies . 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 «	∞ aircraft	F-20 ai	rcraft
	main sequence stars			GS	attack aircraft
	stellar spectra	F8U aii	rcraft		. fighter aircraft
			F-8 aircraft		F-20 aircraft
	ket engine				jet aircraft
GS	engines	F 0 air	au aft		. F-20 aircraft
	. rocket engines liquid propellant rocket engines	F-9 aire	craπ Cougar aircraft		Northrop aircraft . F-20 aircraft
	F-1 rocket engines	Ur	F9F aircraft		20 411 51411
RT	booster rocket engines		Panther aircraft	F-22 ai	rcraft
	Nova launch vehicles	GS	attack aircraft		ed August 1993)
	Saturn launch vehicles	<b></b>	. fighter aircraft	UF	advanced tactical fighter
			F-9 aircraft		ATF
F-2 airc			Grumman aircraft		YF-22 aircraft
UF	Hawker Hunter aircraft		. F-9 aircraft	GS	attack aircraft
_	Hunter F-2 aircraft		jet aircraft		. fighter aircraft
GS	attack aircraft		. F-9 aircraft		. F-22 aircraft
	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

RT ∞ aircraft RT ∞ aircraft RT ∞ 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 F-94 aircraft . fighter aircraft F-27 aircraft F-105 aircraft jet aircraft jet aircraft F-94 aircraft jet aircraft . turboprop aircraft Lockheed aircraft . F-105 aircraft ... F-27 aircraft F-94 aircraft monoplanes monoplanes monoplanes . F-94 aircraft F-105 aircraft F-27 aircraft Republic aircraft passenger aircraft single engine aircraft . F-105 aircraft F-27 aircraft . F-94 aircraft single engine aircraft transport aircraft RT ∞ aircraft . F-105 aircraft F-27 aircraft  $RT \, \infty \, aircraft$ RT ∞ aircraft F-100 aircraft Super Sabre aircraft F-106 aircraft UF F-28 helicopter Delta Dart aircraft attack aircraft light aircraft attack aircraft . fighter aircraft F-28 helicopter . F-100 aircraft passenger aircraft . fighter aircraft . F-106 aircraft F-28 helicopter jet aircraft F-100 aircraft General Dynamics aircraft V/STOL aircraft . F-106 aircraft . rotary wing aircraft monoplanes jet aircraft . F-106 aircraft . . helicopters F-100 aircraft ... rigid rotor helicopters North American aircraft F-100 aircraft .... F-28 helicopter monoplanes F-106 aircraft single engine aircraft F-28 transport aircraft F-100 aircraft single engine aircraft Fellowship aircraft supersonic aircraft . F-106 aircraft F-100 aircraft supersonic aircraft Fokker F 28 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 UF 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 LASV UF F-28 transport aircraft McDonnell Douglas 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 Delta Dagger aircraft F-84 aircraft UF supersonic aircraft . F-111 aircraft YF-102 aircraft jet aircraft attack aircraft . F-84 aircraft  $RT \, \infty \, aircraft$ . fighter aircraft monoplanes mission adaptive wings . F-102 aircraft F-84 aircraft General Dynamics aircraft variable sweep wings 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-86 aircraft . . F-117A aircraft F-102 aircraft Sabre aircraft jet aircraft supersonic aircraft F-117A aircraft GS attack aircraft F-102 aircraft . fighter aircraft RT ∞ 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 Starfighter aircraft fabrication . F-86 aircraft attack aircraft GS fabrication RT ∞ aircraft . fighter aircraft . nanofabrication . F-104 aircraft . space manufacturing RT assemblies F-89 aircraft jet aircraft F-104 aircraft assembling GS attack aircraft . 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 rapid prototyping resin film infusion single engine aircraft monoplanes . F-104 aircraft F-89 aircraft

supersonic aircraft

F-104 aircraft

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F-89 aircraft

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auroral spectroscopy optical equipment optical measuring instruments optical analysis corrosion corrosion corrosion optical measuring object of caroling optical measuring instruments optical analysis (mathematics) optical analysis (mathematics) optical analysis op	п					
optical equipment optical measuring instruments  face (anatomy)  GS anatomy statical analysis cefformation  . forehead of mouth optical analysis determined analysis  . mouth optical analysis sensitivity analysis caracking (fracturing)  . chin factorials  GS analysis (mathematics) destruction  destruction destruction  factorial  destruction  factorial  destruction  factorials  destruction  destruction  destruction  factorial  destruction  factorial  destruction  factorial  destruction  factorial  destruction  factorial  destruction  destruction  factorial  destruction  factorial  facto					~	
optical measuring instruments  face (anatomy)  GS anatomy  . chin face (anatomy)  . chin factorials  . mouth  ips (anatomy)  . nose (anatomy)  ped (anatomy)  face centered cubic lattices  UF FCC lattices  GS crystal lattices  . cubic lattices  . cubic lattices  BT body centered cubic lattices  Close packed lattices		,	GS			
face (anatomy) GS anatomy sensitivity analysis cracking (fracturing) GS anatomy statistical analysis cracking (fracturing) Corrosion  - Chin forehead GS analysis (mathematics) deterioration Corrosion Combinatorial analysis deterioration Combinatorial analysis deteriorat			DT			
face (anatomy) GS anatomy		optical measuring instruments	HI≪			•
GS anatomy statistical analysis cumulative damage deformation destruction analysis tractor analysis temperature inversions veral structural strain temperature inversions veral structural strain temperature inversions veral structural strain temperature inversions veral variables areal variables.  Facilities  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  RT algorithms are variable of actorized on analysis odeformation of destruction application, and documentation to identify the failure mode and determine the failure mechanism and its basic cause.  RT acoustic emission	face (ar	natomy)				
face (anatomy)	•					
chin forehead forehead forehead forehead mouth lips (anatomy) (actorials forehead mouth lips (anatomy)	0.0			statistical analysis		
Face centered cubic lattices Crystal lattices Crystal lattices Close packed lattices Clo		` ,,	factoria	ls.		
. mouth lips (anatomy) nose (anatomy) head (anatomy) head (anatomy) head (anatomy)  face centered cubic lattices UF FCC lattices GS crystal lattices cubic lattices face centered cubic lattices close packed lattices close packed lattices cluster variation method crystals  GS factorization  DEF Process or instance of factoring. DEF Process or instance of factoring. Cholesky factorization Short circuits factor analysis finite element method real variables  factor analysis finite element method real variables  factors  USE Variable  faculae  DEF Large patches of bright material form- ing a veined network in the vicinity of sunspots.  RT acoustic emission		forehead				
lips (anatomy) nose (anatomy) nose (anatomy)  RT eye (anatomy) head (anatomy)  face centered cubic lattices  UF FCC lattices GS crystal lattices cubic lattices			GS			
RT eye (anatomy)		lips (anatomy)				
RT eye (anatomy) head (anatomy)  factories  USE industrial plants  factories  USE factorization  Cubic lattices  USE factorization  Cubic lattices  Industrial plants  factorization  DEF Process or instance of factoring.  Cubic lattices  Close packed lattices  Cluster variation method  Crystals  Crystals  USE flat surfaces  Factors  USE flat surfaces  Factors  USE flat surfaces  Factors  USE variable  Factors  Factors  Factors  Factors  USE variable  Factors		nose (anatomy)	RT			
head (anatomy)  face centered cubic lattices  UF FCC lattices GS crystal lattices USE industrial plants  factorization  DEF Process or instance of factoring.  RT body centered cubic lattices close packed lattices cluster variation method crystals  Tacets USE flat surfaces  Factors  USE industrial plants  factorization  DEF Process or instance of factoring. Cholesky factorization  RT algue (materials) flashover fractures (materials) malfunctions Mills ratio . Cholesky factorization short circuits structural strain temperature inversions wear  factor analysis flaiture analysis  DEF Subsequent to failure, the logical, systematic examination of an item, its construction application, and documentation to identify th failure mode and determine the failure mechanism and its basic cause.  RT acoustic emission	RT					
face centered cubic lattices  UF FCC lattices GS crystal lattices Cubic lattices Coubic lattic		head (anatomy)		gamma ranottori		-
face centered cubic lattices       USE       industrial plants       fractures (materials)         GS       crystal lattices       factorization       Mills ratio         . cubic lattices       . face centered cubic lattices       GS       factorization       rupturing         . face centered cubic lattices       GS       factorization       shearing         . Cholesky factorization       short circuits         . Cholesky factorization       structural strain         . Chol			factories	3		
UF FCC lattices GS crystal lattices	face ce	ntered cubic lattices				
GS crystal lattices . cubic lattices . cubic lattices . cubic lattices . cubic lattices . Subsequent to factorization . Cholesky factorization . Short circuits . Structural strain factor analysis . Structural strain temperature inversions wear . Cholesky factorization . Cholesky factorization . Cholesky factorization . Short circuits . Structural strain temperature inversions wear . Cholesky factor analysis . Structural strain temperature inversions wear . Cholesky factor analysis . Structural strain temperature inversions wear . Cholesky factor analysis . Structural strain temperature inversions wear . Cholesky factor analysis . Structural strain temperature inversions wear . Cholesky factor analysis . Structural strain temperature inversions wear . Cholesky factor analysis . Structural strain temperature inversions wear . Cholesky factor analysis . DEF Subsequent to failure, the logical, systematic examination of an item, its construction application, and documentation to identify the facilities . Cholesky factorization . Structural strain temperature inversions wear . Cholesky factorization . Short circuits . Structural strain temperature inversions wear . Cholesky factorization . Short circuits . Structural strain temperature inversions wear . Cholesky factor analysis . DEF Subsequent to failure, the logical, systematic examination of an item, its construction application, and documentation to identify the failure mode and determine the failure mechanism and its basic cause. RT acoustic emission . Cholesky factorization . Ch	UF	FCC lattices				
RT body centered cubic lattices Close packed lattices cluster variation method crystals  Flat surfaces  Flat surfaces  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  RT airports  Flat surfaces  Flat surfaces  Flat surfaces  Flat surfaces  Flat surfaces  Flat surfaces  GS factorization shearing shearing short circuits	GS		factoriz	ation		Mills ratio
RT body centered cubic lattices close packed lattices algorithms structural strain cluster variation method crystals factor analysis tinite element method real variables  Facets  USE flat surfaces  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT airports  SR (LISTED BELOW)  RT airports  Factorization shearing short circuits structural strain temperature inversions wear  factors variables  Factors  USE variable  Short circuits structural strain temperature inversions wear  factors  DEF Subsequent to failure, the logical, systematic examination of an item, its construction failure mode and determine the failure mechanism and its basic cause.  DEF Large patches of bright material formnism and its basic cause.  RT acoustic emission			DEF	Process or instance of factoring.		rupturing
close packed lattices cluster variation method crystals  Facets  USE  flat surfaces  SN  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT  airports  Agriculatics  Agriculation method real variables  factors  USE  Variable  faculae  DEF  Large patches of bright material form- ing a veined network in the vicinity of sunspots.  SIN clusters  STR  Algorithms structural strain temperature inversions wear  facilitre analysis  DEF  Subsequent to failure, the logical, systematic examination of an item, its construction application, and documentation to identify th failure mode and determine the failure mechanism and its basic cause.  RT  Acoustic emission			GS			
cluster variation method crystals  facets  USE flat surfaces  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT airports  Cluster variation method finite element method wear  factors  USE variable  factors  Variable  faculae  DEF Large patches of bright material form- nism and its basic cause.  RT acoustic emission	RT			. Cholesky factorization		short circuits
crystals  finite element method finite eleme			RT	algorithms		structural strain
facets USE flat surfaces  facilities  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT airports  Facility  Faci						temperature inversions
facets USE flat surfaces  factors USE variable  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS ISTED BELOW)  RT airports  factors  USE variable  faculae  DEF Large patches of bright material forming a veined network in the vicinity of sunspots.  facilitre analysis  DEF Subsequent to failure, the logical, systematic examination of an item, its construction application, and documentation to identify the failure mode and determine the failure mechanism and its basic cause.  RT acoustic emission		crystals				wear
USE flat surfaces  facilities  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT airports  flat surfaces  factors  USE variable  Variable  USE variable  Variable  Table  Variable  Variable  Table  Variable  Table  Variable  Table  Variable  Table  Variable  Table  Table  Tematic examination of an item, its construction application, and documentation to identify the failure mode and determine the failure mechanism and its basic cause.  RT acoustic emission	facata			real variables		
facilities  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT airports  USE variable  Variable  USE variable  USE variable  Variable  tematic examination of an item, its construction application, and documentation to identify the failure mode and determine the failure mechanism and its basic cause.  RT acoustic emission		flat curfaces	_			
facilities  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT airports  Application, and documentation to identify th failure mode and determine the failure mechanism and its basic cause.  RT acoustic emission	USE	nat surfaces				Subsequent to failure, the logical, sys
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT airports  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  DEF Large patches of bright material forming and its basic cause.  RT acoustic emission	facilitio	e	USE	variable		
RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  DEF Large patches of bright material form- ing a veined network in the vicinity of sunspots.  RT acoustic emission						
LISTED BELOW)  DEF Large patches of bright material forminsm and its basic cause.  RT airports ing a veined network in the vicinity of sunspots.  RT acoustic emission	OIN					
	5-	LISTED BELOW)				
electric power plants I ney appear to be more permanent than sun- ∞ analyzing	RT		•			
		electric power plants	They ap	pear to be more permanent than sun-	~	∘ anaıyzıng

burn-in cowlings radioactivity burst tests fillets housings false alarms failure DEF In general, the unwanted detection of fatigue life landing gear fault detection nacelles input noise. In radar, an indication of a detected target even though one does not exist, due to fault tolerance ogives perforated shells noise or interference levels exceeding the set fiber pullout lessons learned protectors threshold of detection. life (durability) protuberances RT error signals Mills ratio . sheaths signal to noise ratios MTBF warning systems shells (structural forms) preventive maintenance spinners streamlining fan blades probability density functions DEF One or more revolving vanes attached reliability wing roots to a rotary hub and operated by a motor. risk assessment compressor blades statistical analysis Faith 7 ducted fans trend analysis GS manned spacecraft ∞ fans . Mercury spacecraft propeller blades failure modes . Faith 7 rotary wings GS modes reentry vehicles turbine blades failure modes recoverable spacecraft turbomachine blades buckling . . Mercury spacecraft ventilation fans cracks . Faith 7 elastic buckling soft landing spacecraft fan in wing aircraft
GS fan in wing aircraft
. XV-5 aircraft fault detection . Mercury spacecraft fiber pushout . Faith 7 kink bands space capsules RT ∞ aircraft kinkina . Mercury spacecraft . . Faith 7 lift fans mode research aircraft mode (statistics) Mercury MA-2 flight short takeoff aircraft MTBF Mercury MA-9 flight tilt wing aircraft shearing V/STOL aircraft vertical takeoff aircraft Falcon missile faint object camera One of the five components of the first GS missiles fanlift devices scientific payload of the Hubble Space Tele-. air to air missiles USE lift fans scope. The faint object camera will be used to . . Falcon missile . antiaircraft missiles observe extremely faint astronomical objects ∞ fans with wavelengths between 120 and 700 nm. Falcon missile (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) actuator disks GS optical equipment M-46 engine . cameras solid propellant rocket engines . faint object camera air conditioning equipment photographic equipment Falkner-Skan equation air ducts . cameras analysis (mathematics) antenna radiation patterns . faint object camera . real variables blowers astronomical photography . . differential equations compressor rotors Hubble Space Telescope Falkner-Skan equation compressors ducted fans infrared photography Blasius equation optical measuring instruments boundary layer separation spaceborne astronomy fan blades ∞ equations propeller fans spaceborne telescopes laminar flow ultraviolet photography turbofans Prandtl-Meyer expansion ventilation fans wedge flow faint objects wind tunnel drives celestial bodies faint objects fans (landforms) falling Gently sloping, fan-shaped masses of RT galaxies atmospheric entry detritus forming sections of very low shaped descent trajectories particle motion cones commonly at places where there is a ∞ precipitation notable decrease in gradient; specifically, allufainting syncope vial fans. Also fan-shaped masses of congealed USE sinking vertical motion lava that formed on steep slopes by the con-Fairchild military aircraft tinual changing direction of flow. Used for baja-USE Fairchild-Hiller aircraft falling spheres UF bajadas symmetrical bodies Fairchild-Hiller aircraft GS landforms bodies of revolution Fairchild military aircraft Fairchild-Hiller aircraft fans (landforms) . . spheres alluvium falling spheres . C-119 aircraft canyons balls . C-123 aircraft clays drop towers OH-5 helicopter deltas free fall OH-23 helicopter gravels alobules . XC-142 aircraft mud raindrops RT ∞ aircraft sands spheroids sediments Fairey aircraft Fairey aircraft fallout GS . FD 2 aircraft washout (radioactivity) DEF (1- antennas) Those regions of the RT ∞ aircraft air pollution field of an antenna where the angular field distribution is essentially independent of the fission products

fission weapons

radiation effects

∞ radioactive debris

radiation hazards

∞ radiation

nuclear explosions

nuclear meteorology

nuclear explosion effect

post-blast nuclear radiation

radioactive contaminants

Fairey Delta 2 aircraft

fairings

GS

USÉ FD 2 aircraft

symmetrical bodies

aircraft structures

. fairings

canopies

. streamlined bodies

aerodynamic configurations

distance from a specified point in the antenna

region. (2-fiber optics) The regions, far from source, where the diffraction pattern is substan-

tially the same as that at infinity. (mobile com-

munication) The regions of the field of an an-

tenna where the angular fild distance is essen-

tially independent of the distance from the antenna. Used for Fraunhoffer region.

Fraunhofer region

GS electromagnetic fields

UF

	. far fields		sorghum		. fast neutrons
RT	antenna radiation patterns		wheat		particles
	electromagnetic radiation		. hay		elementary particles
	field theory (physics)		. leguminous plants		fermions
	Fresnel region		soybeans		neutrons
	laser arrays		. potatoes		fast neutrons
	near fields		. spinach		. neutral particles
	noise propagation		. sugar beets		neutrons
	radiant flux density		. sugar cane . sunflowers	RT	fast neutrons baryons
far infra	ared radiation		. tomatoes	111	nucleons
SN	(30 MICRONS TO ABOUT 1000 MICRONS)	RT	agriculture		thermal neutrons
GS	electromagnetic radiation		AgRISTARS project		
	. infrared radiation		botany	fast nu	clear reactors
	far infrared radiation		crop calendars	GS	nuclear reactors
RT	long wave radiation		crop dusting		. fast nuclear reactors
	near infrared radiation		crop growth		Experimental Breeder Reactor 1
00	oradiation radio waves		crop inventories		Experimental Breeder Reactor 2
	short wave radiation		crop vigor		fast oxide reactors
	submillimeter waves		∞ crops curing		fast test reactors
	terrestrial radiation		Earth resources		gas cooled fast reactors liquid metal fast breeder reactors
			farmlands	RT	Enrico Fermi atomic power plant
far ultra	aviolet radiation		frost damage		nuclear power reactors
SN	(200 TO 2000 ANGSTROMS)		grasses		nacioal power reactors
UF	vacuum ultraviolet radiation		grasslands	fast oxi	ide reactors
GS	electromagnetic radiation . ultraviolet radiation		irrigation		nuclear reactors
	. far ultraviolet radiation		Large Area Crop Inventory		. fast nuclear reactors
	Lyman alpha radiation		Experiment		fast oxide reactors
	Lyman beta radiation		locusts	RT	nuclear power reactors
RT	bremsstrahlung		orchards		
• • • •	Magellan ultraviolet astronomy		planting	fast tes	t reactors
	satellite		plants (botany) plowing	GS	nuclear reactors
	near ultraviolet radiation		seeds		. fast nuclear reactors
~	o radiation		vineyards	DT	. fast test reactors
	ultraviolet telescopes		viiloyarao	RI∘	∞ reactors
	x rays	farmlar	nds	44	
F== 111/	One-tweeter Frankrick	UF	croplands	fastene GS	rs fasteners
	Spectroscopic Explorer		plowed fields	GS	. anchors (fasteners)
	High-orbit, ultraviolet space observa- ering the wavelength range of 90. 5-119.	GS	land		. bolts
	the primary objective of FUSE is to use	DT	. farmlands		rock bolts
	colution spectroscopy at far ultraviolet	RT	agriculture		tiebolts
	igths to study the origin and evolution of		agrophysical units crop growth		. locks (fasteners)
	est elements (hydrogen and deuterium)		crop identification		nuts (fasteners)
	shortly after the Big Bang, and the		crop inventories		. pins
forces a	and processes involved in the evolution		crop vigor		. rivets
	ies, stars, and planetary systems.	c	∞ crops		. screws
UF	Explorer 77 satellite		Earth resources		. washers (spacers)
00	FUSE (satellite)		farm crops	DT	. zippers adhesives
GS	artificial satellites . scientific satellites		grasses		obands
	. Explorer satellites		grasslands		∘ belts
	Far UV Spectroscopic Explorer		hay		brackets
	I di O i Opconiocoopio Expioroi		irrigation		cables (ropes)
Faraday	y dark space		land use plains		chains
RT	gas discharge tubes		planting		clamps
	glow discharges		plowing		clips
			regional planning		closures
Faraday			rural areas		connectors
	Faraday rotation		rural land use		couplings
GS	electromagnetic properties		sod		fittings holders
DT	. Faraday effect		sugar beets		hooks
RT	circulators (phase shift circuits)  effects		sugar cane		inserts
	Hall generators	foot Eo	urier transformations		interference fit
	Kerr magnetooptical effect	UF	FFT		joints (junctions)
	magneto-optics	GS	analysis (mathematics)		latches
	optical measurement	ao	. functional analysis		linkages
	optical properties		integral transformations		locking
	polarization (waves)		Fourier transformation		lugs
	polarized electromagnetic radiation		fast Fourier transformations		mooring
	rotation		functions (mathematics)		ribbons
			. Fourier transformation		sleeves
	rotation		fast Fourier transformations		spacers • spikes
USE	Faraday effect		transformations (mathematics)	· ·	splicing
farm cr	ons		. integral transformations Fourier transformation		splines
GS	farm crops		fast Fourier transformations		straps
	. alfalfa	RT	vortex in cell technique		structural members
	. coffee		Walsh function		studs (structural members)
	. cotton			۰	∘ tapes
	. fruits	fast ne			unions (connectors)
	. grains (food)		Neutrons of energy exceeding some		wire
	barley		ld that must be specified (typically 0. 1 or		
	corn		often associated with those neutrons pre-	fasting	
	millet		tely responsible for displacement dam-	RT	aerospace medicine
	. oats	age of i	materials in neutron radiation fields. nuclear radiation		diets food intake
	1100	us	πασισαι ταυιαιιΟΠ		IOOU IIIIANG

	hypoxia	vibration	acetic acid
		fatigue diagrama	ethylenediaminetetraacetic acids
fat emb	olisms diseases	fatigue diagrams USE S-N diagrams	iodoacetic acid acetylsalicylic acid
us	. fat embolisms	55 <u></u>	benzilic acid
	embolisms	fatigue life	benzoic acid
	. fat embolisms	DEF The number of cycles of stress or	lipoic acid
RT	aeroembolism	strain of a specified character that a given	oleic acid
	blood vessels	specimen sustains before failure of a specified nature occurs.	palmitic acid propionic acid
	cardiovascular system heart diseases	GS life (durability)	sebacic acid
	fleatt diseases	. fatigue life	valeric acid
fatiana	(biology)	mechanical properties	RT ∞ aliphatic compounds
_	State of the human organism after	. fatigue life	castor oil
	e to any time of physical or psychologi-	RT accelerated life tests blowouts	∞ nutrients
cal stres	ss (e.g., pilot fatigue).	Coffin-Manson law	fault detection
GS	fatigue (biology)	combined stress	(added September 1993)
	. auditory fatigue	failure analysis	GS detection
	. flight fatigue . muscular fatigue	interference fit	fault detection
RT	asthenopia	Palmgren-Miner rule	RT electronic equipment tests
	⇒ biology	retirement for cause	engine monitoring instruments error detection codes
	damage	service life short cracks	failure analysis
	effort	S-N diagrams	failure modes
٥	o endurance	stress cycles	fault tolerance
	exhaustion human factors engineering	•	maintenance
	hyperkinesia	fatigue testing machines	reliability engineering
	massaging	RT acoustic emission	system failures
۰	performance	∞ machinery	systems health monitoring
	physical exercise	∞ test equipment	fault mechanics
	sleep deprivation	fatigue tests	USE fracture mechanics
	stress (biology)	RT bending	fault tolerance
	stress (physiology) stress (psychology)	Coffin-Manson law	DEF The capability of systems to function
	workloads (psychophysiology)	creep tests	despite one or more critical failures, by use of
	work-rest cycle	destructive tests	redundant circuits or functions and/or reconfig-
		ferrography impact testing machines	urable elements.
fatigue	(materials)	impact testing machines	RT error analysis
DEF	A weakening or deterioration of metal	load tests	error detection codes
	material occurring under load, espe-	∞ materials tests	fail-safe systems failure analysis
	nder repeated cyclic, or continued load-	notch strength	fault detection
. •	ed for strain fatigue and structural fa-	notch tests	reliability engineering
tigue. UF	strain fatigue	resonance testing	
Oi	structural fatigue	S-N diagrams specimen geometry	fault trees
GS	fatigue (materials)	static tests	DEF Acyclic directed graphs used in the analysis or prediction of faults and defects.
	. acoustic fatigue	stress concentration	GS trees (mathematics)
	. bending fatigue	stress cycles	. fault trees
	. metal fatigue	stress ratio	RT graphs (charts)
	. thermal fatigue	tensile tests	topology
RT	. volumetric strain Bauschinger effect	testing time ∞ tests	∞ faults
	crack closure	thermal cycling tests	SN (USE OF A MORE SPECIFIC TERM IS
	crack geometry	Weibull density functions	RECOMMENDEDCONSULT THE TERMS
	crack propagation	weld tests	LISTED BELOW) RT electrical faults
	cracking (fracturing)		geological faults
	cracks	fats	landforms
	creep properties crystal dislocations	GS organic compounds	massifs
	cycles	. lipids f <b>ats</b>	seamounts
	damage	RT adipose tissues	test pattern generators
	destruction	∞ food	fauna
	ductility	greases	USE animals
۰	endurance	myelin	<i>t</i>
	failure	∞ nutrients	fax USE facsimile communication
	fractography fretting	oils	USE Tacsimile communication
	fretting corrosion	palmitic acid synthetic food	fayalite
	hardness	Synthetic lood	GS iron compounds
۰	o materials	fatty acids	. fayalite
	mechanical properties	GS acids	minerals . f <b>ayalite</b>
	notch sensitivity	. carboxylic acids	silicon compounds
	plastic properties	fatty acids	. silicates
	residual strength shear properties	acetic acid ethylenediaminetetraacetic acids	fayalite
	shot peening	iodoacetic acid	FBFM (modulation)
	S-N diagrams	acetylsalicylic acid	USE feedback frequency modulation
	stress concentration	benzilic acid	' '
	stress cycles	benzoic acid	FBL control
	stress ratio	lipoic acid	USE fly by light control
	stress relaxation stress relieving	oleic acid palmitic acid	FBM (missiles)
	stresses	propionic acid	USE fleet ballistic missiles
	structural failure	sebacic acid	FCC lattices
	surface defects	valeric acid	USE face centered cubic lattices
	system failures	organic compounds	
	temperature inversions	. carboxylic acids	FD 2 aircraft
	thermal stresses	fatty acids	UF Fairey Delta 2 aircraft

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

circuits

feedback circuits

feedforward control

GS

RT

control theory

feedback circuits

model reference adaptive control

remote sensing

remote sensors

scene analysis

optimal control tracking stations ∞ statistics fences (barriers) fermions feeding (supplying) RT ∞ barriers GS particles feed systems boundaries . elementary particles feeders . . fermions fences injection gates (openings) . . . baryons input ... hyperons ∞ loading Fermat principle . . . . xi hyperons materials handling DEF The principle which states that the path .... omega-mesons along which electromagnetic radiation travels . . . . rho-mesons feelings between any two points will be that path for . sigma-mesons USE sensory feedback which the elapsed time for the travel is a mini-. . . eta-mesons ... leptons feet (anatomy) electromagnetic wave transmission . . . . antineutrinos The lower, pedal extremities of the light transmission . electrons legs. multipath transmission . . . . . conduction electrons anatomy optical thickness free electrons . limbs (anatomy) . . high energy electrons . . . relativistic electron beams velocity .. leg (anatomy) . . feet (anatomy) fermentation hot electrons appendages chemical reactions N electrons . leg (anatomy) fermentation . . negatrons . . feet (anatomy) metabolism photoelectrons . enzyme activity . . . . pi-electrons feldspars fermentation . . . . polarons A group of abundant rock-forming minbioconversion .... solar electrons erals of the family of anhydrous silicates. butyric acid . . . . muons GS aluminum compounds . . . . neutrinos . aluminum silicates Fermi Gamma-ray Space Telescope . . . . . solar neutrinos . . feldspars (added August 2008) . . . . positrons . . . plagioclase Gamma-ray astronomy observatory in . . . meson resonance low-Earth orbit, comprised of the Large Area minerals .... X mesons Telescope and the GLAST Burst Monitor, used . feldspars ... neutrons to explore the extreme Universe, dark matter . plagioclase .... cold neutrons silicon compounds composition, black hole material acceleration, . . . . fast neutrons . silicates and the high-energy behavior of gamma-ray ... photoneutrons . . aluminum silicates bursts. The observatory will also be used to .... solar neutrons investigate solar flares, pulsars, and cosmic ray ... feldspars . . . . thermal neutrons ... plagioclase origins . . . protons andesite UF Gamma-ray Large Area Space . . . . recoil protons Telescope anorthosite . . solar protons felsite GLAST Fermi-Dirac statistics GS artificial satellites igneous rocks heavy fermion systems . scientific satellites particle decay . . astronomical satellites Pauli exclusion principle Fellowship aircraft ... Fermi Gamma-ray Space USE F-28 transport aircraft quantum statistics Telescope supersymmetry observatories . astronomical observatories A light colored, fine grained igneous . . astronomical satellites GS chemical elements rock composed chiefly of quartz or feldspar. ... Fermi Gamma-ray Space . actinide series rocks Telescope . . transuranium elements . igneous rocks telescopes . . . fermium . felsite . gamma ray telescopes . nuclides RT feldspars Fermi Gamma-ray Space . . isotopes minerals Telescope . . . radioactive isotopes quartz . spaceborne telescopes .... transuranium elements Fermi Gamma-ray Space . fermium felts Telescope metals GS fabrics cosmic rays . actinide series felts gamma ray astronomy . . transuranium elements RT wool spaceborne astronomy . . . fermium Fermi liquids females Ferranti Mercury computer UF women liquids GS data processing equipment RT adults . cryogenic fluids . computers . Fermi liquids . . digital computers children ... Ferranti Mercury computer gynecology cryogenics electronic structure human beings males ferrates Fermi surfaces menstruation GS iron compounds RT Brillouin zones ferrates sex cyclotron resonance sex factor . . barium ferrates energy levels zygotes magnetoresistivity ferric ions ∞ surfaces GS ions femur transition probabilities . metal ions GS anatomy . ferric ions . musculoskeletal system Fermi-Dirac statistics RT iron . . bones The statistics of an assembly of iden-. . femur tical half-integer spin particles; such particles ferrimagnetic materials RT knee (anatomy) have wave functions antisymmetrical with remagnetic materials leg (anatomy) spect to particle interchange and satisfy the ferrimagnetic materials Pauli exclusion principle. ferromagnetic materials ∞ fences bosons ∞ materials (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN degenerate matter

fermions

quantum mechanics

quantum statistics

RT

airfoil fences fences (barriers) ferrimagnetism

magnetic properties

. ferrimagnetism

## ferrimagnets

RT ferrimagnets antiferroelectricity MARS (Manned Reusable magnons Curie temperature Spacecraft) dielectric properties reentry vehicles ferrimagnets ferroelasticity rendezvous spacecraft GS magnets ferroelectric materials reusable spacecraft ferrimagnets soft landing spacecraft microwave switching RT ferrimagnetism space stations permanent magnets ferrofluids GS liquids fertility ferrites ferrofluids breeding (reproduction) Solid solutions of carbon in alpha-iron. magnetic materials DEF fertilization GS iron compounds . ferromagnetic materials reproduction (biology) ferrites . ferrofluids reproductive systems austenite dispersions zygotes ferritic stainless steels ∞ fluids gadolinium-gallium garnet fertilization magnetorheological fluids gyrators microparticles RT birth iron alloys fertility suspending (mixing) in vitro methods and tests magnetic cores ∞ suspensions microstructure recombination reactions working fluids ∞ reproduction pearlite spinel spermatozoa ferrography DEF A technique for the isolation and analysteels zygotes sis of wear particles in a lubricant. yttrium-aluminum garnet yttrium-iron garnet RT fatique tests fertilizers metallography ammonia ferritic stainless steels ammonium nitrates wear tests GS alloys ashes . iron alloys ferromagnetic films cultivation . . steels magnetic materials planting . . . stainless steels . ferromagnetic materials ureas . . . ferritic stainless steels . ferromagnetic films vegetation growth RT chromium steels thin films ferrites . ferromagnetic films FET (transistors) USE field effect transistors heat treatment ferromagnetic materials magnetic properties mechanical properties GS magnetic materials fetuses UF foetuses . ferromagnetic materials ferroalloys RT birth . . ferrofluids USE iron alloys . . ferromagnetic films eggs . . magnetite embryology ferrocenes . Permalloys (trademark) embryos GS iron compounds ferrimagnetic materials reproduction (biology) ferrocenes ferroelectric materials reproductive systems . . alkylferrocene magnetorheological fluids organometallic compounds magnets fever . ferrocenes body temperature ∞ materials . . alkylferrocene hyperthermia permanent magnets skin temperature (biology) smart materials ferroelastic materials vokes (added June 1998) Feynman diagrams ferroelastic materials ferromagnetic resonance GS diagrams . Feynman diagrams . shape memory alloys resonance GS electromagnetic interactions Minkowski space . nitinol alloys . magnetic resonance ceramics . ferromagnetic resonance ferroelasticity particle interactions magnetic fields ferroelectric materials quantum electrodynamics paramagnetic resonance ∞ materials FFAR rocket vehicle smart materials ferromagnetism magnetic properties . ferromagnetism USE Folding Fin aircraft rocket vehicle GS ferroelasticity (added June 1998) antiferromagnetism Ffowcs Williams-Hawkings equation mechanical properties Curie temperature (added December 2006) Curie-Weiss law A governing equation of noise generaelastic properties tion by sources on, and the fluid motion in the ferroelasticity diamagnetism crystal structure Ising model vicinity of a moving surface based on the acousdomain wall Langevin formula tic analogy. It is an inhomogeneous linear wave ferroelastic materials magnetic cores equation. The inhomogeneous terms of this ferroelectricity magnetic dispersion equation are known as thickness, loading, and phase transformations magnets quadrupole (nonlinear) source terms. shape memory alloys magnons FW-H equation smart materials algebra ferrous metals . linear equations ferroelectric materials ... Ffowcs Williams-Hawkings GS metals (added March 1997) ferrous metals equation RT barium titanates alloys analysis (mathematics) ceramics chemical elements . real variables ferroelastic materials . . differential equations . . . partial differential equations ferroelectricity iron isotopes ferromagnetic materials Ffowcs Williams-Hawkings ∞ metallurgy lead zirconate titanates equation liquid crystals ferry spacecraft . . linear equations Ffowcs Williams-Hawkings ∞ materials space buses ∞ polymers GS maneuverable spacecraft equation smart materials ferry spacecraft wave equations thin films manned spacecraft Ffowcs Williams-Hawkings ferry spacecraft Astro vehicle equation ferroelectricity aeroacoustics

cargo spacecraft

Columbus space station

aerodvnamic noise

aircraft noise

GS

electrical properties

. ferroelectricity

	blade slap noise		auparhyhrid matariala		destructive tests
	computational aeroacoustics		superhybrid materials three dimensional composites		failure modes
	flow noise		tiffee differisional composites		fiber composites
	noise prediction	fiber las	sers		fiber pullout
	noise prediction (aircraft)		ed October 1997)		fiber-matrix interfaces
	propeller noise		electronic equipment		fibers
	rotor aerodynamics		. solid state devices		interfacial energy
	surface noise interactions		solid state lasers	0	materials tests
	wave propagation		fiber lasers	· ·	metal matrix composites
	wave propagation		stimulated emission devices		reinforcing fibers
FFT			. lasers		remerening macre
USE	fast Fourier transformations		solid state lasers	fiber rel	lease
			fiber lasers		fiber pullout
FGM (n	naterials)		waveguide lasers		•
USE	functionally gradient materials		fiber lasers	fiber st	rength
		RT	fiber optics	GS	mechanical properties
	) helicopter		laser materials		fiber strength
USE	OH-5 helicopter		laser pumping	RT	aramid fibers
			light amplifiers		bending
Fiat air			optical fibers		boron fibers
GS	Fiat aircraft		optical pumping		ceramic fibers
	. G-91 aircraft		semiconductor lasers		compressive strength
	. G-95/4 aircraft				fiber volume fraction
	. G-222 aircraft	fiber op			Hookes law
HI∘	aircraft		The technique of transmitting light		Poisson ratio
F:-+ O (	N#		long thin, flexible fibers of glass, plastic,		shear strength
	1 aircraft		transparent materials.	۰	strength
USE	G-91 aircraft	RT	Cassegrain optics		tensile strength
First C (	95/4 aircraft		crystal optics		
	G-95/4 aircraft		electron tubes		olume fraction
USE	G-95/4 aircraft		evanescent waves	•	ed April 1992)
First C (	222 aircraft		fiber lasers	GS	composition (property)
	G-222 aircraft		fly by light control		. concentration (composition)
USL	G-222 dilCidit		geometrical optics		fiber volume fraction
fiber bri	daina		gradient index optics		ratios
	crack bridging		light emitting diodes	рт	fiber volume fraction
OOL	Clack bridging		light transmission	RT	composite materials
fiber co	mposites		numerical aperture		fiber composites
	Structural materials consisting of com-		optical fibers		fiber orientation
	s of metals or alloys or plastics rein-	۰	optics		fiber strength
	with one or more types of fibers.		optoelectronic devices		reinforcing fibers
GS	composite materials		photonics	fiberboa	ard
40	. fiber composites		physical optics plastic fibers	USE	boards (paper)
	aramid fiber composites		Sagnac effect	OOL	boards (paper)
	braided composites		scintillating fibers	fibergla	ss
	carbon fiber reinforced plastics		smart structures	USE	glass fibers
	carbon-phenolic composites		vidicons	002	g
	glass fiber reinforced plastics		Vidicolis	fiber-m	atrix interfaces
	woven composites	fiber or	ientation		ed July 1994)
RT	aluminum boron composites	RT	aramid fibers		interfaces
	aluminum graphite composites		boron fibers		. fiber-matrix interfaces
	aramid fibers		ceramic fibers	RT	composite materials
	boron fibers		composite materials		fiber composites
	boron reinforced materials		dynamic response		fiber pushout
	boron-epoxy composites		epoxy matrix composites		interfacial energy
	Borsic (tradename)		fiber volume fraction		matrix materials
	carbon fibers		glass fiber reinforced plastics		reinforcing fibers
	carbon-carbon composites		impact loads		
	carbon-silicon carbide composites		lay-up	fibers	
	ceramic fibers		mechanical properties	UF	fibrous materials
	chemical vapor infiltration	۰	orientation		Refrasil (trademark)
	composite wrapping		reinforcing fibers	GS	fibers
	crack bridging		stacking sequence (composite		. cotton fibers
	debonding (materials)		materials)		. hair
	fiber pullout				. linen
	fiber pushout	fiber pu			. metal fibers
	fiber volume fraction	UF	fiber release		. microfibers
	fiber-matrix interfaces	GS	releasing		. optical fibers
	filament winding		. fiber pullout		scintillating fibers
	functionally gradient materials	RT	adhesive bonding		. plastic fibers
	graphite		carbon fibers		. reinforcing fibers
	graphite-epoxy composites		ceramic matrix composites		aramid fibers
	hybrid composites kink bands		composite materials		Kevlar (trademark) boron fibers
			failure analysis		carbon fibers
	kinking laminates		fiber composites		carbon tibers . silk
	matrix materials		fiber pushout fibers		. synthetic fibers
	metal fibers		interfacial energy		aramid fibers
	metal matrix composites	_	materials tests		Kevlar (trademark)
	micarta	•	metal matrix composites		ceramic fibers
	polymer matrix composites		reinforcing fibers		Dacron (trademark)
	pultrusion		Tournoroung inports		. Fortisan (trademark)
	reinforced plastics	fiber pu	shout		glass fibers
	reinforcing fibers		ed September 1999)		Nylon (trademark)
	reinforcing materials		releasing		rayon
	resin transfer molding	30	. fiber pushout		Vycor
	resiii tialisiei liiolulliu				,
		RT			. wool
	sheet molding compounds	RT	ceramic matrix composites	RT	. wool boron reinforced materials
		RT		RT	

## fibers (mathematics)

composite materials RT tissues (biology) scanning electron microscopy cordage secondary emission cotton fibrous materials transmission electron microscopy fabrics USE fibers Zener effect fiber pullout Ficks equation fiber pushout field intensity meters (EMPLOY THIS TERM WHEN TYPE OF FIELD INVOLVED IS NOT SPECIFIED--OTHERWISE USE A MORE SPECIFIC TERM) RT diffusion diffusion coefficient glass fiber reinforced plastics metal matrix composites ∞ equations netting (materials/structures) reaction-diffusion equations measuring instruments Tafel law . field intensity meters papers polymeric films actinometers reinforcing materials fidelity flux density USE accuracy slivers magnetometers strands noise meters fiduciaries textiles wet spinning RT economics field mode theory finance RT cavity resonators whiskers (crystals) management dielectrics varns electromagnetic fields field aligned currents laser modes fibers (mathematics) (added September 1988) optical resonators canonical forms Electric currents aligned along magpropagation modes dimensional analysis netic fields. ∞ theories function space GS electric current group theory field aligned currents field of view homotopy theory . Birkeland currents DEF The area or solid angle that can be manifolds (mathematics) RT aeronomy viewed through or scanned by an optical instruatmospheric electricity topology Earth ionosphere GS viewing Earth magnetosphere field of view Fibonacci numbers geoelectricity bearing (direction) RT number theory geomagnetic tail conical scanning ∞ numbers geomagnetism elevation angle set theory geophysics ∞ fields ionospheric currents look angles (tracking) fibrillation lines of force visual fields magnetic field reconnection GS heart function Pedersen currents field sails fibrillation plasma currents USE magnetic sails RT heart diseases telluric currents muscles field strength upper atmosphere seismocardiography For any physical field, the flux density, DFF intensity, or gradient of the field at the point in field army ballistic missiles fibrin GS missiles question. biopolymers . ballistic missiles GS field strength . proteins . field army ballistic missiles electric field strength fibrin intermediate range ballistic missiles . magnetic flux body fluids RT acoustic properties short range ballistic missiles . blood directivity . . fibrin electric fields field coils organic compounds electrical properties GS electric coils . proteins electromagnetic fields . magnetic coils . fibrin . field coils flux density blood coagulation electromagnets gravitational fields isotropy coagulation helical inducers magnetic diffusion fibrinogen magnet coils magnetic fields thrombin magnetic properties field effect transistors ∞ orientation cascode MOSFET FET (transistors) fibrinogen permittivity GS biopolymers **IGFF**T ∞ strength . proteins **MESFETs** . . globulins field tests **MISFETs** . fibrinogen (added November 1998) MOSFET body fluids (EXCLUDES TESTS OF ELECTRIC, MAGNETIC, OR ELECTROMAGNETIC unipolar transistors . blood electronic equipment FIELDS)
Tests carried out in the actual setting in . fibrinogen . solid state devices organic compounds . . semiconductor devices which the subject device is intended to operate. . proteins . . . transistors RT environmental tests . . globulins .... field effect transistors performance tests fibrinogen . . . . . charge flow devices ∞ tests RT fibrin ....JFE1 hemostatics .... MODFETS field theory (algebra) homeostasis RT cascode devices field theory (algebra) thrombin ∞ effects . cubic equations high electron mobility transistors quadratic equations indium aluminum arsenides RT ∞ fields fibroblasts ion implantation Green's functions GS cells (biology) SOI (semiconductors) homomorphisms fibroblasts nonlinear equations cytoplasm field emission ∞ theories osteoblasts GS emission tendons . particle emission field theory (physics) tissues (biology) . . electron emission ambit ... field emission force fields electric fields Wightman theory fibrosis

electron microscopes

electron microscopy

magnetic fields

field theory (physics)
. crystal field theory

. gauge theory

GS

diseases

. fibrosis

. . cvstic fibrosis

	quantum chromodynamics	F-8 aircraft	cordage
	unified field theory	F-9 aircraft	fibers
	electroweak model	F-14 aircraft	ionizers
	standard model (particle physics)	F-15 aircraft	reinforcing materials
	. grand unified theory	F-16 aircraft	resistors
RT	antenna radiation patterns	F-17 aircraft	strands
	attraction	F-18 aircraft	vortex filaments
	boson fields	F-20 aircraft	wet spinning
	closure law	F-22 aircraft	whiskers (crystals)
	crossed fields	F-84 aircraft	wire
	Dirac equation	F-86 aircraft	
	distribution (property)	F-89 aircraft	filaments (solar physics)
0	o dynamics	F-94 aircraft	USE solar prominences
	electromagnetic fields	F-100 aircraft	·
	far fields	. F-101 aircraft	file maintenance (computers)
~	• fields	F-102 aircraft	GS maintenance
_	flow distribution	F-104 aircraft	. file maintenance (computers)
	flux (rate)	F-105 aircraft	RT checkout
	flux density	F-106 aircraft	computer programming
	function space	F-117A aircraft	computers
		FV-12A aircraft	program verification (computers)
	geomagnetism		programmers
	gravitational fields	G-91 aircraft	∞ programming
	Green's functions	G-95/4 aircraft	Programming
	light-cone expansion	GA-5 aircraft	∞ files
	magnetic field inversions	Harrier aircraft	SN (USE OF A MORE SPECIFIC TERM IS
	magnetic fields	Jaguar aircraft	RECOMMENDEDCONSULT THE TERMS
	magnetostatic fields	JAS-39 aircraft	LISTED BELOW)
	many body problem	jet provost aircraft	RT document storage
	multipolar fields	MiG aircraft	files (tools)
	nuclear physics	Mirage aircraft	
	null zones	Mirage 3 aircraft	files (tools)
~	∘ physics	P-51 aircraft	GS tools
	Pomeranchuk theorem	P-1127 aircraft	. files (tools)
	potential fields	P-1154 aircraft	RT abrasion
	pressure distribution	Saab 37 aircraft	∞ files
	quantum electrodynamics	Scimitar aircraft	scrapers
	quantum theory	Vampire MK 35 aircraft	
	radiation distribution	YF-12 aircraft	fillers
	relativity	RT ∞ aircraft	RT additives
	self consistent fields	highly maneuverable aircraft	∞ cells
	sound fields	∞ interceptors	dopes
	string theory	jet aircraft	opacifiers
	strong interactions (field theory)	∞ military aircraft	paints
	supergravity	∞ military aviation	pigments
	supersymmetry	MRCA aircraft	primers (coatings)
	temperature distribution	single engine aircraft	reinforcement (structures)
	tensors	STOVL aircraft	resins
			sealers
0	• theories	supersonic aircraft	
	traveling charge	training aircraft	sizing materials
	weak interactions (field theory)	V/STOL aircraft	varnishes
	Yang-Mills fields	X-31 aircraft	£;II-4-
	Yang-Mills theory		fillets
	zero point energy	figure of merit	RT fairings
		RT acceptability	joints (junctions)
	ogrammable gate arrays	∞ analyzing	seams (joints)
	ed April 2000)	criteria	welding
GS	circuits	efficiency	£:11:
	. gates (circuits)	evaluation	filling
	field-programmable gate arrays	modulation transfer function	GS filling
	. integrated circuits	optical transfer function	. refilling
	field-programmable gate arrays	∞ performance	RT accumulations
	reconfigurable hardware	Q factors	∞ charging
	. programmable logic devices	quality	extensions
	field-programmable gate arrays	selection	injection
RT	evolvable hardware	value	input
			∞ loading
∞ fields		filament winding	replenishment
SN	(USE OF A MORE SPECIFIC TERM IS	UF filament wound construction	supplying
0.1			
	RECOMMENDEDCONSULT THE TERMS	GS winding	
	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)	GS winding	film boiling
RT	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) boson fields	. filament winding	film boiling GS phase transformations
RT	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) boson fields electric fields	. fi <b>lament winding</b> RT ceramic fibers	GS phase transformations
RT	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) boson fields electric fields field of view	. filament winding RT ceramic fibers composite wrapping	GS phase transformations . vaporizing
RT	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) boson fields electric fields field of view field theory (algebra)	. filament winding RT ceramic fibers composite wrapping fiber composites	GS phase transformations . vaporizing boiling
RT	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) boson fields electric fields field of view	filament winding RT ceramic fibers composite wrapping fiber composites isotensoid structures	GS phase transformations . vaporizing boiling film boiling
RT	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) boson fields electric fields field of view field theory (algebra)	. filament winding RT ceramic fibers composite wrapping fiber composites isotensoid structures laminates	GS phase transformations . vaporizing boiling film boiling RT heat transfer
RT	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) boson fields electric fields field of view field theory (algebra) field theory (physics)	. filament winding RT ceramic fibers composite wrapping fiber composites isotensoid structures laminates metal fibers	GS phase transformations . vaporizing . boiling film boiling RT heat transfer Leidenfrost phenomenon
RT	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) boson fields electric fields field of view field theory (algebra) field theory (physics) gravitational fields	. filament winding RT ceramic fibers composite wrapping fiber composites isotensoid structures laminates metal fibers netting (materials/structures)	GS phase transformations . vaporizing boiling film boiling RT heat transfer
RT	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) boson fields electric fields field of view field theory (algebra) field theory (physics) gravitational fields magnetic fields	. filament winding RT ceramic fibers composite wrapping fiber composites isotensoid structures laminates metal fibers	GS phase transformations . vaporizing . boiling film boiling  RT heat transfer Leidenfrost phenomenon nucleate boiling
RT	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) boson fields electric fields field of view field theory (algebra) field theory (physics) gravitational fields magnetic fields military air facilities	filament winding  RT ceramic fibers composite wrapping fiber composites isotensoid structures laminates metal fibers netting (materials/structures) preimpregnation	GS phase transformations . vaporizing boiling film boiling RT heat transfer Leidenfrost phenomenon nucleate boiling  film condensation
RT	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) boson fields electric fields field of view field theory (algebra) field theory (physics) gravitational fields magnetic fields military air facilities self consistent fields	filament winding  RT ceramic fibers composite wrapping fiber composites isotensoid structures laminates metal fibers netting (materials/structures) preimpregnation  filament wound construction	GS phase transformations . vaporizing . boiling film boiling RT heat transfer Leidenfrost phenomenon nucleate boiling  film condensation GS condensing
	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) 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	filament winding  RT ceramic fibers composite wrapping fiber composites isotensoid structures laminates metal fibers netting (materials/structures) preimpregnation	GS phase transformations . vaporizing . boiling film boiling RT heat transfer Leidenfrost phenomenon nucleate boiling  film condensation GS condensing . film condensation
fighter	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) 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 aircraft	. filament winding RT ceramic fibers composite wrapping fiber composites isotensoid structures laminates metal fibers netting (materials/structures) preimpregnation  filament wound construction USE filament winding	GS phase transformations . vaporizing . boiling film boiling  RT heat transfer Leidenfrost phenomenon nucleate boiling  film condensation GS condensing . film condensation RT condensers (liquefiers)
fighter UF	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) 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  aircraft Interceptor aircraft	filament winding  RT ceramic fibers     composite wrapping     fiber composites     isotensoid structures     laminates     metal fibers     netting (materials/structures)     preimpregnation  filament wound construction     USE filament winding	GS phase transformations . vaporizing . boiling film boiling  RT heat transfer Leidenfrost phenomenon nucleate boiling  film condensation GS condensing . film condensation RT condensers (liquefiers) cooling
fighter	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) 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  aircraft  Interceptor aircraft attack aircraft	. filament winding RT ceramic fibers composite wrapping fiber composites isotensoid structures laminates metal fibers netting (materials/structures) preimpregnation  filament wound construction USE filament winding  ∞ filaments SN (USE OF A MORE SPECIFIC TERM IS	GS phase transformations . vaporizing . boiling film boiling  RT heat transfer Leidenfrost phenomenon nucleate boiling  film condensation GS condensing . film condensation RT condensers (liquefiers)
fighter UF	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) 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  aircraft Interceptor aircraft attack aircraft . fighter aircraft	. filament winding RT ceramic fibers composite wrapping fiber composites isotensoid structures laminates metal fibers netting (materials/structures) preimpregnation  filament wound construction USE filament winding	GS phase transformations . vaporizing . boiling film boiling RT heat transfer Leidenfrost phenomenon nucleate boiling  film condensation GS condensing . film condensation RT condensers (liquefiers) cooling heat transfer
fighter UF	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) 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  aircraft Interceptor aircraft attack aircraft . fighter aircraft . Alpha jet aircraft	. filament winding RT ceramic fibers composite wrapping fiber composites isotensoid structures laminates metal fibers netting (materials/structures) preimpregnation  filament wound construction USE filament winding	GS phase transformations . vaporizing . boiling film boiling RT heat transfer Leidenfrost phenomenon nucleate boiling  film condensation GS condensing . film condensation RT condensers (liquefiers) cooling heat transfer  film cooling
fighter UF	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) 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  aircraft Interceptor aircraft attack aircraft . Alpha jet aircraft . DH 112 aircraft	. filament winding RT ceramic fibers composite wrapping fiber composites isotensoid structures laminates metal fibers netting (materials/structures) preimpregnation  filament wound construction USE filament winding	GS phase transformations . vaporizing . boiling . film boiling  RT heat transfer Leidenfrost phenomenon nucleate boiling  film condensation  GS condensing . film condensation  RT condensers (liquefiers) cooling heat transfer  film cooling  DEF The cooling of a body or surface, such
fighter UF	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) 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  aircraft  Interceptor aircraft attack aircraft . Alpha jet aircraft . DH 112 aircraft . F-2 aircraft	. filament winding RT ceramic fibers composite wrapping fiber composites isotensoid structures laminates metal fibers netting (materials/structures) preimpregnation  filament wound construction USE filament winding	GS phase transformations . vaporizing . boiling film boiling  RT heat transfer Leidenfrost phenomenon nucleate boiling  film condensation GS condensing . film condensation RT condensers (liquefiers) cooling heat transfer  film cooling  DEF The cooling of a body or surface, such as the inner surface of a rocket combustion
fighter UF	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) 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  aircraft Interceptor aircraft attack aircraft . Alpha jet aircraft . DH 112 aircraft	. filament winding RT ceramic fibers composite wrapping fiber composites isotensoid structures laminates metal fibers netting (materials/structures) preimpregnation  filament wound construction USE filament winding	GS phase transformations . vaporizing . boiling . film boiling  RT heat transfer Leidenfrost phenomenon nucleate boiling  film condensation  GS condensing . film condensation  RT condensers (liquefiers) cooling heat transfer  film cooling  DEF The cooling of a body or surface, such

# film thickness

GS	cooling		air filters	RT	alpha decay
ao					
	. evaporative cooling		attenuators		atomic structure
	film cooling		bandpass filters	c	∞ fine
	. liquid cooling		bandstop filters		hyperfine structure
	. film cooling		birefringent filters		line spectra
RT	liquid injection		crystal filters		spectral energy distribution
	surface cooling		digital filters		∞ structures
	•				~ Structures
	sweat cooling		electric filters		
			electromagnetic wave filters	finenes	SS
film thic	ckness		electronic filters	RT	coarseness
GS	dimensions		filter wheel infrared spectrometers	c	∞ fine
	. film thickness		FIR filters	-	fineness ratio
РΤ					
RT	ellipsometry		fluid filters		particle size distribution
	thickness		Gabor filters		purity
			high pass filters		quality
films			image filters		size (dimensions)
SN	(USE OF A MORE SPECIFIC TERM IS		Kalman filters		textures
	RECOMMENDEDCONSULT THE TERMS		linear filters		10/110100
	LISTED BELOW)				
RT	biofilms		low pass filters	finenes	
	coatings		matched filters	DEF	The ratio of the length of a body to it
	corrosion prevention		monochromatic radiation	maximu	im diameter or to some equivalent d
	electrode film barriers		nonlinear filters		n said especially of a body such as a
	fabrics		optical filters		hull or rocket.
			radar filters	GS	ratios
	fluid films			GS	
	helium film		radio filters		. aspect ratio
	Kapton (trademark)		reduced order filters		fineness ratio
	laminates		separators	RT	dimensional analysis
	Langmuir-Blodgett films		spatial filtering		dimensions
			tunable filters		∞ fine
	magnetic films			c	
	membranes	filtuatio.	_		fineness
	metal films	filtratio			oblate spheroids
	monomolecular films	UF	filtering		shape optimization
	oxide films	GS	filtration		slender bodies
	papers		. spatial filtering		thickness ratio
		RT	activated carbon		unoknoso rado
	photographic film				
	polymeric films		beds (process engineering)	fines	
	semiconducting films		beneficiation	GS	particles
	silicon films		concentrating		. powder (particles)
	squeeze films	0	concentration		fines
	superconducting films		concentrators	RT a	∞ fine
			effluents		∞ flour
	thermoplastic films		extraction	C	
	thick films				fractions
	thin films		fluid filters		particle size distribution
	video tapes		hydrometallurgy	0	∞ screening
	webs (sheets)		materials recovery		· ·
	webs (silects)		percolation	finacro	
			precipitation (chemistry)	fingers	
	neel infrared spectrometers			GS	anatomy
GS	measuring instruments		∘ screening		. limbs (anatomy)
	. optical measuring instruments	c	separation		hand (anatomy)
	infrared spectrometers		sewage treatment		fingers
	filter wheel infrared		size separation		appendages
	spectrometers		water treatment		. hand (anatomy)
	•				
	. radiation measuring instruments	financa			fingers
	actinometers	finance		RT	sense organs
	infrared spectrometers	RT	accounting		
	filter wheel infrared		commerce	finaers	(robotics)
	spectrometers		fiduciaries		end effectors
	infrared instruments		gross national product	USL	end enectors
			investments		
	infrared spectrometers			finishes	S
	filter wheel infrared		management planning	GS	finishes
	spectrometers		marketing		. enamels
	. spectrometers		risk		. glazes
	infrared spectrometers		wage surveys		. lacquers
	filter wheel infrared			D.T.	•
		financia	al management	RT	ceramic coatings
	spectrometers	GS	management		coatings
	optical equipment	us	•		corrosion
	. optical measuring instruments		financial management		dopes
	infrared spectrometers	RT	aircraft production costs		impregnating
	filter wheel infrared		allocations		luster
	spectrometers		budgeting		
RT	Ebert spectrometers		cost analysis		machining
	•		cost estimates		metallizing
00	filters				paints
	infrared spectrophotometers		costs		plating
	solar spectrometers		economy		polishing
			federal budgets		primers (coatings)
filtergra	ıms		launch costs		protective coatings
RT	optical filters		life cycle costs		
			procurement management		sizing (surface treatment)
	solar instruments		procurement management		sprayed coatings
	solar physics				surface finishing
	solar spectra	∞ fine			surface properties
		SN	(USE OF A MORE SPECIFIC TERM IS		varnishes
filtering			RECOMMENDEDCONSULT THE TERMS		
	filtration		LISTED BELOW)		veneers
USE	filtration	RT	fine structure		waxes
			fineness		
filters			fineness ratio	finite d	ifference theory
SN	(USE OF A MORE SPECIFIC TERM IS		fines	GS	
	RECOMMENDEDCONSULT THE TERMS		IIIIO	GS	
	LISTED BELOW)				. numerical analysis
RT	absorbers (materials)	fine str			approximation
	adaptive filters	UF	multiplets		finite difference theory

	finite difference time domain		unstructured grids (mathematics)	GS	programs
RT	method computational aeroacoustics	finite-s	tate machines		. projects FIRE (climatology)
111	Crank-Nicholson method		Turing machines	RT	
	difference equations	<b>-</b>			cloud cover
	differences essentially non-oscillatory schemes	Finlan GS	nations		clouds (meteorology) remote sensing
	extrapolation	ao	. Finland		satellite observation
	flux difference splitting	RT			
	flux vector splitting		Finnish space program Scandinavia	fire cor	ntrol
	Godunov method grid generation (mathematics)		Scandinavia	SN	(LIMITED TO CONTROL OF THE FIRING
	interpolation		bodies		OF WEAPONSEXCLUDES FIRE PREVENTION AND FIRE FIGHTING)
	multigrid methods	RT	aerodynamic configurations		bombing equipment
	perfectly matched layers significance		bodies     bodies of revolution		∞ control firing (igniting)
۰	• theories		cooling fins		gunfire
	time marching		fins		gunnery training
	TVD schemes upwind schemes (mathematics)		heat exchangers missile bodies		range finders weapon systems
	vortex in cell technique		nose fins		weapons
	·		projectiles		•
	ifference time domain method		symmetrical bodies	fire cor	ntrol circuits
	ed April 1999)	Finnis	h space program	GS	circuits
UF GS	FDTD (mathematics) analysis (mathematics)		ded November 1990)	DT.	. fire control circuits ∞ control
ao	. numerical analysis	GS	programs . space programs	піч	∞ COIIIIOI
	approximation		European space programs	fire da	mage
	finite difference theory finite difference time domain		Finnish space program	GS	
	method	RT	Finland		. fire damage
	. time domain analysis	fins		RT	ashes
	. finite difference time domain	DEF			charring combustion
RT	method computational electromagnetics		ed longitudinally to an aircraft, rocket, or a		fires
• • • •	electromagnetic scattering		body to provide a stabilizing effect. Also, ate of structure, as a cooling fin. Used for		flames
		vertical			fumes smoke
	lement method	UF	vertical fins		soot
UF GS	hybrid-Trefftz finite element method analysis (mathematics)	GS	fins . cooling fins		
ao	. numerical analysis		. nose fins	fire ext	inguishers
	approximation	RT		UF	3
	finite element method procedures		airfoils airframes	RT	extinguishers fire fighting
	. finite element method		∞ blades		fire prevention
RT •	□ applications of mathematics		control surfaces		firebreaks
	boundary value problems Cholesky factorization		finned bodies hydrofoils		fires flammability
	computational fluid dynamics		missile components		foams
	computational mechanics		rudders		halon
	conjugates		sails stabilizers (fluid dynamics)		
	Crank-Nicholson method factorization		tail assemblies	fire figl	3
	fracture mechanics		vanes	SN	(EXCLUDES FIRE CONTROLCONTROL OF THE FIRING OF WEAPONS)
	grid generation (mathematics)		winglets	RT	breathing apparatus
	isoparametric finite elements iterative solution	fiords			fire extinguishers fire prevention
	matrices (mathematics)	DEF	Arms of the sea having steep sides,		firebreaks
	meshfree methods		ottoms, and shallow sills separating them		fires
٥	<ul> <li>methodology</li> <li>Mindlin plates</li> </ul>	from th GS	landforms		flammability foams
	minimal surfaces	GO	. fiords		ioans
	multigrid methods	RT	cliffs	fire poi	int
	NASTRAN panel method (fluid dynamics)		geology inlets (topography)	RT	flammability
	patch tests		Norway		flash point
	perfectly matched layers		oceanography		spontaneous combustion
	shape functions		water		
	solid mechanics Trefftz method	FIR filt	ers		evention
	unstructured grids (mathematics)	DEF	Physically unrealizable nonrecursive	SN	(EXCLUDES FIRE CONTROLCONTROL OF THE FIRING OF WEAPONS)
		digital filters.	filters. Used for finite impulse response	GS	prevention
	pulse response filters	UF	finite impulse response filters	RT	. fire prevention accident prevention
USE	FIR filters	GS	electromagnetic wave filters		explosion suppression
finite	aliuma maathad		. electric filters		fire extinguishers
	olume method  A moving mesh method for analyzing		digital filters FIR filters		fire fighting firebreaks
	ic flow over airfoils.	RT	bandpass filters		fireproofing
GS	analysis (mathematics)		electronic filters		fires
	. numerical analysis finite volume method		∞ filters IIR filters		flame retardants forest fires
	Godunov method		microwave filters		high pressure oxygen
	procedures		radar filters		safety
	. finite volume method Godunov method		recursive functions		safety devices safety management
RT	boundary value problems	FIRE (	climatology)		smoke detectors
	∘ methodology	(add	ded August 1991)		spontaneous combustion
	TVD schemes	UF	First ISCCP Regional Experiment		warning

warning systems	warning systems	DEF A fundamental quantity in statistical
fire registance	firewalls (computers)	inference that describes an attribute or property of a distribution with known form but uncertain
fire resistance USE flammability	(added January 2003)	parameter values.
OSL Hallillability	DEF Computers, routers, and/or communi-	RT Cramer-Rao bounds
fire retardants	cations devices that filter access to a protected	expectation
USE flame retardants	network. They may also consist of a collabora-	information theory
	tion of such components geared toward protect- ing networks from intrusion from the Internet	likelihood ratio
∞ fireballs	while allowing users inside the network access	fisheries
SN (USE OF A MORE SPECIFIC TERM IS	to services on the Internet, such as Web and	DEF Place for harvesting fish or other
RECOMMENDEDCONSULT THE TERMS LISTED BELOW)	e-mail services.	aquatic life, especially in sea waters.
RT bolides	GS security	RT aquiculture
nuclear explosions	. computer security	estuaries
	f <b>irewalls (computers)</b> RT access control	fishes fishing
Firebee 2 target drone aircraft	computer information security	marine biology
GS drone vehicles . drone aircraft	computer networks	marine resources
target drone aircraft	computer systems design	sea water
Firebee 2 target drone aircraft	intrusion detection (computers)	shallow water
light aircraft	fireworks	tidal flats wetlands
Firebee 2 target drone aircraft	USE pyrotechnics	wellands
pilotless aircraft	,,	fishes
. drone aircraft target drone aircraft	firing (igniting)	UF fish
Firebee 2 target drone aircraft	GS firing (igniting)	GS animals
research vehicles	. rocket firing retrofiring	vertebrates
. research aircraft	. test firing	f <b>ishes</b> schools (fish)
Firebee 2 target drone aircraft	static firing	scrioois (iisri)
Ryan aircraft	RT burning time	RT aguiculture
. Firebee 2 target drone aircraft	detonable gas mixtures	Earth resources
supersonic aircraft . Firebee 2 target drone aircraft	detonation	fisheries
RT ∞ aircraft	drying fire control	fishing
∞ military aircraft	fires	∞ food
targets	flammable gases	ichthyology ∞ nutrients
∞ winged vehicles	gunfire	poikilothermia
	ignition	red tide
firebreaks	pulsejet engines	squama
GS clearings (openings)	starting	wildlife
. f <b>irebreaks</b> RT combustion	firing time	fishing
conservation	UŠE burning time	(added November 1992)
fire extinguishers		RT fisheries
fire fighting	firmware	fishes
fire prevention	DEF Hardwired software which often encompasses microcodes.	industries
fires	RT computer components	schools (fish)
flames forest fires	computer programming	fishtailing
forests	∞ hardware	USE <b>yaw</b>
	microprocessors	,
fireflies	microprogramming	fissile fuels
DEF Flying insects which produce light by	RISC processors	GS fissionable materials
bioluminescence.	first aid	. f <b>issile fuels</b> fuels
GS animals	RT accidents	. nuclear fuels
. invertebrates	chemical defense	fissile fuels
arthropods insects	cures	RT fissium
fireflies	disasters kits	gaseous fission reactors
	medical equipment	nuclear fission
fireproofing	medical science	nuclear reactors
RT fire prevention	medical services	radioactive materials
nonflammable materials	resuscitation	fissile materials
safety	splints	USE fissionable materials
_	stretchers tourniquets	
fires	transfusion	fission
GS fires . forest fires	transidorom	DEF The splitting of an atomic nucleus into two more-or-less equal fragments.
RT accidents	First ISCCP Regional Experiment	RT blankets (fission reactors)
backfire	USE FIRE (climatology)	fuel production
burns (injuries)	Fischer-Tropsch process	nuclear fuels
combustion	RT catalysis	splitting
control surfaces	catalytic activity	Control of the Control
deflagration explosions	reaction kinetics	fission electric cells GS auxiliary power sources
explosions explosives	synthesis (chemistry)	. nuclear auxiliary power units
fire damage	synthetic fuels	SNAP
fire extinguishers	fish	fission electric cells
fire fighting	USE <b>fishes</b>	SNAP 2
fire prevention		SNAP 4
firebreaks	Fishbowl Operation	SNAP 8
firing (igniting) flames	RT high altitude tests	SNAP 10A space power reactors
flashback	nuclear explosions ∞ operations	fission electric cells
hazards	∞ operations  Vela satellites	SNAP 2
safety	rola catolinos	SNAP 4
Saint Elmo fire	Fisher information	SNAP 8
smoldering	(added March 2004)	SNAP 10A

	nuclear electric power generation		tectonics	UF	fix
	. nuclear auxiliary power units			RT	maintenance
	SNAP	fitness			navigation
		GS	fitness		
	fission electric cells	GS			position (location)
	SNAP 2		. flight fitness		positioning
	SNAP 4		. physical fitness		
	SNAP 8	RT	qualifications	fixtures	•
	SNAP 10A		•	RT	
		fitting			brackets
	space power reactors			0	∞ hardware
	fission electric cells	RT	adaptation		jigs
	SNAP 2		adjusting		luminaires
	SNAP 4		alignment		
			assembling		tools
	SNAP 8				
	SNAP 10A		fittings	Fizeau	effect
	. nuclear power reactors		goodness of fit	RT	Doppler effect
	space power reactors		interference fit		• •
			∘ joining		Doppler-Fizeau effect
	fission electric cells			0	∞ effects
	SNAP 2		matching		
	SNAP 4		positioning	Flagella	ata
	SNAP 8			GS	
		fittings		GS	animals
	SNAP 10A	RŤ	accessories		. protozoa
	nuclear reactors				Flagellata
	. nuclear power reactors		adapters		Euglena
	space power reactors		closures		trypanosome
			connectors		
	fission electric cells		couplings		microorganisms
	SNAP 2		• •		. protozoa
	SNAP 4		extensions		Flagellata
	SNAP 8		fasteners		Euglena
	SNAP 10A		fitting		•
-			inserts		trypanosome
RT ∞	electric cells				
	radioisotope batteries		joints (junctions)	flakes	
	space power unit reactors		linkages		
	space power and reactors		sleeves	GS	particles
			U bends		. flakes
ficcion r	oroducts			RT	flaking
			unions (connectors)		metal powder
	The large variety of smaller atoms,				
including	cesium and strontium, left over by the	Fitzgera	ald-Lorentz contraction		powder (particles)
splitting	of uranium and plutonium, usually	UŠF	Lorentz contraction		
	by the absorption of a neutron.	002		flaking	
		fi.		RT	atomizing
GS	products	fix		111	•
	. fission products	USE	fixing		chipping
RT	chain reactions (nuclear physics)				comminution
	fallout	fixed po	oint arithmetic		cutting
			number theory		disintegration
	high energy interactions	do			
	nuclear fission		. arithmetic		flakes
	nuclear particles		fixed point arithmetic		fracturing
	nuclear pumping	RT	computer programs		peeling
					∞ separation
	nuclear radiation		computers		
	radioactive materials		data processing		spalling
	radioactive wastes				splitting
		fixed po	oints (mathematics)		wear
	radioactivity		Positional notation in which corre-		woul
ficales .			g places in different quantities are occu-	flame c	alorimeters
	weapons	pied by	coefficients of the same power of the	GS	measuring instruments
UF	atomic bombs		lotation in which the base point is as-		. calorimeters
GS	weapons		to remain fixed with respect to one end of		flame calorimeters
	. nuclear weapons		•		Hame calorimeters
		the num	neric expressions.	RT	bomb calorimeters
	fission weapons	GS	geometry		drop calorimeters
RT	fallout		Euclidean geometry		heat measurement
	nuclear devices		points (mathematics)		
	thermonuclear explosions				high temperature tests
	thermondolear explosions		fixed points (mathematics)		temperature measuring instruments
			. topology		
ficciona	ble materials		fixed points (mathematics)	flame d	leflectors
		RT	manifolds (mathematics)		
	Materials containing nuclides capable	111	mapping		In a vertical launch, any of various
	going fission only by fast neutrons with		парріпу	•	ed obstructions that intercept hot gase
energy (	greater than 1MeV, e.g., thorium-232		_	of rocke	et engines so as to deflect them awa
and urar	nium-238. Used for fissile materials.	fixed w	ings	from the	e ground or from a structure. In captive
	fissile materials	UF	fixed-wing aircraft		lbows in the exhaust conduits or flam-
		GS	airfoils		
GS	fissionable materials	40			that deflect the flame into the open.
	. fissile fuels		. wings	GS	deflectors
RT	gaseous fission reactors		fixed wings		. flame deflectors
	materials	RT	cambered wings	RT	backfire
			cruciform wings		
	nozzle flow				baffles
	nuclear fuels		flexible wings		blast deflectors
	plutonium		low aspect ratio wings		diverters
	radioactive materials		rigid wings		flashback
			slender wings		
	uranium				launching pads
			swept wings		safety devices
			thin wings		shielding
fissium			twisted wings		test stands
	fuels		uncambered wings		tost statius
5.5	. nuclear fuels				
			unswept wings	flame fr	ronts
	fissium				flame propagation
RT	fissile fuels	fixed-wi	ng aircraft	002	h. ahadana,,
			aircraft configurations		
		USE		flame h	nolders
fissures	(geology)		fixed wings	GS	holders
DEF	Extensive cracks in rocks.			40	. flame holders
		∞ fixing		DT	
RT	folds (geology)	SN	(USE OF A MORE SPECIFIC TERM IS	RT	combustion chambers
	geological faults	OIN	RECOMMENDEDCONSULT THE TERMS		dump combustors
	structural properties (geology)		LISTED BELOW)		flameout
			- /		

flames coatings spontaneous combustion metal spraying metallizing flame interaction flammable gases USE chemical reactions plasma spraying explosive gases GS flame propagation gases . flammable gases flame stability flame ionization . . gaseous fuels dynamic characteristics GS ionization . . . natural gas . dynamic stability . gas ionization . . . . liquefied natural gas . . combustion stability . . flame ionization . . liquefied natural gas ... flame stability . pyrogen . . motion stability flame plating RT chemical explosions . . . flow stability GS plating detonable gas mixtures . flame stability flame plating explosives . flow characteristics RT coating firing (igniting) . . flow stability welding flammability . flame stability gas explosions stability flame probes hazards . dynamic stability GS measuring instruments ... combustion stability flame probes flange wrinkling . . . flame stability RT gas analysis wrinkling GS . . motion stability manometers flange wrinkling . . . flow stability temperature measuring instruments buckling . . . flame stability flameout flame propagation flanges turbulent flames Chapman-Jouget flame ŘΤ connectors combustion waves metal plates flame fronts flame temperature flame interaction GS temperature flap control GS propagation (extension) . flame temperature aircraft control flame propagation combustion chemistry flaps (control surfaces) RT backfire combustion temperature boundary layer combustion burning rate Airplane control surfaces that serve flameout combustible flow the function of both aileron and flap. DEF Unintended loss of combustion in turcombustion GS airfoils bine engines resultiing in the loss of engine combustion physics . ailerons power. Damkohler number . flaperons blowoff (combustion) UF . flaps (control surfaces) detonation GS extinguishing detonation waves . flaperons flameout explosions control surfaces RT combustion flames . ailerons combustion chambers . flaperons flammability flame holders . flaps (control surfaces) flashback flame stability gas explosions . flaperons gas turbine engines gas-metal interactions aerodynamic brakes jet engines ignition flapping premixed flames flames pressure oscillations airfoil oscillations RT jet flames pressure pulses flutter laminar flames resonant vibration ∞ propagation GS flames rotor aerodynamics reacting flow turbulent combustion . diffusion flames shaking premixed flames turbulent flames undamped oscillations turbulent flames vibration combustion wing oscillations flame quenching fire damage USE extinguishing firebreaks quenching (cooling) flapping hinges fires GS hinges flame holders flame retardants flapping hinges flame propagation UF fire retardants rotary wings retardants GS rotor aerodynamics forest fires flame retardants fuels RT antimisting fuels flaps (control surfaces) smog fabrics UF flap control turbulent combustion fire prevention GS airfoils flammability . flaps (control surfaces) flammability halon . . externally blown flaps ignition limits Those characteristics of a material that . upper surface blown flaps inorganic compounds pertain to its relative ease of ignition and relative . . flaperons polybrominated biphenyls ability to sustain combustion. Used for combus-. . jet flaps synthetic fibers tibility and fire resistance. . . split flaps combustibility . . wing flaps flame spectroscopy fire resistance . . . leading edge flaps spectroscopy burning rate leading edge slats . flame spectroscopy combustion . . . trailing edge flaps spectrum analysis detonable gas mixtures vortex flaps . flame spectroscopy fire extinguishers control surfaces emission spectra fire fighting . flaps (control surfaces) gas spectroscopy fire point . . externally blown flaps . upper surface blown flaps line spectra flame propagation optogalvanic spectroscopy flame retardants . . flaperons . . jet flaps qualitative analysis flammable gases spectroscopic analysis flash point . . split flaps ignition . . wing flaps . . leading edge flaps . . leading edge slats . . trailing edge flaps ignition limits flame spraying ignition temperature GS spraying pyrophoric materials . flame spraying . . . vortex flaps . HVOF thermal spraying ∞ resistance

smoldering

RT aerodynamic brakes

RT

coating

	brakes (for arresting motion)		fire point		molds
c	o control		flammability		moids
	drag devices		ignition	flat pla	tes
	GAW-2 airfoil		spontaneous combustion	GS	structural members
	lift devices		vapor pressure		. plates (structural members)
	spoilers		volatility		flat plates
c	∘ surfaces			RT	annular plates
		flash tu			Blasius equation
flare st		USE	flash lamps		Blasius flow
DEF		flash w	elding		circular plates
	eudden intensive outbursts of energy.  or UV Ceti stars.		welding		dynamic structural analysis
	UV Ceti stars	0.0	. fusion welding		end plates
GS	celestial bodies		electric welding		flatness fluid mechanics
	. stars		flash welding		heat transfer
	late stars	RT <	∞ flash		metal plates
	cool stars		pressure welding		panels
	flare stars		.1		parallel plates
	main sequence stars	flashba			planar structures
	dwarf stars	DEF	Backward burning of a flame into the burner or torch.		plate theory
	flare stars	RT		c	∘ plates
	variable stars	111	combustion		rectangular plates
DT	flare stars		deflagration	0	∘ sheets
RT	cataclysmic variables		explosions		slabs
	M stars solar flares		fires		thick plates
	stellar activity		flame deflectors		thin plates
	stellar flares		flame propagation	flat a	fanna
	symbiotic stars			flat sur UF	facets
	cympione ciaic		g (vaporizing)	RT	Cosserat surfaces
flared b	oodies		The evaporation of a heated liquid as a	n i	flatness
RT	afterbodies		uence of rapid pressure reduction.		planar structures
	aircraft configurations	GS	phase transformations	c	surface geometry
c	∘ flares		. vaporizing		surface properties
	spacecraft configurations	рт	flashing (vaporizing)	c	∘ surfaces
	symmetrical bodies	RT	distillation evaporation		
			∘ flash	flatnes	s
∞ flares			prevaporization	GS	shapes
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	c	separation		. flatness
	LISTED BELOW)			RT	concavity
RT	flames	flashov	rer		contours
	flared bodies	GS	electric current		convexity
	illuminating		. electric discharges		etalons
	lighting equipment		flashover		flat layers
	luminaires	RT	electric arcs		flat plates
	pyrotechnics		electric sparks		flat surfaces flattening
	runway lights solar flares		electrical faults		interferometers
	Solar Maximum Mission		failure		mechanical properties
	solar terrestrial interactions	flasks			planar structures
	stellar activity	RT	bottles		roughness
	stellar flares	• • • • • • • • • • • • • • • • • • • •	glassware	c	surface geometry
			g		ů ,
∞ flash		flat coa	xial transmission lines	flats (la	indforms)
SN	(USE OF A MORE SPECIFIC TERM IS	USE	microstrip transmission lines	DEÈ	A general term for level or nearly level
	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		T. A. C.	surface	s or small areas of land marked by little
UF	light duration		nductors		elief such as plains. Also, nearly level
RT	electric discharges	GS	conductors		that visibly display lower relief than their
	explosions		. flat conductors beam leads		dings. Used for adobe flats and salt flats.
	flash welding	RT	bus conductors	UF	
	flashing (vaporizing)		circuits	GS	salt flats
	light (visible radiation)		connectors	GS	landforms . flats (landforms)
	radiography		electric connectors		tidal flats
	solar flares		electric contacts	RT	Earth resources
flack b	lindness		electric wire		marshlands
	lindness blindness		wire		mesas
do	. flash blindness		wiring		plains
RT	eye protection	flat lass			salt beds
***	light adaptation	flat lay			
	vision		flatness	flatteni	ng
		c	∘ layers planar structures	RT	ductility
flash la	mps		strata		ellipticity
UF			stratification		flatness
GS	lighting equipment		ou duniodion		leveling
	. luminaires	flat par	nel displays		metal working
	flash lamps	(add	ed September 1994)		oblate spheroids
	alkali vapor lamps	GS	display devices	c	∘ rolling
RT	light sources		. flat panel displays		smoothing
	xenon lamps	RT		61 a.b	ma
411	_:		consoles	flatwor	<b>ms</b> animals
flash p			human factors engineering	GS	. invertebrates
	The temperature at which a substance, fuel oil, will give off a vapor that will flash		imaging techniques		worms
	momentarily when ignited.		indicating instruments		flatworms
GS	temperature	flat pat	terns	RT	infestation
43	ignition temperature		Shape of a part or parts put in 3 space		- <del></del>
	flash point		defined condition.	flavor (	particle physics)
				DEF	The specific identifiers of quarks which
RT	combustion temperature	RT	castings	DLI	The specific identifiers of quarks willor

distinguish various combinations of electric GS aerospace vehicles by orbital speed; especially the movement of a charge and mass. flexible spacecraft man-operated or man-controlled device, such hadrons flexible bodies as a rocket, a space probe, a space vehicle, or particle interactions flexible spacecraft an aircraft. Used for flying, high altitude flight, particle theory RT artificial satellites and high speed flight. displacement ∞ physics flying quantum theory elastic deformation high altitude flight quark models flexing high speed flight quarks large space structures RT aerodynamics satellite control ∞ aeronautics theoretical physics balloon flight satellite orientation flaw detection satellite rotation climbing flight nondestructive tests coasting flight USE shape control cruising flight spacecraft flaws spacecraft control flight altitude USE defects spacecraft motion flight control flight mechanics structural vibration fleet ballistic missiles flight optimization vibration damping FBM (missiles) flight paths flight safety flight tests GS missiles flexible wings . surface to surface missiles UF Rogallo wings . . fleet ballistic missiles GS airfoils flight time ... Polaris A1 missile . wings formation flying . . . Polaris A2 missile . . flexible wings free flight ... Polaris A3 missile . . parawings gliding ... Poseidon missiles fixed wings horizontal flight . . Subroc missile gliders hypersonic flight ballistic missile submarines hang gliders infinite span wings long duration space flight guided missile submarines lunar flight intercontinental ballistic missiles inflatable structures meteorological flight intermediate range ballistic missiles rigid wings parabolic flight sea launching thin wings rocket flight twisted wings soaring Fleet Satellite Communication System XV-8A aircraft space flight DEF Global communication system utilizing steering satellites. Used for FLEETSATCOM and FLTflexing suborbital flight flexure UF supersonic flight UF Fleetsatcom RT bending trajectories camber Fltsatcom transition flight GS ∞ chambers telecommunication transoceanic flight . Defense Communications Satellite curvature transonic flight deflection System turning flight . . Fleet Satellite Communication deformation vertical flight System distortion visual flight communication satellites flexibility Marisat satellites flexible spacecraft flight altitude microwave transmission folding GS altitude military technology heaving . flight altitude NASCOM network loading moments air traffic control navy ceiling (aircraft capability) flexors radio communication ∞ flight GS anatomy ∞ systems midaltitude . musculoskeletal system ultrahigh frequencies . . muscles flight characteristics . flexors Fleetsatcom DEF Characteristics exhibited by an aircraft, Fleet Satellite Communication RT joints (anatomy) rocket, or the like in flight, such as a tendency to USE System stall or to yaw, or an ability to remain stable at Flexowriters (trademark) certain speeds. Used for flight performance and USE automatic typewriters flexibility flying qualities. That property of a material by virtue of flight performance flexural strength which it may be bowed repeatedly without unflying qualities (added September 1995) dergoing rupture. That property of a material by GS flight characteristics DEF DEF The bending load that a material virtue of which it may be flexed or bowed . flight envelopes can withstand without fracturing - it's resistance repeatedly without undergoing rupture. Used for . pilot ratings to fracture. nonrigidity. . Cooper-Harper ratings UF bending strength UF nonrigidity aerodynamics mechanical properties mechanical properties GS GS aircraft maneuvers . fracture strength flexibility aircraft performance . flexural strength RT bending aircraft specifications bend tests elastic properties airspeed bending fatigue flexing buffeting ceiling (aircraft capability)

∞ characteristics static loads nonuniformity plastic properties ∞ strength ∞ rigidity controllability softness flexure flight control USE flexing stiffness flutter versatility helicopter performance highly maneuverable aircraft flicker critical flicker fusion RT flexible bodies in-flight simulation light transmission flexible bodies low speed stability GS flexible spacecraft maneuverability flicker fusion frequency RT ∞ bodies ∞ performance critical flicker fusion USE hybrid structures quality inflatable structures ∞ flight flight clothing (USE OF A MORE SPECIFIC TERM IS RECOMMENDED:-CONSULT THE TERMS LISTED BELOW)
The movement of an object through clothing flexible spacecraft GS . flight clothing DEF Space vehicles (usually space struc-

the atmosphere or through space, sustained by

aerodynamic, aerostatic, or reaction forces, or

coveralls

garments

goggles

tures or rotating satellites) whose surfaces and/or appendages may be subject to elastic

flexural deformations (vibrations).

helmets landing instruments pilots (personnel) pressure suits Light Airborne Multipurpose System protective clothing flight envelopes measuring instruments The bounds within which a certain navigation instruments flight system can operate, especially a graphic night flights (aircraft) representation of these bounds showing interreonboard equipment USE airborne/spaceborne computers lationships of operational parameters. position indicators flight characteristics flight envelopes radio direction finders flight conditions aerodynamic characteristics rate of climb indicators GS conditions aerodynamic stability recording instruments flight conditions aircraft control satellite instruments aircraft icing aircraft maneuvers solar compasses aviation meteorology aircraft performance spacecraft instruments cloud cover aircraft stability spacecraft position indicators cockpit weather information systems envelopes speed indicators instrument flight rules flight tests star trackers meteorological services helicopter performance TERCOM storms (meteorology) maneuverability visual flight terrain following flight load recorders weather forecasting GS aircraft instruments flight fatigue . flight recorders fatigue (biology) . flight load recorders GS flight control flight fatigue data recorders GS flight control . flight recorders . automatic flight control aerospace medicine flight crews . flight load recorders . automatic landing control fly by light control fly by tube control fly by wire control measuring instruments
. flight recorders ∞ flight stress flight stress (biology) . . flight load recorders pilot performance recording instruments
. flight recorders
. flight load recorders thrust vector control flight fitness aerobatics GS air traffic control flight fitness RT strain gages aircraft control RT ∞ flight stress aircraft instruments flight management systems
GS management systems flying personnel aircraft survivability physical examinations attitude control physical fitness . flight management systems attitude indicators air navigation air traffic control automated en route ATC flight hazards automatic control airborne/spaceborne computers automatic flight control GS hazards automatic pilots . flight hazards ocontrol . meteoroid hazards automatic landing control control configured vehicles air piracy control stability avionics air traffic computer techniques control sticks aircraft accidents control surfaces flight control aircraft hazards display devices ground based control aircraft icing aircraft safety entry guidance (STS) ∞ flight navigation aids onboard data processing aircraft spin flight characteristics pilot support systems aviation meteorology flight management systems situational awareness bird-aircraft collisions formation flying systems engineering ground based control birds collisions flight mechanics ground support equipment crash landing guidance (motion) mechanics (physics) crashes . flight mechanics helicopter control in-flight monitoring destruction aerodynamics in-flight simulation downbursts ascent trajectories instrument approach microbursts (meteorology) descent trajectories instrument landing systems midair collisions flight noise (sound) missile trajectories maneuverability maneuvers missile control operational hazards orbit calculation toxic hazards orbit decay weather orbital mechanics navigation o platforms navigation aids flight instruments reentry trajectories navigation instruments pointing control systems GS flight instruments rendezvous . approach indicators rendezvous trajectories radio navigation attitude indicators space flight remote control . gyro horizons space mechanics rocket engine control automatic pilots spacecraft reentry solar compasses flight test instruments spacecraft trajectories spacecraft control horizon scanners thrust programming stability augmentation radio altimeters trajectories turbojet engine control air navigation trajectory measurement airborne equipment trajectory optimization flight crews aircraft control aircrews aircraft equipment flight nurses personnel aircraft instruments GS personnel altimeters . medical personnel .. flight crews bubble technique flight nurses . spacecrews cockpit weather information systems RT crews . flying personnel compasses .. flight crews flight operations
DEF Collective term for ground support opdisplay devices . . spacecrews engine control erations by flight crew or support personnel preparatory to space flight, or tasks performed engine monitoring instruments aircraft pilots crew procedures (inflight) head-up displays crew procedures (preflight) instrument approach by crew during flight. instrument flight rules crew size flight operations

instrument landing systems

∞ instruments

flight fatigue

navigators

GS

. crew procedures (inflight) aircraft maintenance

### flight optimization

crew procedures (preflight) . flight recorders ∞ missile simulators ground handling . flight load recorders motion simulation onboard equipment measuring instruments motion simulators preflight operations . flight recorders pilot training refueling . . flight load recorders space environment simulation recording instruments space simulators flight optimization . flight recorders test facilities GS optimization . . flight load recorders training devices flight optimization wind tunnels burning time flight rules Earth-Venus trajectories GS rules flight stability tests ∞ flight . flight rules GS flight tests great circles . . instrument flight rules . flight stability tests orbital mechanics . visual flight rules stability tests air navigation . flight stability tests parking orbits air traffic control aerodynamic stability space flight collision avoidance thrust programming National Airspace Utilization System National Aviation System trajectories ∞ flight stress (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) flight fatigue trajectory optimization noise reduction flight safety Paths made or followed in the air or in GS safety flight fitness space by an aircraft or rocket; the continuous flight safety flight safety series of positions occupied by a flying body; aerospace safety human factors engineering more strictly, the path of the center of gravity of air piracy space flight stress the flying body, referred to the Earth or other air traffic control stress analysis fixed reference. aircraft accidents stresses GS flight paths aircraft approach spacing . glide paths aircraft hazards flight stress (biology)
SN (EXCLUDES MECHANICAL STRESS AND air navigation aircraft icing AND STRAIN) stress (biology) aircraft safety air traffic air traffic control aircraft spin GS all-weather landing systems . flight stress (biology) aircraft instruments . . space flight stress aircraft maneuvers aviation meteorology acceleration (physics) collision avoidance airspace approach crashes biological effects biology flight fatigue crashworthiness approach control area navigation destruction jet lag physiological factors psychological factors stress (physiology) emergency landing caustic lines climbing flight ∞ flight ∞ flight stress collision avoidance flying ejection seats midair collisions collisions stress (psychology) descent onboard equipment ∞ drift weightlessness runway incursions safety devices ∞ flight flight surgeons gliding Global Positioning System self sealing GS personnel . medical personnel great circles terrorism ground tracks visual flight . . surgeons guidance (motion) . . flight surgeons flight simulation GS simulation horizontal flight flight technical error missile trajectories . flight simulation USE pilot error National Airspace Utilization System . . in-flight simulation acoustic simulation navigation flight termination systems RT navigation aids USE abort apparatus altitude simulation orbits ∞ paths analog simulation flight test instruments computerized simulation reentry flight instruments
. flight test instruments rocket flight control simulation GS satellite ground tracks environment simulation aircraft instruments solar compasses landing simulation motion simulation rocket-borne instruments swath width scene generation spacecraft instruments Tacan space environment simulation trajectories turning flight space flight flight test vehicles uncontrolled reentry (spacecraft) systems simulation DEF Test vehicles for the conduct of flight tests either to test its own capabilities or to carry training simulators vertical flight virtual reality equipment requiring flight tests. visual flight weightlessness simulation GS test vehicles . flight test vehicles flight performance flight simulators RT ∞ aircraft USÉ flight characteristics Training devices or apparatus that launch vehicles simulate certain conditions of flight or of flight missiles flight plans research aircraft air navigation operations. air traffic GS simulators ∞ spacecraft air traffic control . training simulators ∞ vehicles . . flight simulators X-36 aircraft approach instrument flight rules . cockpit simulators training devices National Airspace Utilization System flight tests . training simulators DEF Tests by means of actual or attempted ∞ plans

. . flight simulators

control simulation

centrifuges

. . . cockpit simulators atmospheric entry simulation

cryogenic wind tunnels in-flight simulation

Langley complex coordinator lunar orbit and landing simulators

flight to see how an aircraft, spacecraft, space-

air vehicle, or missile flies. Tests of a component

part of a flying vehicle, or of an object carried in

such a vehicle, to determine its suitability or

reliability in terms of its intended function by

making it endure actual flight.

flight tests

air start

. flight stability tests

GS

RT

352

routes

weather

flight recorders

thrust programming

aircraft instruments

. flight recorders

data recorders

. flight load recorders

	aircraft design	RT	computer storage devices	RT	drainage patterns
	altitude tests		data storage		hydrology
	certification		fluid switching elements		landslides
	DAST program		fluidic circuits		precipitation (meteorology)
	downrange		oscillators		seepage
	dynamic tests	ELID 4			storms
	engine tests	FLIR de			storms (meteorology)
٥	<ul><li>flight</li><li>flight envelopes</li></ul>		all emissions of heat or light. Used for		tides water erosion
	free flight test apparatus		looking infrared detectors.		water flow
	full scale tests	UF	forward looking infrared detectors		water now
	ground tests	GS	measuring instruments	flood pl	ains
	high altitude tests		. radiation measuring instruments		The surfaces or strips of relatively
	highly maneuverable aircraft		actinometers		land adjacent to river channels, con-
	in-flight monitoring		radiometers	structed	by the present rivers in their existing
	in-flight simulation		infrared detectors		s and covered with water when the
	missile design		FLIR detectors	rivers ov	
	missile tests		infrared instruments	GS	
	postmission analysis (spacecraft)		infrared detectors FLIR detectors		. plains
	space electric rocket tests	RT ~	odetectors		flood plains landforms
	stability tests ∘ tests	пго	infrared radar		. plains
Ü	vibration tests	۰	sensors		flood plains
	wing flow method tests		55.155.15	RT	floods
	g	float zo	nes		hydrogeology
flight ti	me	RT	crystal growth		hydrology
ĎEF	The time from the moment an aircraft		melts (crystal growth)		,
first mov	ves under its own power for the purpose		silicon		redictions
of flight	until the moment it comes to rest at the		solar cells	GS	predictions
	int of landing.		space processing		. flood predictions
GS	time		zone melting	RT	floods
	. flight time	fleeting			hydrogeology
RT	air traffic control	floating RT	ballast (mass)		hydrology
	burning time	П	buoyancy		precipitation (meteorology) rain
٥	oflight		floats		rainstorms
	testing time trajectories		noato	00	showers
	transit time	floating	point arithmetic		storms (meteorology)
	turnaround (STS)		number theory		weather forecasting
	windows (intervals)		. arithmetic		3
	( ' ' ' ' ' '		floating point arithmetic	floods	
flight tr	aining	RT	computer programs	DEF	Rising bodies of water (as in streams,
	education		computers		eas, or behind dams) that overtop their
	. flight training		data processing		or artificial confines and that cover land
	pilot training	floats			mally underwater. Especially, any rela-
	space flight training	UF	flotation systems		gh streamflows that overflow their banks
	astronaut training	RT	ballast (mass)		each of the stream, or that are measured
RT	ejection training	111	buoys	by gage RT	height of discharge quantity. alluvium
	flying personnel		emergency life sustaining systems	п	drought
	training simulators		floating		flood plains
flight v	ahialaa		inflatable structures		flood predictions
∞ flight v SN	(USE OF A MORE SPECIFIC TERM IS		landing gear		hydrology
OIN	RECOMMENDEDCONSULT THE TERMS		life rafts		hydrology models
БТ	LISTED BELOW)		rafts		Mississippi River (US)
КI	aircraft configurations		separators		precipitation (meteorology)
	ground effect machines hypersonic vehicles	£1 1 -	Al		storm damage
	lunar flying vehicles	floccula			storms
	missiles	RT	agglomeration		storms (meteorology)
	reentry vehicles		coagulation coalescing		tides
	research vehicles		colloiding		water flow water management
	rocket vehicles		concentrating		watersheds
٥	∘ vehicles		flotation		Watersheds
			micelles	floors	
flint			precipitation (chemistry)	UF	decks (floors)
GS	chalcogenides		settling	RT	basements
	. oxides		water treatment		buildings
	dioxides				ceilings (architecture)
	flint	flood co			doors
	silicon compounds		The prevention or reduction of damage	∞	platforms
DT	. f <b>lint</b> quartz		by flooding, as by containing water in		substructures
111	quaitz		rs removed from areas where it would age, improving channel capacity to con-		tiles
flip-flop	ne .		er past or through critical areas with the		walls
	Devices having two stable states and		nount of damage, and diverting excess	Floquet	theorem
	ut terminals (or types of input signals)		to bypasses or floodways.		theorems
	which corresponds with one of the two		canals	-	. Floquet theorem
states.	The circuits remain in either state until	0	o control	RT	differential equations
			dams		linear equations
	to change to the other state by applica-				
davicas	ne corresponding signal. Similar bistable		drainage		periodic functions
	he corresponding signal. Similar bistable with an input which allows it to act as a		hydrology		periodic functions
single-s	ne corresponding signal. Similar bistable with an input which allows it to act as a tage binary counter. Used for bistable		hydrology rainstorms	flora	
single-s amplifie	ne corresponding signal. Similar bistable with an input which allows it to act as a tage binary counter. Used for bistable rs.		hydrology rainstorms storm damage	flora USE	plants (botany)
single-s amplifie UF	ne corresponding signal. Similar bistable with an input which allows it to act as a tage binary counter. Used for bistable rs.  bistable amplifiers		hydrology rainstorms storm damage storms (meteorology)	USE	
single-s amplifie	ne corresponding signal. Similar bistable with an input which allows it to act as a tage binary counter. Used for bistable rs.  bistable amplifiers circuits		hydrology rainstorms storm damage	USE <b>Florida</b>	plants (botany)
single-s amplifie UF	ne corresponding signal. Similar bistable with an input which allows it to act as a tage binary counter. Used for bistable rs.  bistable amplifiers circuits bistable circuits	flood d	hydrology rainstorms storm damage storms (meteorology) watersheds	USE	plants (botany)
single-s amplifie UF	ne corresponding signal. Similar bistable with an input which allows it to act as a tage binary counter. Used for bistable rs.  bistable amplifiers circuits bistable circuits flip-flops	flood d: GS	hydrology rainstorms storm damage storms (meteorology) watersheds	USE <b>Florida</b>	plants (botany) nations . United States
single-s amplifie UF	ne corresponding signal. Similar bistable with an input which allows it to act as a tage binary counter. Used for bistable rs.  bistable amplifiers circuits bistable circuits		hydrology rainstorms storm damage storms (meteorology) watersheds	USE <b>Florida</b>	plants (botany)

		Gulf of Mexico	۰	∘ characteristics		isothermal flow
		Merritt Island (FL)		critical flow		method of characteristics
	41-4-4:	_		cross flow		numerical flow visualization
	flotation RT	<b>1</b> activation		eddy viscosity		particle image velocimetry
	ΗI	beneficiation		inviscid flow		reattached flow
		classifiers		laminar flow nonuniform flow		rheoelectrical simulation separated flow
		coagulation		outlet flow		stagnation point
		concentrating		reattached flow		Strouhal number
		flocculating		separated flow		three dimensional bodies
		fluid rotor gyroscopes		steady flow		trapped vortices
		foaming		Strouhal number		velocity distribution
		levitation		subcritical flow		vortex sheets
	~	separation		supercritical flow		water tunnel tests
		settling		turbulence		wind tunnel tests
		size separation		turbulent flow		
		suspension systems (vehicles)		viscosity		uations
		water treatment		viscous flow	GS	flow equations
	flotation	systems	flow ch	arte		boundary layer equations     Blasius equation
		floats		Graphical representations of se-		. Chaplygin equation
	002	nouto		s of operations using symbols to repre-		. Navier-Stokes equation
000	flour			e operations. Flow charts are more de-		. Reynolds equation
	SN	(USE OF A MORE SPECIFIC TERM IS		epresentations than diagrams.		. Von Karman equation
		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		charts		. vorticity equations
	RT	fines		. flow charts		Helmholtz vorticity equation
		flour (food)	RT	block diagrams		. Burnett equations
				computer programming	RT	Baldwin-Lomax turbulence model
	flour (fo	ood)		data flow analysis		Bernoulli theorem
		∍ flour	۰	oflow graphs		computational fluid dynamics
	~	food		mathematical models		convection-diffusion equation
		millet	flow oo	officients		equations
		powder (particles)	GS	efficients coefficients	٥	∘ flow
			GS	. flow coefficients		fluid flow
00	flow			discharge coefficient		k-epsilon turbulence model
	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	RT	aerodynamic coefficients		particle in cell technique Percus method
		LISTED BELOW)	111	attenuation coefficients		Rayleigh equations
	DEF	A stream or movement of air or other		mass flow factors		Reynolds averaging
	fluid, or	the rate of fluid movement, in the open		nozzle thrust coefficients		space-time CE/SE method
		duct, pipe, or passage; specifically, an		reflectance		turbulence models
	airflow.			transport properties		
	RT	aerodynamics			flow fiel	'ds
		annular flow	flow de	flection	USE	flow distribution
		Brillouin flow	RT	computational fluid dynamics		
		cavity flow circulation		deflectors	flow ge	ometry
		corner flow		flow distribution	GS	geometry
		creep properties		flow velocity		. flow geometry
		cross flow		Prandtl-Meyer expansion	RT	annular flow
		exhaust nozzles	flow di	ection indicators		axial flow
		flow equations	GS	display devices		axisymmetric flow
		flow velocity	40	. flow direction indicators		backward facing steps
		fluid flow		wind vanes		bypass ratio
		grazing flow		measuring instruments		channel flow
		heat transmission		. indicating instruments		coaxial flow
		information flow		flow direction indicators		core flow cross flow
		interactional aerodynamics		wind vanes		ducted flow
		inviscid flow				helical flow
		low density flow	flow dis			horseshoe vortices
		mass flow	GS	distortion		inlet airframe configurations
		orifice flow	5.7	. flow distortion		inlet flow
		outlet flow	RT	aerodynamic coefficients		laminar flow
		panel method (fluid dynamics)		fluid flow		meridional flow
		plastic flow		horseshoe vortices		nozzle flow
		reacting flow shear flow		multiphase flow		one dimensional flow
		solids flow		Orr-Sommerfeld equations oscillating flow		parallel flow
		steady flow		small perturbation flow		radial flow
		transonic flow		vortices		steady flow
		unsteady flow		wing tip vortices		stratified flow
		viscous flow		Wing up voluces		three dimensional flow
			flow dis	stribution		two dimensional flow
	flow cha	ambers	UF	flow fields		wedge flow
	RT ∝	o chambers		flow patterns	<b>4</b> 1	
			GS	distribution (property)	∞ flow gr SN	(USE OF A MORE SPECIFIC TERM IS
	flow cha	aracteristics		. flow distribution	SIN	RECOMMENDEDCONSULT THE TERMS
	GS	dynamic characteristics		dynamic characteristics		LISTED BELOW)
		. flow characteristics		. flow characteristics	RT	equipotentials
		flow distribution		flow distribution		flow charts
		flow stability	RT	boundary layer flow		flow distribution
		boundary layer stability		boundary layer separation		signal flow graphs
		flame stability		boundary layer thickness	fla	assurament
		magnetohydrodynamic stability Weibel instability		cavitation flow Chapman-Enskog theory		easurement mechanical measurement
		Goertler instability		exhaust flow simulation	us	. flow measurement
		Taylor instability		field theory (physics)		particle image velocimetry
		flow velocity		flow deflection	RT	anemometers
		solar wind velocity	0	o flow graphs	111	annuli
	RT	barotropic flow	Ü	hydrodynamic coefficients		drag force anemometers

			6		
	drag measurement		Goertler instability		exhaust velocity
	flowmeters		Taylor instability	~	∘ flow
	fluid flow		. flow characteristics		flow deflection
	gas meters		flow stability		hydrodynamic coefficients
	hot-film anemometers		boundary layer stability		hypersonic flow
	hot-wire anemometers		flame stability		hypervelocity flow
	laser doppler velocimeters		magnetohydrodynamic stability		laser anemometers
00	measurement		Weibel instability		low speed
	multiphase flow		Goertler instability		mass flow rate
	nonintrusive measurement		Taylor instability		parallel flow
					•
	nozzles		stability		particle image velocimetry
	orifices		. dynamic stability		subsonic flow
	pitot tubes		motion stability		supersonic flow
	pneumatic probes		flow stability		transonic flow
			•		
	pressure measurement		boundary layer stability		unsteady flow
	pressure sensitive paints		flame stability		velocity distribution
	rheology		magnetohydrodynamic stability		velocity measurement
	solids flow		Weibel instability		vortex lattice method
	velocity measurement		Goertler instability		vortex precession
	Venturi tubes		Taylor instability		
	water flow	RT	aerodynamic stability	flow vis	sualization
	wind velocity	• • • • • • • • • • • • • • • • • • • •	baroclinic instability	UF	visualization of flow
	wind velocity				
			directional stability	GS	flow visualization
flow net	S		fluid flow		. numerical flow visualization
RT	equipotentials		hydrodynamic equations	RT	differential interferometry
	seepage		hydrofoil oscillations		fluid flow
	rg-				
41a			Kelvin-Helmholtz instability		hydraulic analogies
flow noi			laminar flow		particle image velocimetry
(adde	d March 2000)		lateral stability		pressure sensitive paints
	Noise produced by the flow of fluids		longitudinal stability		Schlieren photography
	r through a body; the pressure varia-		low speed stability		1 0 1 7
			. ,		shadowgraph photography
	ociated with a turbulent flow field.		Orr-Sommerfeld equations		water tunnel tests
GS	elastic waves		rotary stability		wind tunnel models
	. sound waves		steady flow		
	noise (sound)		•	flowmet	ters
			Strouhal number		
	flow noise		supersonic diffusers	GS	measuring instruments
	aerodynamic noise		systems stability		. flowmeters
	blade slap noise		turbulent flow		gas meters
	propeller noise				hot-wire flowmeters
			unsteady flow		
	screech tones		viscous fluids		rheometers
RT	aeroacoustics		Von Karman equation	RT	electrical measurement
	ducted flow		vortex breakdown		flow measurement
	Ffowcs Williams-Hawkings equation				
			vortex filaments		flow regulators
	nozzle flow		vortices		fluid flow
	pipe flow		vorticity		fuel gages
	underwater acoustics		vortionly		hot-wire anemometers
	underwater acoustics				
		flow the	PORV		mechanical measurement
flow patt	erns				orifices
	erns flow distribution	GS	flow theory		
		GS	flow theory . mixing length flow theory		pitot tubes
USE			flow theory		pitot tubes pressure gages
USE flow rate	flow distribution	GS	flow theory . mixing length flow theory aerodynamics		pitot tubes pressure gages pressure measurement
USE flow rate		GS	flow theory . mixing length flow theory aerodynamics boundary layer equations		pitot tubes pressure gages
USE flow rate	flow distribution	GS	flow theory . mixing length flow theory aerodynamics boundary layer equations continuum mechanics		pitot tubes pressure gages pressure measurement sonic anemometers
USE flow rate USE	flow distribution	GS	flow theory . mixing length flow theory aerodynamics boundary layer equations continuum mechanics convection-diffusion equation		pitot tubes pressure gages pressure measurement sonic anemometers speed indicators
USE  flow rate USE  flow reg	flow distribution flow velocity ulators	GS	flow theory . mixing length flow theory aerodynamics boundary layer equations continuum mechanics		pitot tubes pressure gages pressure measurement sonic anemometers speed indicators turbine instruments
USE  flow rate USE  flow reg	flow distribution flow velocity ulators control equipment	GS	flow theory . mixing length flow theory aerodynamics boundary layer equations continuum mechanics convection-diffusion equation dislocations (materials)		pitot tubes pressure gages pressure measurement sonic anemometers speed indicators
USE  flow rate USE  flow reg GS	flow distribution  flow velocity  ulators  control equipment . regulators	GS	flow theory . mixing length flow theory aerodynamics boundary layer equations continuum mechanics convection-diffusion equation dislocations (materials) fluid flow		pitot tubes pressure gages pressure measurement sonic anemometers speed indicators turbine instruments
USE  flow rate USE  flow reg GS	flow distribution flow velocity ulators control equipment	GS	flow theory . mixing length flow theory aerodynamics boundary layer equations continuum mechanics convection-diffusion equation dislocations (materials) fluid flow fluid mechanics		pitot tubes pressure gages pressure measurement sonic anemometers speed indicators turbine instruments velocity measurement Venturi tubes
USE flow rate USE flow reg GS	flow distribution  flow velocity  ulators control equipment . regulators flow regulators	GS	flow theory . mixing length flow theory aerodynamics boundary layer equations continuum mechanics convection-diffusion equation dislocations (materials) fluid flow fluid mechanics hydrodynamic equations		pitot tubes pressure gages pressure measurement sonic anemometers speed indicators turbine instruments velocity measurement
flow rate USE flow reg GS	flow distribution  flow velocity  ulators control equipment . regulators flow regulators fuel flow regulators	GS	flow theory . mixing length flow theory aerodynamics boundary layer equations continuum mechanics convection-diffusion equation dislocations (materials) fluid flow fluid mechanics	FLOY	pitot tubes pressure gages pressure measurement sonic anemometers speed indicators turbine instruments velocity measurement Venturi tubes
USE flow rate USE flow reg GS	flow distribution  flow velocity  ulators control equipment . regulators . · flow regulators . · fuel flow regulators flowmeters	GS	flow theory . mixing length flow theory aerodynamics boundary layer equations continuum mechanics convection-diffusion equation dislocations (materials) fluid flow fluid mechanics hydrodynamic equations	FLOX	pitot tubes pressure gages pressure measurement sonic anemometers speed indicators turbine instruments velocity measurement Venturi tubes vortex precession
USE flow rate USE flow reg GS	flow distribution  flow velocity  ulators control equipment . regulators flow regulators fuel flow regulators flowmeters oxygen regulators	GS	flow theory . mixing length flow theory aerodynamics boundary layer equations continuum mechanics convection-diffusion equation dislocations (materials) fluid flow fluid mechanics hydrodynamic equations hydrodynamics Lighthill method	UF	pitot tubes pressure gages pressure measurement sonic anemometers speed indicators turbine instruments velocity measurement Venturi tubes vortex precession
USE flow rate USE flow reg GS	flow distribution  flow velocity  ulators control equipment . regulators . · flow regulators . · fuel flow regulators flowmeters	GS	flow theory . mixing length flow theory aerodynamics boundary layer equations continuum mechanics convection-diffusion equation dislocations (materials) fluid flow fluid mechanics hydrodynamic equations hydrodynamics Lighthill method mass flow		pitot tubes pressure gages pressure measurement sonic anemometers speed indicators turbine instruments velocity measurement Venturi tubes vortex precession
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USE flow rate USE flow reg GS  RT flow res GS  flow sep USE flow stal UF GS	flow distribution  flow velocity  ulators control equipment . regulators flow regulators fuel flow regulators flowmeters oxygen regulators pressure regulators  istance friction . flow resistance friction drag aerodynamic drag viscous drag eddy viscosity high resistance low resistance skin friction viscosity aration boundary layer separation separated flow  boility hydrodynamic stability dynamic characteristics . dynamic stability motion stability flow stability boundary layer stability flow stability flame stability flame stability flame stability	flow ve DEF flow of emerge passes rate. UF GS	flow theory . mixing length flow theory aerodynamics boundary layer equations continuum mechanics convection-diffusion equation dislocations (materials) fluid flow fluid mechanics hydrodynamic equations hydrodynamic equations hydrodynamics Lighthill method mass flow Navier-Stokes equation Orr-Sommerfeld equations panel method (fluid dynamics) pneumatics rheology solids flow theories  locity The volume per time unit given to the gasses or other fluid substances which from an orifice, pump, turbine, or along a conduit or channel. Used for flow  flow rate dynamic characteristics . flow velocity solar wind velocity rates (per time) . flow velocity solar wind velocity velocity solar wind velocity Biot-Savart law choked flow	Fitsatco USE  fluctuati USE  fluctuat RT  flue gas DEF furnace. GS	pitot tubes pressure gages pressure measurement sonic anemometers speed indicators turbine instruments velocity measurement Venturi tubes vortex precession  fluorine-liquid oxygen liquids . cryogenic fluids . FLOX oxidizers . rocket oxidizers . recket oxidizers liquid oxygen liquid oxygen liquid oxygen  fluorine liquid oxygen  fluorine liquid oxygen  m Fleet Satellite Communication System  fon variations tion theory homogeneous turbulence squeezed states (quantum theory) statistical mechanics theories ses Gaseous combustion products from a gases . exhaust gases . flue gases
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desulfurizing . . . . rarefied gas dynamics . conical flow electric power plants . . . hydrodynamics . convective flow . . . . elastohydrodynamics . . Rayleigh-Benard convection pollution control . . . . electrohydrodynamics . Benard cells scrubbers . . . . magnetohydrodynamics . . buoyancy-driven flow . . . rotons . core flow fluence . . . vortex shedding . corner flow RT health physics RT continuity equation . counterflow ionizing radiation convection . critical flow radiation counters ∞ dynamics . cross flow Eyring theory . free flow fluerics fluid management . fuel flow GS fluidics flux vector splitting . . propellant transfer fluerics gas-solid interactions . gas flow fluid amplifiers geophysical fluids . . air flow fluid switching elements Glimm method . . . air currents fluidic circuits ∞ hydraulics . . . . jet streams (meteorology) hydraulic analogies hydromechanics . . . . meridional flow kinetics . . . . vertical air currents flues Magnus effect ocean dynamics
panel method (fluid dynamics)
piston theory
primitive equations
quasi-steady states . . continuum flow chimneys . . cooling flows (astrophysics) draft (gas flow) . . equilibrium flow ducts . . . frozen equilibrium flow exhaust systems . . . shifting equilibrium flow . . free molecular flow flue gases science . . Knudsen flow slamming stagnation point . . molecular flow fluid amplification . . . slip flow . . . transition flow USE fluid amplifiers steady state streamlining . . nonequilibrium flow fluid amplifiers thermohydraulics . fluid amplification . . pipe flow turbulence . head (fluid mechanics) fluid jet amplifiers unsteady state GS amplifiers . . head flow vortex filaments . pressure heads . fluid amplifiers . . jet amplifiers fluid filled shells . helical flow hypersonic flow RT amplification DEF Shells of revolution containing a gas or automatic control valves . hypervelocity flow liquid. boundary layer control incompressible flow shells (structural forms) GS Coanda effect Stokes flow . fluid filled shells convergent nozzles . internal flow . liquid filled shells . . cavity flow fluerics hydrodynamic ram effect fluidic circuits . . channel flow propellant tanks ... open channel flow fluidics reinforced shells hydraulic equipment . . ducted flow shell stability pneumatic equipment . Knudsen flow ∞ storage pressure recovery . . inlet flow tanks (containers) . . nozzle flow turbulent flow ∞ vessels turbulent iets . . pipe flow . inviscid flow wall jets fluid films fluid films . . stagnation flow GS . isothermal flow . jet flow fluid boundaries squeeze films GS boundaries RT ∞ films . . air jets . . jet mixing flow . fluid boundaries gas bearings . . gas-solid interfaces liquid-solid interfaces . . peripheral jet flow . . supersonic jet flow . . iet boundaries liquid-liquid interfaces fluid filters . . liquid-solid interfaces . . liquid-vapor interfaces mass filters particulate filters . laminar flow UF . . Blasius flow . . Hartmann flow interfaces GS separators . fluid boundaries . stratified flow fluid filters . liquid flow
. . open channel flow . . gas-solid interfaces . air filters . jet boundaries . liquid-liquid interfaces RT centrifuges concentrators . water flow low density flow liquid-solid interfaces ∞ filters . magnetohydrodynamic flow . liquid-vapor interfaces filtration backward facing steps fluidized bed processors . mass flow boundary layers . multiphase flow cavity flow sizing screens . . two phase flow free boundaries . nonNewtonian flow heat transfer fluid flow . 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 . adiabatic flow . parallel flow axial flow . wedge flow fluid dynamics . axisymmetric flow . . pipe flow cascades (fluid dynamics) . . annular flow . . three dimensional flow GS mechanics (physics) Karman-Bodewadt flow ... Karman-Bodewadt flow . fluid mechanics barotropic flow ... secondary flow . . fluid dynamics base flow . plastic flow ... computational fluid dynamics Beltrami flow . . Tresca flow . potential flow . . . gas dynamics blood flow . capillary flow . . equipotentials . . . . aerodynamics . . . . aerothermodynamics cascade flow . radial flow . reacting flow . . combustible flow . . . . . hypersonics . choked flow . . . . . rotor aerodynamics . coaxial flow . compressible flow
. Ringleb flow . . . . supersonics . recirculative fluid flow . . . . unsteady aerodynamics . reversed flow ... interactional aerodynamics . . transonic flow . shear flow

. single-phase flow	thermohydraulics	continuum mechanics
. small perturbation flow	ultrasonic cleaning	diffusivity
. solids flow	vortices	∞ dynamics
	wing flow method tests	flat plates
. steady flow	wing now method tests	
Couette flow	n tatalana.	flow theory
Hartmann flow	fluid injection	fluidics
Ringleb flow	GS injection	∞ hydraulics
•	. fluid injection	hydrodynamic equations
. steam flow	gas injection	incompressibility
. subcritical flow	liquid injection	kinetics
. subsonic flow		
. supercritical flow	deep well injection (wastes)	Maxwell fluids
	water injection	micropolar fluids
. supersonic flow	RT channel flow	∞ science
supersonic jet flow	fuel injection	statics
. turbulent flow	inlet flow	supercritical fluids
cavitation flow	laminar mixing	the state of the s
supercavitating flow		thermodynamics
. two dimensional flow	nozzle flow	
	secondary injection	fluid power
Couette flow		RT compressible fluids
Ringleb flow	fluid jet amplifiers	fluid pressure
. uniform flow	USE fluid amplifiers	fluidic circuits
Blasius flow		
. unsteady flow	jet amplifiers	fluidics
		hydraulic control
oscillating flow	fluid jets	hydraulic equipment
. viscous flow	GS fluid jets	∞ hydraulics
boundary layer flow	. air jets	hydrodynamics
reattached flow	. free jets	, ,
secondary flow	•	incompressible fluids
•	. gas jets	pneumatic control
separated flow	. hydraulic jets	pneumatic equipment
boundary layer separation	. vapor jets	pneumatics
Couette flow	RT jet amplifiers	∞ power
Karman-Bodewadt flow	jet flow	·
Stokes flow		∞ pressure drop
	jet mixing flow	working fluids
. wall flow	jet streams (meteorology)	
RT acoustic streaming	∞ jets	fluid pressure
annular ducts	plasma jets	GS pressure
Bernoulli theorem	pidoma joto	
boundary layers	fluid logic	. fluid pressure
	fluid logic	water pressure
canals	RT computer design	RT beta factor
Cartan space	fluidic circuits	fluid power
chemical engineering	fluidics	fluidics
circulation		
	∞ logic	∞ fluids
coaxial nozzles	logic circuits	hydraulic fluids
∞ conductivity		
convection currents	fluid management	fluid rotor gyroscopes
∞ currents	DEF The isolation and separation of liquids	GS gyroscopes
dimensional analysis	from gas in a storage vessel which operates in a	0, 1
		. rotary gyroscopes
dimensionless numbers	reduced or zero gravity environment using liquid	fluid rotor gyroscopes
		RT flotation
drag reduction	acquisition devices such as those used in the	
drag reduction duct geometry	Space Shuttle RCS tankage.	
duct geometry	Space Shuttle RCS tankage.	gimbals
duct geometry expulsion	Space Shuttle RCS tankage. RT cryogenic fluid storage	gimbals
duct geometry expulsion ∞ flow	Space Shuttle RCS tankage. RT cryogenic fluid storage cryogenic fluids	gimbals fluid shifts (biology)
duct geometry expulsion ∞ flow flow distortion	Space Shuttle RCS tankage.  RT cryogenic fluid storage cryogenic fluids cryogenic rocket propellants	gimbals  fluid shifts (biology)  (added August 2004)
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transmission fluids ible fluid. Airblast loading and response, acous-... barium fluorides working fluids tic interaction, aeroelasticity, and hydroelasticity boron fluorides comprise its major divisions. chlorine fluorides fluid transpiration GS fluid-solid interactions compound A USE transpiration . . . cryolite . gas-solid interactions . . gas-metal interactions deuterium fluorides fluidic circuits gas-solid interfaces . . . difluorides GS circuits ∞ interactions .... calcium fluorides fluidic circuits liquid-solid interfaces . . . . . fluorspar flip-flops . . . hydrofluoric acid surface reactions fluerics . . . metal fluorides fluid amplifiers fluorescence aluminum fluorides fluid logic DEF Emission of light or other radiant en-. . . . beryllium fluorides fluid power fluid switching elements ergy as a result of and only during absorption of . cadmium fluorides radiation of a different wavelength from some . . . . calcium fluorides fluidics other source. Used for fluorescent emission. . fluorspar fly by tube control fluorescent emission . . . . cesium fluorides microfluidic devices GS emission . chromium fluorides . light emission . . . . cobalt fluorides fluidics . . luminescence copper fluorides fluidics GS ... fluorescence lanthanum fluorides fluerics . . . . laser induced fluorescence lithium fluorides RT amplification ... phosphorescence ... magnesium fluorides ∞ control . . . resonance fluorescence nickel fluorides fluid amplifiers fluid flow ... x ray fluorescence ... plutonium fluorides electromagnetic absorption protactinium fluorides fluid logic extinction sodium fluorides fluid mechanics Mossbauer effect strontium fluorides fluid power phosphors thorium fluorides fluid pressure fluid switching elements photoexcitation tungsten fluorides photoluminescence . uranium fluorides fluidic circuits nlasma radiation . . . . zinc fluorides hydraulic analogies rhodamine . zirconium fluorides hydraulic control temperature sensitive paints nitrogen fluorides internal flow triboluminescence nitryl fluorides ∞ logic . . . oxyfluorides microfluidic devices fluorescent emission oxygen fluorides pneumatic circuits USE fluorescence ... ozone fluoride pneumatic control ... perchloryl fluorides pneumatic equipment fluorides . . . polyvinyl fluoride pneumatics GS halogen compounds . . . sulfur fluorides . fluorine compounds . . . . sulfur hexafluoride fluidized bed processors . . fluorides . . technetium fluorides beds (process engineering) antimony fluorides RT excimer lasers chemical reactors . . . barium fluorides fluid filters boron fluorides fluorination furnaces . . . chlorine fluorides chemical reactions GS separators compound A . halogenation . . . cryolite fluorination deuterium fluorides defluorination (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN . . . difluorides . . . . calcium fluorides fluorine . . . . . fluorspar GS chemical elements RT anisotropic fluids binary fluids body fluids hydrofluoric acid . halogens . . . metal fluorides . . fluorine aluminum fluorides cerebrospinal fluid ... fluorine isotopes . . . . beryllium fluorides compressible fluids liquid fluorine cadmium fluorides conducting fluids RT FLOX cryogenic fluids . . . . calcium fluorides oxidizers ferrofluids . fluorspar . . . . cesium fluorides fluorine compounds fluid flow GS halogen compounds fluid pressure chromium fluorides . fluorine compounds cobalt fluorides gases . . fluorides gyroscope fluids copper fluorides lanthanum fluorides . . . antimony fluorides high temperature fluids hydraulic fluids lithium fluorides barium fluorides ideal fluids magnesium fluorides boron fluorides incompressible fluids nickel fluorides chlorine fluorides plutonium fluorides compound A liquids magnetorheological fluids protactinium fluorides . . . cryolite Maxwell fluids sodium fluorides deuterium fluorides strontium fluorides . . . difluorides micropolar fluids Newtonian fluids thorium fluorides . . . . calcium fluorides tungsten fluorides . . fluorspar nonequilibrium flow nonNewtonian fluids uranium fluorides . . . hydrofluoric acid rheology rotating fluids serums . . . . zinc fluorides . . . metal fluorides zirconium fluorides aluminum fluorides . . . nitrogen fluorides .... beryllium fluorides siphoning solids nitryl fluorides . . . . cadmium fluorides oxyfluorides .... calcium fluorides oxygen fluorides supercritical fluids . . . . . fluorspar ozone fluoride superfluidity . . . . cesium fluorides transmission fluids perchloryl fluorides chromium fluorides polyvinyl fluoride . . . . cobalt fluorides viscous fluids weightless fluids sulfur fluorides copper fluorides . sulfur hexafluoride . . . . lanthanum fluorides working fluids technetium fluorides lithium fluorides . . . . magnesium fluorides fluid-solid interactions . halides . . fluorides . . . . nickel fluorides The interactions of a rigid or elastic

. . . antimony fluorides

. . . . plutonium fluorides

structure with an incompressible or compress-

protactinium fluorides	fluoropolymers	halon
sodium fluorides	polytetrafluoroethylene	
strontium fluorides	teflon (trademark)	fluorohydrocarbons
thorium fluorides	KEL-F	GS halogen compounds
tungsten fluorides	polyvinyl fluoride	. fluorine compounds
uranium fluorides	perfluoroalkane	fluoro compounds
zinc fluorides	perfluoroguanidine	fluorine organic compounds
zirconium fluorides	RT ∞ chemical compounds	fluorohydrocarbons
nitrogen fluorides		carbon tetrafluoride
nitryl fluorides	fluorine-liquid oxygen	chlorofluoromethane
oxyfluorides	USE FLOX	polytetrafluoroethylene
oxygen fluorides		teflon (trademark)
ozone fluoride	fluorite	organic compounds
perchloryl fluorides	GS calcium compounds	. fluorine organic compounds
polyvinyl fluoride	. fluorite	fluorohydrocarbons
sulfur fluorides	halogen compounds	carbon tetrafluoride
sulfur hexafluoride	. fluorine compounds	chlorofluoromethane
technetium fluorides	fluorite	polytetrafluoroethylene
fluorite		teflon (trademark)
fluoro compounds	minerals	. hydrocarbons
cryolite	. fluorite	fluorohydrocarbons
difluoro compounds		carbon tetrafluoride
perfluoroalkane	fluoro compounds	chlorofluoromethane
	GS halogen compounds	polytetrafluoroethylene
polytetrafluoroethylene	. fluorine compounds	
teflon (trademark)	fluoro compounds	teflon (trademark)
fluorine organic compounds	cryolite	RT fluorocarbons
fluoroamines	difluoro compounds	freon
nitrofluoramines	perfluoroalkane	refrigerants
trifluoroamine oxide	polytetrafluoroethylene	Viton rubber (trademark)
fluorocarbons	teflon (trademark)	
fluorohydrocarbons	fluorine organic compounds	fluoromica
carbon tetrafluoride	fluoroamines	USE fluorosilicates
chlorofluoromethane	nitrofluoramines	mica
polytetrafluoroethylene		
teflon (trademark)	trifluoroamine oxide	fluorophlogopite
fluoropolymers	fluorocarbons	GS minerals
polytetrafluoroethylene	fluorohydrocarbons	. mica
teflon (trademark)	carbon tetrafluoride	fluorophlogopite
	chlorofluoromethane	· · ··································
KEL-F	polytetrafluoroethylene	fluoroplastics
polyvinyl fluoride	teflon (trademark)	USE fluoropolymers
perfluoroalkane	fluoropolymers	OOL IIIIOIOpolymers
perfluoroguanidine	polytetrafluoroethylene	fluoropolymers
fluorosilicates		
	teflon (trademark)	DEE A family of polymore based on fluoring
tetrafluorohydrazine	teflon (trademark)	DEF A family of polymers based on fluorine
	KEL-F `	replacement of hydrogen atoms in hydrocarbon
tetrafluorohydrazine	KEL-F polyvinyl fluoride	replacement of hydrogen atoms in hydrocarbon molecules. Compounds are characterized by
tetrafluorohydrazine $\mbox{RT} \ \infty$ chemical compounds	KEL-F polyvinyl fluoride perfluoroalkane	replacement of hydrogen atoms in hydrocarbon molecules. Compounds are characterized by chemical inertness, thermal stability, and low
tetrafluorohydrazine RT ∞ chemical compounds halocarbons	KEL-F polyvinyl fluoride perfluoroalkane perfluoroguanidine	replacement of hydrogen atoms in hydrocarbon molecules. Compounds are characterized by chemical inertness, thermal stability, and low coefficient of friction. Used for fluoroplastics.
tetrafluorohydrazine RT ∞ chemical compounds halocarbons  fluorine isotopes	KEL-F polyvinyl fluoride perfluoroalkane perfluoroguanidine fluorosilicates	replacement of hydrogen atoms in hydrocarbon molecules. Compounds are characterized by chemical inertness, thermal stability, and low coefficient of friction. Used for fluoroplastics.  UF fluoroplastics
tetrafluorohydrazine RT ∞ chemical compounds halocarbons  fluorine isotopes GS chemical elements	KEL-F polyvinyl fluoride perfluoroalkane perfluoroguanidine fluorosilicates tetrafluorohydrazine	replacement of hydrogen atoms in hydrocarbon molecules. Compounds are characterized by chemical inertness, thermal stability, and low coefficient of friction. Used for fluoroplastics.
tetrafluorohydrazine RT ∞ chemical compounds halocarbons  fluorine isotopes GS chemical elements halogens	KEL-Fpolyvinyl fluorideperfluoroalkaneperfluoroguanidinefluorosilicatestetrafluorohydrazine RT ∞ chemical compounds	replacement of hydrogen atoms in hydrocarbon molecules. Compounds are characterized by chemical inertness, thermal stability, and low coefficient of friction. Used for fluoroplastics.  UF fluoroplastics
tetrafluorohydrazine RT ∞ chemical compounds halocarbons  fluorine isotopes GS chemical elements . halogens fluorine	KEL-F polyvinyl fluoride perfluoroalkane perfluoroguanidine fluorosilicates tetrafluorohydrazine	replacement of hydrogen atoms in hydrocarbon molecules. Compounds are characterized by chemical inertness, thermal stability, and low coefficient of friction. Used for fluoroplastics.  UF fluoroplastics GS halogen compounds
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tetrafluorohydrazine RT ∞ chemical compounds halocarbons  fluorine isotopes GS chemical elements . halogens fluorine fluorine isotopes . nuclides	KEL-Fpolyvinyl fluorideperfluoroalkaneperfluoroguanidinefluorosilicatestetrafluorohydrazine RT ∞ chemical compounds	replacement of hydrogen atoms in hydrocarbon molecules. Compounds are characterized by chemical inertness, thermal stability, and low coefficient of friction. Used for fluoroplastics.  UF fluoroplastics GS halogen compounds . fluorine compounds . fluoro compounds fluoro compounds fluorine organic compounds
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Section   Sect	waste water	UF electron flux	meteoroid concentration
Section   Sect		neutron flux	Onsager phenomenological coefficien
## GS   rates (per time)   power spectra   protons   radiation   r	fluting		· . · · · · · · · · · · · · · · · · · ·
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vibration simulators     GS rates (per time)     DEF cryogenic DC generators.       vibration tests     flux density     RT magnetic coils magnetic fields       vibrational stress     . current density     superconducting magnets       wing oscillations     . photon density     superconducting magnets	unsteady aerodynamics		
vibration tests     .flux density     RT magnetic coils magnetic fields       vibrational stress     . current density     magnetic fields       wing oscillations     . photon density     superconducting magnets		GS rates (per time)	, 0
vibrational stress current density magnetic fields superconducting magnets superconducting magnets superconductivity.		. flux density	
wing oscillations photon density superconducting magnets			
wing oscillations photon density			superconducting magnets
	wing oscillations		
	flutter englysis		•
flutter analysis irradiance			flux accombined
GS structural analysis illuminance flux quantization			
. dynamic structural analysis solar constant RT ∞ flux			
flutter analysis lumens magnetic flux	flutter analysis	lumens	magnetic flux

superconductors (materials)

flux transfer events

(added July 1989)

magnetic properties

. magnetoactivity

. flux transfer events

aeronomy

geomagnetism

interplanetary magnetic fields

lines of force magnetic effects

magnetic field configurations

magnetic field reconnection

magnetic fields magnetic flux magnetopause

magnetosphere-ionosphere coupling

space plasmas

flux vector splitting

DEF The splitting of the nonlinear flux vectors of the conservation law form of the inviscid gasdynamic equations into subvectors by similarity transformations so that each subvector has associated with it a specified eigenvalue

GS analysis (mathematics)

numerical analysis

. . flux vector splitting

splitting

flux vector splitting

computation

computational fluid dynamics

eigenvalues

finite difference theory

fluid dynamics

flux difference splitting

panel method (fluid dynamics)

vector analysis

vectors (mathematics)

vortex lattice method

fluxes

RT brazing

 $\infty$  flux

limestone soldering welding

fluxmeters

USE magnetic measurement measuring instruments

fly ash

DFF Fine particulate, essentially noncombustible refuse, carried in a gas stream from a furnace.

GS ashes

fly ash

RT air pollution

coal

combustion products electric power plants

electrostatic precipitators

particulates pollution control

fly by light control

(added December 1992) FBL control

flight control

fly by light control

aircraft control fiber optics optical fibers

fly by tube control

RT

DEF A fluidic flight control for aircraft in which a hydraulic control signal link connects the pilot's controls to the control surface actuators.

flight control GS

. fly by tube control

RT aircraft control ∞ control

fluidic circuits

hydraulic equipment

servoamplifiers

fly by wire control

electric aircraft GS flight control

fly by wire control

aircraft control

∞ control

ground based control spacecraft control

flyby missions

DEF Interplanetary missions in which the vehicle passes close to the target planet but does not impact it or go into orbit around it.

GS space missions

flyby missions

. . Giotto mission

. . Grand Tours

Mariner Jupiter-Saturn flyby

. . . Mariner Jupiter-Uranus flyby

Voyager 1977 mission

. . Comet Nucleus Tour

. . Comet Rendezvous Asteroid Flyby Mission

. . Deep Impact Mission

. . Mariner Venus-Mercury 1973

. Mariner-Mercury 1973
. Near Earth Asteroid Rendezvous Mission

. . New Horizons mission

. Stardust Mission

asteroid missions

Clementine spacecraft Deep Space 1 Mission

Galileo project

Galileo spacecraft

interplanetary flight long duration space flight

lunar flight

Mariner Mark 2 Spacecraft

Mariner program

∞ missions

outer planets explorers

space flight swingby technique

TOPS (spacecraft)

Vega project

Voyager 1 spacecraft

Voyager 2 spacecraft

flying

USE flight

Flying Bedstead aircraft

ÚSE flying platforms

Flying Crane helicopter

USE H-17 helicopter

flying ejection seats

onboard equipment

. aircraft equipment . . ejection seats

. flying ejection seats

safety devices . ejection seats

. flying ejection seats

seats . ejection seats

flying ejection seats

abort apparatus

aircraft safety bailout

cockpits

ejectors

escape capsules flight safety

jet engines protection

flying in formation

(added October 2001)

USE formation flying

flying personnel

personnel

. flying personnel

. . astronauts . . . orbital workers . . cosmonauts

. . flight crews

. . . spacecrews

.. pilots (personnel)

. . . aircraft pilots

. test pilots flight fitness

flight training navigators

flying platform stability

aerodynamic stability flying platforms

flying platforms

Flying Bedstead aircraft flying platform stability
V/STOL aircraft

. vertical takeoff aircraft

. flying platforms

RT ∞ aircraft
ground effect machines

jet aircraft

observation aircraft

∞ platforms

reconnaissance aircraft

research aircraft

VZ-8 aircraft

flying qualities

USE flight characteristics

flying spot scanners

optical equipment

. optical scanners . . flying spot scanners

scanners . optical scanners

. flying spot scanners

display devices electron guns

electron optics

image tubes oscilloscopes

phototubes picture tubes

television equipment video equipment

flying wing aircraft USE tailless aircraft

flying wing configurations (added April 2001)

USE blended-wing-body configurations GS

flywheels

rotating bodies . rotors

. flywheels

wheels flywheels

balancing

counter-rotating wheels energy storage

engine parts mechanical engineering

reaction wheels

FM (modulation) USE frequency modulation

FM/PM (modulation)

Phase modulation of a carrier by subcarrier(s) which is (are) frequency modulated by information.

GS coding

. signal encoding

. . frequency modulation ... FM/PM (modulation)

. . phase modulation FM/PM (modulation)

modulation

. frequency modulation . FM/PM (modulation)

. phase modulation . FM/PM (modulation)

RT	data transmission		. dispersions		diffusion theory
			colloids		equations
foaming	1		aerosols	-	ionized gases
	beneficiation		f <b>og</b>		stochastic processes
111	flotation				Stochastic processes
			liquid-gas mixtures	falalia a	
	foams		aerosols	folding	
	metal foams		tog	UF	crimping
∞	separation		particles	RT	bending
	surface properties		. aerosols		binding
	swirling		fog		curl (materials)
	wetting	RT	anvil clouds		distortion
	_		aviation meteorology		flexing
foams			cirrocumulus clouds		kinking
UF	cellular materials (non biological)		cirrostratus clouds		9
	foams			Folding	Fin aircraft rocket vehicle
ao	. metal foams		clouds (meteorology)		FFAR rocket vehicle
RT			drop size		
пі	aerogels		haze	GS	rocket vehicles
	bubbles		haze detection		Folding Fin aircraft rocket vehicle
	colloids		hydrometeors	HI ∘	o aircraft
	explosion suppression		mist		solid propellant rocket engines
	fire extinguishers		precipitation (meteorology)		
	fire fighting		smog	folding	structures
	foaming		smoke	UF	Rogallo wings
	low density materials		steam		telescoping structures
00	materials		stratus clouds	GS	folding structures
	polyurethane foam				. sailwings
	styrofoam (trademark)		visibility	RT	antennas
	Styroroam (trademark)	for dia	marrael	111	balloons
facal pla	and arraya	fog dis			
	nne arrays	GS	weather modification		ballutes
USE	focal plane devices		fog dispersal		expandable structures
		RT	aerosols		furlable antennas
focal pla	ane devices		climatology		inflatable space structures
DEF	Radiation sensitive devices positioned		cloud physics		inflatable structures
at the fo	ocal area of electromagnetic detectors.		clouds (meteorology)		paddles
Used for	r focal plane arrays.		dispersing		parachutes
UF	focal plane arrays		dispersions		paragliders
	arrays		mist		parawings
	charge coupled devices				rotary wings
	infrared detectors		precipitation (meteorology)		
		fail back	ulaaa		space erectable structures
	linear arrays	foil bea			spacecraft structures
	mosaics	GS	bearings	0	o structures
	photodiodes		foil bearings		variable geometry structures
	quantum well infrared photodetectors	RT	gas bearings		variable sweep wings
			journal bearings		
foci				folds (g	jeology)
	foci	∞ foils		DEF	Curves or bends of a planar structure
	foci . plasma focus	∞ <b>foils</b> SN	(USE OF A MORE SPECIFIC TERM IS		Curves or bends of a planar structur rock strata, bedding planes, foliation, or
GS			RECOMMENDED-CONSULT THE TERMS	such as	rock strata, bedding planes, foliation, o
GS	. plasma focus centers	SN	RECOMMENDED-CONSULT THE TERMS LISTED BELOW)	such as cleavag	rock strata, bedding planes, foliation, c e. Folds are usually a product of defor
GS	. plasma focus centers focusing		RECOMMENDED-CONSULT THE TERMS LISTED BELOW) airfoils	such as cleavag mation,	rock strata, bedding planes, foliation, c e. Folds are usually a product of defor although their definition is descriptiv
GS	. plasma focus centers focusing geometry	SN	RECOMMENDED-CONSULT THE TERMS LISTED BELOW) airfoils foils (materials)	such as cleavag mation, and not	rock strata, bedding planes, foliation, ce. Folds are usually a product of defor although their definition is descriptive genetic and may include primary structure.
GS RT ∞	. plasma focus centers focusing geometry loci	SN	RECOMMENDED-CONSULT THE TERMS LISTED BELOW) airfoils	such as cleavag mation, and not tures. U	rock strata, bedding planes, foliation, ce. Folds are usually a product of defor although their definition is descriptiv genetic and may include primary structed for nappes.
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GS RT ∞	. plasma focus centers focusing geometry loci optics	SN RT	PECOMMENDED-CONSULT THE TERMS LISTED BELOW) airfoils foils (materials) hydrofoils	such as cleavag mation, and not tures. U UF	rock strata, bedding planes, foliation, ce. Folds are usually a product of defor although their definition is descriptive genetic and may include primary structure sed for nappes.  **nappes** Earth crust fissures (geology)**
GS RT ∞	. plasma focus centers focusing geometry loci optics points (mathematics) resolution	SN RT foils (m	RECOMMENDED-CONSULT THE TERMS LISTED BELOW) airfoils foils (materials) hydrofoils multilayer insulation	such as cleavag mation, and not tures. U UF	rock strata, bedding planes, foliation, ce. Folds are usually a product of defor although their definition is descriptiv genetic and may include primary structure sed for nappes.  nappes Earth crust fissures (geology) geological faults
GS RT ∞ ∞	. plasma focus centers focusing geometry loci optics points (mathematics) resolution	SN RT foils (m	PECOMMENDED-CONSULT THE TERMS LISTED BELOW) airfoils foils (materials) hydrofoils multilayer insulation materials) foils (materials)	such as cleavag mation, and not tures. U UF	rock strata, bedding planes, foliation, ce. Folds are usually a product of defor although their definition is descriptive genetic and may include primary structure sed for nappes.  **nappes** Earth crust fissures (geology)**
GS RT ∞ ∞	. plasma focus centers focusing geometry loci optics points (mathematics) resolution	SN RT <b>foils (m</b> GS	PECOMMENDED-CONSULT THE TERMS LISTED BELOW) airfoils foils (materials) hydrofoils multilayer insulation materials) foils (materials) . metal foils	such as cleavag mation, and not tures. U UF RT	rock strata, bedding planes, foliation, ce. Folds are usually a product of defor although their definition is descriptiv genetic and may include primary structure sed for nappes.  nappes Earth crust fissures (geology) geological faults
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GS RT ∞ ∞ focusin GS	. plasma focus centers focusing geometry loci coptics points (mathematics) resolution  g focusing . defocusing . prefocusing . self focusing accommodation adjusting astigmatism cameras distance foci Fresnel lenses geometrical optics gravitational lenses image contrast image enhancement laser cutting laser drilling lenses panoramic cameras solar reflectors steering stigmatism thermal lensing	Fokker USE Fokker USE Fokker USE Fokker USE	RECOMMENDED-CONSULT THE TERMS LISTED BELOW) airfoils foils (materials) hydrofoils multilayer insulation materials) foils (materials) . metal foils airfoils foils foils hydrofoils multilayer insulation thin plates multilayer insulation thin plates  aircraft Fokker aircraft . F-27 aircraft . F-28 transport aircraft  F-28 aircraft F-27 aircraft F-28 transport aircraft Friendship aircraft Friendship aircraft F-27 aircraft F-27 aircraft	such as cleavag mation, and not tures. U UF RT  foliage RT	rock strata, bedding planes, foliation, ce. Folds are usually a product of deforalthough their definition is descriptive genetic and may include primary struct sed for nappes.  **nappes** Earth crust fissures (geology) geological faults Great Basin (US)  **layers outcrops rocks seamounts strata stratification  **brown wave effect canopies (vegetation) deciduous trees defoliants green wave effect herbicides leaves locusts plants (botany) timber vigor  id  **vitamin M** acids amino acids . folic acid . carboxylic acids
GS RT ∞ ∞ focusin GS	. plasma focus centers focusing geometry loci optics points (mathematics) resolution  g focusing . defocusing . prefocusing . self focusing accommodation adjusting astigmatism cameras distance foci Fresnel lenses geometrical optics gravitational lenses image contrast image enhancement laser cutting laser drilling lenses panoramic cameras solar reflectors steering stigmatism thermal lensing vignetting	Fokker USE Fokker USE Fokker USE Fokker USE	RECOMMENDED-CONSULT THE TERMS LISTED BELOW) airfoils foils (materials) hydrofoils multilayer insulation  naterials) foils (materials) . metal foils airfoils foils foils (materials) . metal foils airfoils multilayer insulation thin plates  aircraft Fokker aircraft . F-27 aircraft . F-28 transport aircraft  F-27 aircraft F-28 aircraft F-28 transport aircraft	such as cleavag mation, and not tures. U UF RT  foliage RT	rock strata, bedding planes, foliation, ce. Folds are usually a product of deforalthough their definition is descriptive genetic and may include primary structures and the strate of the strategy of the stra
GS RT «	. plasma focus centers focusing geometry loci optics points (mathematics) resolution  g focusing . defocusing . prefocusing . self focusing accommodation adjusting astigmatism cameras distance foci Fresnel lenses geometrical optics gravitational lenses image contrast image enhancement laser cutting laser drilling lenses panoramic cameras solar reflectors steering stigmatism thermal lensing vignetting	Fokker USE Fokker USE Fokker USE Fokker USE	RECOMMENDED-CONSULT THE TERMS LISTED BELOW) airfoils foils (materials) hydrofoils multilayer insulation materials) foils (materials) . metal foils airfoils foils foils hydrofoils multilayer insulation thin plates multilayer insulation thin plates  aircraft Fokker aircraft . F-27 aircraft . F-28 transport aircraft  F-28 aircraft F-27 aircraft F-28 transport aircraft Friendship aircraft Friendship aircraft F-27 aircraft F-27 aircraft	such as cleavag mation, and not tures. U UF RT  foliage RT	rock strata, bedding planes, foliation, ce. Folds are usually a product of deforalthough their definition is descriptive genetic and may include primary struct sed for nappes.  **nappes** Earth crust fissures (geology) geological faults Great Basin (US)  **layers outcrops rocks seamounts strata stratification  **brown wave effect canopies (vegetation) deciduous trees defoliants green wave effect herbicides leaves locusts plants (botany) timber vigor  id  **vitamin M** acids amino acids . folic acid . carboxylic acids
GS RT    focusing GS RT	. plasma focus centers focusing geometry loci optics points (mathematics) resolution  g focusing . defocusing . self focusing accommodation adjusting astigmatism cameras distance foci Fresnel lenses geometrical optics gravitational lenses image enhancement laser cutting laser drilling lenses panoramic cameras solar reflectors steering stigmatism thermal lensing vignetting	Fokker USE Fokker USE Fokker USE Fokker	RECOMMENDED-CONSULT THE TERMS LISTED BELOW) airfoils foils (materials) hydrofoils multilayer insulation  naterials) foils (materials) . metal foils airfoils foils foils multilayer insulation thin plates multilayer insulation thin plates  aircraft Fokker aircraft . F-27 aircraft . F-28 transport aircraft bond testers adhesion tests  F 27 aircraft F-28 transport aircraft F-28 transport aircraft F-28 transport aircraft F-28 transport aircraft F-27 aircraft F-28 transport aircraft F-28 transport aircraft F-29 aircraft F-19 aircraft F-29 aircraft F-29 aircraft F-29 aircraft F-29 aircraft F-29 aircraft F-29 aircraft F-19 aircraft F-29 aircraft	such as cleavag mation, and not tures. U UF RT  foliage RT	rock strata, bedding planes, foliation, ce. Folds are usually a product of defor although their definition is descriptive genetic and may include primary struct sed for nappes.  **nappes** **Earth crust** fissures (geology) geological faults* Great Basin (US)* **olayers* outcrops** rocks** seamounts** strata** stratification**  brown wave effect canopies (vegetation) deciduous trees defoliants* green wave effect herbicides leaves* locusts* plants (botany) timber vigor  id  **vitamin M** acids** **amino acids** **. folic acid** **ifolic acid** nitrogen compounds**
GS RT «	. plasma focus centers focusing geometry loci optics points (mathematics) resolution  g focusing . defocusing . self focusing accommodation adjusting astigmatism cameras distance foci Fresnel lenses geometrical optics gravitational lenses image enhancement laser cutting laser drilling lenses panoramic cameras solar reflectors steering stigmatism thermal lensing vignetting	Fokker USE Fokker USE Fokker USE Fokker	RECOMMENDED-CONSULT THE TERMS LISTED BELOW) airfoils foils (materials) hydrofoils multilayer insulation  naterials) foils (materials) . metal foils airfoils foils foils hydrofoils multilayer insulation thin plates multilayer insulation thin plates  aircraft Fokker aircraft . F-27 aircraft . F-28 transport aircraft bond testers adhesion tests  F 27 aircraft F-28 aircraft F-28 transport aircraft F-28 transport aircraft F-28 transport aircraft F-28 ircraft F-28 ircraft F-28 ircraft F-28 ircraft F-28 ircraft F-19 ircraft F-28 ircraft F-29 ircraft	such as cleavag mation, and not tures. U UF RT  foliage RT	rock strata, bedding planes, foliation, ce. Folds are usually a product of deforalthough their definition is descriptive genetic and may include primary structures and for nappes.  **Rath crust fissures (geology) geological faults Great Basin (US)** layers outcrops rocks seamounts strata stratification  **Brown wave effect canopies (vegetation) deciduous trees defoliants green wave effect herbicides leaves locusts plants (botany) timber vigor  **Idd vitamin M acids . ** folic acid introgen compounds . ** folic acid intoicing acid intoicing acid intoicing acid intoicing acid introgen compounds . ** folic acid intoicing acid intoi
GS RT    focusing GS  RT   foetuses USE fog	. plasma focus centers focusing geometry loci optics points (mathematics) resolution  g focusing . defocusing . prefocusing . self focusing accommodation adjusting astigmatism cameras distance foci Fresnel lenses geometrical optics gravitational lenses image contrast image enhancement laser cutting laser drilling lenses panoramic cameras solar reflectors steering stigmatism thermal lensing vignetting  fetuses	Fokker USE Fokker USE Fokker USE Fokker	RECOMMENDED-CONSULT THE TERMS LISTED BELOW) airfoils foils (materials) hydrofoils multilayer insulation  naterials) foils (materials) . metal foils airfoils foils foils multilayer insulation hydrofoils multilayer insulation thin plates multilayer insulation thin plates  aircraft Fokker aircraft . F-27 aircraft . F-28 transport aircraft  F-27 aircraft F-27 aircraft F-28 aircraft F-27 aircraft F-28 transport aircraft F-28 transport aircraft F-28 transport aircraft F-28 ircraft F-28 ircraft F-28 ircraft F-28 ircraft F-19 ircraft F-19 ircraft F-29 i	such as cleavag mation, and not tures. U UF RT  foliage RT	rock strata, bedding planes, foliation, ce. Folds are usually a product of deformal although their definition is descriptive genetic and may include primary struct sed for nappes.  **nappes** **Earth crust** fissures (geology) geological faults Great Basin (US) **layers* outcrops rocks seamounts strata stratification  **brown wave effect canopies (vegetation) deciduous trees defoliants green wave effect herbicides leaves locusts plants (botany) timber vigor  id  **vitamin M** acids . **amino acids . **folic acid organic compounds folic acid organic compounds
GS RT    focusing GS  RT   foetuses USE fog DEF	. plasma focus centers focusing geometry loci optics points (mathematics) resolution  g focusing . defocusing . self focusing accommodation adjusting astigmatism cameras distance foci Fresnel lenses geometrical optics gravitational lenses image contrast image enhancement laser cutting laser drilling lenses panoramic cameras solar reflectors steering stigmatism thermal lensing vignetting  fetuses  A loose term applied to visible aerosols	Fokker USE Fokker USE Fokker USE Fokker	RECOMMENDED-CONSULT THE TERMS LISTED BELOW) airfoils foils (materials) hydrofoils multilayer insulation  foils (materials) foils (materials) . metal foils airfoils foils foils (materials) . metal foils airfoils multilayer insulation thin plates multilayer insulation thin plates  aircraft Fokker aircraft . F-27 aircraft . F-28 transport aircraft  bond testers adhesion tests  F 27 aircraft F-28 transport aircraft F-28 transport aircraft F-28 transport aircraft F-29 aircraft F-21 aircraft F-29 aircraft F	such as cleavag mation, and not tures. U UF RT  foliage RT	rock strata, bedding planes, foliation, ce. Folds are usually a product of defor although their definition is descriptive genetic and may include primary struct sed for nappes.  **nappes** **Earth crust** fissures (geology) geological faults Great Basin (US) **layers* outcrops rocks seamounts strata stratification  **brown wave effect canopies (vegetation) deciduous trees defoliants green wave effect herbicides leaves locusts plants (botany) timber vigor  id  **vitamin M** acids . amino acids . folic acid . carboxylic acids . folic acid organic compounds . folic acid organic compounds . amino acids . amino acids . folic acid organic compounds . amino acids . amino acids
GS RT    focusing GS  RT  foetuses USE fog DEF in which	. plasma focus centers focusing geometry loci optics points (mathematics) resolution  g focusing . defocusing . self focusing accommodation adjusting astigmatism cameras distance foci Fresnel lenses geometrical optics gravitational lenses image contrast image enhancement laser drilling lenses panoramic cameras solar reflectors steering stigmatism thermal lensing vignetting  fetuses  A loose term applied to visible aerosols the dispersed phase is liquid. Formation	Fokker USE Fokker USE Fokker USE Fokker USE Fokker USE	RECOMMENDED-CONSULT THE TERMS LISTED BELOW) airfoils foils (materials) hydrofoils multilayer insulation  naterials) foils (materials) . metal foils airfoils foils foils hydrofoils multilayer insulation thin plates  aircraft Fokker aircraft . F-27 aircraft . F-28 transport aircraft bond testers adhesion tests  F 27 aircraft F-28 transport aircraft F-28 transport aircraft F-27 aircraft F-28 transport aircraft F-27 aircraft F-28 ircraft F-27 aircraft F-28 ircraft F-28 ircraft F-29 aircraft	such as cleavag mation, and not tures. U UF RT  foliage RT	rock strata, bedding planes, foliation, ce. Folds are usually a product of defor although their definition is descriptive genetic and may include primary struct sed for nappes.  **nappes** **Earth crust** fissures (geology) geological faults **Great Basin (US)** layers outcrops rocks seamounts strata stratification  **brown wave effect canopies (vegetation) deciduous trees defoliants green wave effect herbicides leaves locusts plants (botany) timber vigor  id  **vitamin M** acids **amino acids **. folic acid organic compounds **, folic acid organic acids **amino acids **amino acids **amino acids **olic acid organic compounds **amino acids
GS RT    focusing GS  RT  fog DEF in which by condo	. plasma focus centers focusing geometry loci coptics points (mathematics) resolution  g focusing . defocusing . prefocusing . self focusing accommodation adjusting astigmatism cameras distance foci Fresnel lenses geometrical optics gravitational lenses image contrast image enhancement laser cutting laser drilling lenses panoramic cameras solar reflectors steering stigmatism thermal lensing vignetting  fetuses  A loose term applied to visible aerosols the dispersed phase is liquid. Formation ensation is usually implied. In meteorol-	Fokker USE Fokker USE Fokker USE Fokker	RECOMMENDED-CONSULT THE TERMS LISTED BELOW) airfoils foils (materials) hydrofoils multilayer insulation  materials) foils (materials) . metal foils airfoils foils foils (materials) . metal foils multilayer insulation thin plates multilayer insulation thin plates  micraft Fokker aircraft . F-27 aircraft . F-28 transport aircraft  bond testers adhesion tests  F 27 aircraft F-28 aircraft F-28 aircraft F-28 transport aircraft F-27 aircraft F-28 ircraft F-27 aircraft  F-28 ircraft F-28 ircraft F-19 ircraft F-27 aircraft F-28 ircraft F-28 ircraft F-29 ircraft F-19 ircraft F-29	such as cleavag mation, and not tures. U UF RT  foliage RT	rock strata, bedding planes, foliation, ce. Folds are usually a product of deforalthough their definition is descriptive genetic and may include primary struct sed for nappes.  **nappes** Earth crust fissures (geology) geological faults Great Basin (US)** **alyers** outcrops** rocks** seamounts** strata** stratification  brown wave effect canopies (vegetation) deciduous trees defoliants green wave effect herbicides leaves locusts plants (botany) timber vigor  id **vitamin M** acids** . **arbication**  **idic acid** . **folic acid** . **folic acid** folic acid** organic compounds* . **amino acids* . **folic acid* . **carboxylic acids*
GS RT    focusing GS  RT   focusing GS   BT  focusing GS  PD  Focusing GS  RT  focusing GS  RT	. plasma focus centers focusing geometry loci optics points (mathematics) resolution  g focusing . defocusing . self focusing accommodation adjusting astigmatism cameras distance foci Fresnel lenses geometrical optics gravitational lenses image contrast image enhancement laser drilling lenses panoramic cameras solar reflectors steering stigmatism thermal lensing vignetting  fetuses  A loose term applied to visible aerosols the dispersed phase is liquid. Formation	Fokker USE Fokker USE Fokker USE Fokker USE Fokker USE	RECOMMENDED-CONSULT THE TERMS LISTED BELOW) airfoils foils (materials) hydrofoils multilayer insulation  naterials) foils (materials) . metal foils airfoils foils foils hydrofoils multilayer insulation thin plates  aircraft Fokker aircraft . F-27 aircraft . F-28 transport aircraft bond testers adhesion tests  F 27 aircraft F-28 transport aircraft F-28 transport aircraft F-27 aircraft F-28 transport aircraft F-27 aircraft F-28 ircraft F-27 aircraft F-28 ircraft F-28 ircraft F-29 aircraft	such as cleavag mation, and not tures. U UF RT  foliage RT	rock strata, bedding planes, foliation, ce. Folds are usually a product of defor although their definition is descriptive genetic and may include primary struct sed for nappes.  **nappes** **Earth crust** fissures (geology) geological faults **Great Basin (US)** layers outcrops rocks seamounts strata stratification  **brown wave effect canopies (vegetation) deciduous trees defoliants green wave effect herbicides leaves locusts plants (botany) timber vigor  id  **vitamin M** acids **amino acids **. folic acid organic compounds **, folic acid organic acids **amino acids **amino acids **amino acids **olic acid organic compounds **amino acids

	heterocyclic compounds		consumables (spacecrew supplies)		angular distribution
	folic acid		∞ food		charge distribution
	vitamins		∞ production		energy distribution influence coefficient
	folic acid		space flight feeding space rations		lift drag ratio
food			space rations		loads (forces)
SN	(USE OF A MORE SPECIFIC TERM IS	footpri	ints		mass distribution
014	RECOMMENDEDCONSULT THE TERMS		Ground patterns or contours of an		moment distribution
БТ	LISTED BELOW)		ical or microwave nature that are predict-		scale effect
RT	alfalfa		nd measurable.		stress concentration
	barley	RT	aircraft noise		stress distribution
	beverages broths		antenna radiation patterns		stress intensity factors
	caloric requirements		mathematical models		sweep effect
	canning				thrust distribution
	carbohydrates		den bands		transverse loads
	citrus trees	GS	energy bands		wing loading
	consumables (spacecrew supplies)	ОТ	. forbidden bands		
	corn	RT	band structure of solids	force fie	
	decontamination		∞ bands	USE	field theory (physics)
	dehydrated food		electron energy free electrons		
	diets		lattice vibrations		ector recorders
	digesting		wave equations		Instrumentation for recording force dis-
	distributing		wave equations		ents in a variety of disciplines.
	Earth resources	forbide	den transitions	GS	measuring instruments . force vector recorders
	eating	RT			
	eggs		Franck-Condon principle		recording instruments
	fats		quantum theory	DT.	. force vector recorders ∞ instruments
	fishes		selection rules (nuclear physics)	nı s	∞ instruments
	flour (food)		∞ solid state physics	forced	convection
	food chain		∞ transition		convection
	food production (in space)		wave functions	ao	. forced convection
	frozen foods			RT	blowing
	fruits		sh decreases		convective heat transfer
	gelatins	DEF	The observed decreases in cosmic ray		free convection
	hay	activity	in the Earth's atmosphere about a day		heat transfer
	leguminous plants		solar flare. Used for Forbush effect.		laminar flow
	milk	UF	Forbush effect		Prandtl number
	millet	RT			Rayleigh-Benard convection
	nutrition		∞ effects		Stanton number
	oats		magnetic storms		
	orchards		solar flares	forced (	oscillation
	peppers potatoes		solar furnaces	USE	forced vibration
	preserving		solar storms		
	proteins	Forbus	sh effect		vibration
	provisioning		Forbush decreases		An oscillation of a system in which the
	rations	OOL	1 Olbusii ucolcuses		se is imposed by the excitation. If the
	services	∞ force			on is periodic and continuing, the oscilla-
	soybeans	SN	(USE OF A MORE SPECIFIC TERM IS		steady state. Used for forced oscillation
	space flight feeding		RECOMMENDEDCONSULT THE TERMS		ced vibratory motion equations.
	space rations	DEE	LISTED BELOW) The cause of the acceleration of mate-	UF	forced oscillation
	spinach	DEF	dies measured by the rate of change of	GS	forced vibratory motion equations vibration
	starches		ntum produced on a free body. Used for	do	. forced vibration
	sugar cane	repulsi		RT	flutter
	sugars	UF	repulsion	111	free vibration
	synthetic food	RT	,		random vibration
	tomatoes		aerodynamic forces		self excitation
	vegetables		attraction		self induced vibration
	vineyards		centrifugal force		oon maadda vibration
	vitamins		centripetal force	forced	vibratory motion equations
	yeast		electric field strength	USE	equations
			high impulse		forced vibration
food ch			inertia		
	The scheme of feeding relationships		kinetics	force-fi	ree magnetic fields
	ic levels which unites member species		lines of force	GS	magnetic fields
	ogical community.		loads (forces)		. force-free magnetic fields
RT	animals		Lorentz force	RT	magnetic field configurations
	ecosystems		newton		magnetic flux
0	∍food plants (botany)		nonconservative forces		magnetohydrodynamic stability
	plants (botany)		null zones		solar flares
food in	toko		ponderomotive forces		solar magnetic field
RT	fasting		pressure	favaavm	_
пі	space flight feeding		pulling	forearn	
	synthetic food		pushing	GS	anatomy
	Synthetic 100d		thrust		. limbs (anatomy)
food nr	ocessing		thrust measurement		arm (anatomy)
	The transformation of foodstuffs into		torque		forearm appendages
	or easy packaging, greater palatability,		torsion Van der Waals forces		. arm (anatomy)
	torage, etc.		weight (mass)		forearm
GS	food processing		veight (mass) zero force curves		Oleanii
45	. canning		2010 10106 Gui VE3	foreboo	dies
	. preserving	force (	distribution	GS	forebodies
RT	dehydrated food	UF		ao	. noses (forebodies)
	frozen foods	0.	normal force distribution		nose cones
0	processing	GS	distribution (property)		ablative nose cones
	. •		. force distribution		rocket nose cones
food pr	oduction (in space)	RT	aerodynamic coefficients	RT	afterbodies
	closed ecological systems		aerodynamic loads	•••	aircraft structures
			,		

# forecasting

	bluff bodies		International Hydrological Decade		hulging
	blunt bodies		International Hydrological Decade		bulging casting
	blunt leading edges	foreign i	rade		coining
∞	bows	USE	international trade		cold working
	centerbodies		,		heat treatment
	cylindrical bodies		sciences law (jurisprudence)		hot isostatic pressing
	hammerhead configuration leading edges	USL	law (julispludelice)		hot pressing hot working
	sharp leading edges	forest fi	re detection		piercing
	onalp loading dages	GS	detection		pressing (forming)
			. forest fire detection		rheocasting
forecas	ting	RT	aerial photography	~	rolling
UF	forecasts	~	detectors haze detection		squeeze casting
GS	predictions		infrared detectors		stamping
	. forecasting		infrared instruments	forks	
	technological forecasting Delphi method (forecasting)		infrared photography	RT	conveyors
	pattern method (forecasting)		infrared radiometers		hooks
	probe method (forecasting)		infrared scanners	form	
	profile method (forecasting)		measuring instruments observation	form USE	shapes
	weather forecasting		radiometers	OOL	Shapes
	long range weather forecasting		satellite-borne photography	form fa	ctors
	nowcasting numerical weather forecasting		surveillance	RT	approximation
	statistical weather forecasting				coupling coefficients
RT ∝	analyzing	forest fi			functional analysis
	budgeting	GS	fires . forest fires		harmonic analysis rectifiers
	confidence limits	RT	air pollution		scattering coefficients
	correlation		ashes		series (mathematics)
	curve fitting		biomass burning		square waves
	estimates estimating		combustion		transducers
	evaluation		fire prevention	~	variable
	expectation		firebreaks		waveforms
	extrapolation		flames forests		x ray scattering
	hindcasting		smoke	form pe	rception
	management		wastes	USĖ	space perception
	management methods management planning				
	mathematical models		nanagement	formald	
	maximum likelihood estimates	GS	management	GS	aldehydes . formaldehyde
	mission planning		. resources management forest management	RT	phenol formaldehyde
	noise prediction (aircraft)		reforestation	• • • •	priorier remainderly de
	operations research	RT	conservation	formalis	sm
	planning		Earth resources	RT	computer programming
	probability theory project planning		forests		dynamic programming
00	project planning		land use		hardware description languages
	regression analysis		regional planning	~	linear programming logic
	regression coefficients		timber inventory		nonlinear programming
	reliability	forests			parameterization
	reserves	UF	lumbering areas		programming languages
	risk	GS	resources	£	
	scheduling statistical analysis		. Earth resources	format RT	computer programming
	statistical distributions		forests	ΠI	computer programming documents
	systems engineering	RT	Amazon region (South America)		editing
	time series analysis		canopies (vegetation)		frames (data processing)
	trends		clearings (openings)		printouts
			conifers		records
			conservation		syntax
forecast			deciduous trees		texts
USE	forecasting		defoliants defoliation	formate	es.
			deforestation	GS	formates
forehea	a		firebreaks		. chloroformate
GS	anatomy		forest fires		. nitroformates
ao	. face (anatomy)		forest management	RT	formic acid
	forehead		herbicides		formyl ions
RT	head (anatomy)		logging (industry)	formati	on
	skull		plants (botany) reforestation	SN	(USE OF A MORE SPECIFIC TERM IS
			regional planning		RECOMMENDED CONSULT THE TERMS LISTED BELOW)
			silviculture	RT	formations
foreign			timber identification		growth
RT	aircraft hazards bodies		timber inventory		nucleation
~	injuries		timber vigor		stratigraphy
	meteorites		timberline	formati	an fluing
			trees (plants) wilderness		on flying ed October 2001)
			macmoo		Coordinated and closely synchronized
foreign	policy	forging			two or more aircraft or spacecraft in a
GŠ	policies	ÜF	metal forging	relatively	y close spatial configuration.
	foreign policy	GS	forming techniques		flying in formation
	international relations		. forging	GS	positioning
	international cooperation		metal working	RT	. formation flying aerobatics
RT ~	outer space treaty budgets	RT	. forging ausforming	ΠI	aerobatics air navigation
~	European space programs	111	billets		aircraft maneuvers

∞ flight		
	magnetic forming	cellulose
flight control	. metal drawing	Fortisan (trademark)
orbital maneuvers	. metal spinning	fabrics
satellite constellations	hydrospinning	. Fortisan (trademark)
satellite control	. pressing (forming)	fibers
satellite networks	. blanking (cutting)	. synthetic fibers
space navigation	coining	Fortisan (trademark)
spacecraft control	hot pressing	organic compounds
spacecraft guidance	stamping	. carbohydrates
spacecraft maneuvers	hot isostatic pressing	polysaccharides
stationkeeping	resin transfer molding	cellulose
	. roll forming	Fortisan (trademark)
formation heat		
	RT ∞ blanking	RT parachute fabrics
USE heat of formation	cutting	
	deposition	FORTRAN
formations	electromagnetic hammers	UF FAB (programming language)
RT contacts (geology)	hot machining	GS languages
∞ formation	laser cutting	. programming languages
fracturing	machining	FORTRAN
gas injection	· · · · · · · · · · · · · · · · · · ·	RT Cobol
	metal grinding	
geological faults	metal working	compilers
geology	spraying	computer programming
geophysics	upsetting	PL/1
Great Basin (US)	, ,	
∞ layers	forms (paper)	forward facing steps
mountains	RT blanks	(added December 1995)
outcrops	data acquisition	,
•	data acquisition	3
outliers (landforms)	to an income	boundary layer flow
paleontology	∞ formulas	separated flow
perforating	SN (USE OF A MORE SPECIFIC TERM IS	
permeability	RECOMMENDEDCONSULT THE TERMS	forward looking infrared detectors
petrology	LISTED BELOW)	USE FLIR detectors
	RT computation	002 12 40.00.0.0
porosity	formulas (mathematics)	forward coattoring
rocks	formulations	forward scattering
shatter cones	Kramers-Kronig formula	DEF The scattering of radiant energy into
soils	ů	the hemisphere of space bounded by a plane
stairsteps	formulas (mathematics)	normal to the direction of the incident radiation
stratigraphy	UF expressions (mathematics)	and lying on the side toward which the incident
terraces (landforms)	, ,	radiation was advancing; the opposite of back-
	GS mathematical logic	ward scatter.
wettability	. formulas (mathematics)	
	Bethe-Heitler formula	GS scattering
formhydroxamic acid	RT ∞ formulas	. forward scattering
GS acids	∞ mathematics	RT backscattering
. carboxylic acids		inverse scattering
formhydroxamic acid	formulations	light scattering
nitrogen compounds		nuclear scattering
. amides	∞ composition	scatter propagation
formhydroxamic acid	∞ formulas	
organic compounds	ingredients	fossil fuels
carboxylic acids	mixtures	DEF A general term for any hydrocarbons
formhydroxamic acid	parameterization	that may be used for fuel; chiefly petroleum,
	· · · · · · · · · · · · · · · · · · ·	natural gas, and coal.
•		
formic sold	stoichiometry	GS fuels
formic acid	•	GS fuels
GS acids	formyl ions	. chemical fuels
GS acids . carboxylic acids	•	. chemical fuels hydrocarbon fuels
GS acids	formyl ions	. chemical fuels hydrocarbon fuels f <b>ossil fuels</b>
GS acids . carboxylic acids	formyl ions GS ions . molecular ions	. chemical fuels hydrocarbon fuels
GS acids . carboxylic acids formic acid organic compounds	formyl ions GS ions . molecular ions formyl ions	. chemical fuels hydrocarbon fuels f <b>ossil fuels</b>
GS acids . carboxylic acids formic acid organic compounds . carboxylic acids	formyl ions GS ions . molecular ions . formyl ions . positive ions	chemical fuels  hydrocarbon fuels  fossil fuels  coal  anthracite
GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid	formyl ions GS ions . molecular ions . formyl ions . positive ions . cations	chemical fuels hydrocarbon fuels fossil fuels coal here anthracite for lighted
GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid  RT formates	formyl ions GS ions . molecular ions . formyl ions . positive ions . cations formyl ions	chemical fuels hydrocarbon fuels fossil fuels coal antracite lignite solvent refined coal
GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid	formyl ions GS ions . molecular ions . formyl ions . positive ions . cations formyl ions radicals	chemical fuels hydrocarbon fuels fossil fuels coal nathracite lignite solvent refined coal crude oil
GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid  RT formates formyl ions	formyl ions GS ions . molecular ions . formyl ions . positive ions . cations . formyl ions radicals . formyl ions	chemical fuels hydrocarbon fuels fossil fuels coal mathracite fignite solvent refined coal mathracite nathracite nathracite
GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid  RT formates	formyl ions GS ions . molecular ions . formyl ions . positive ions . cations formyl ions radicals	chemical fuels hydrocarbon fuels fossil fuels coal nathracite lignite solvent refined coal crude oil
GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid  RT formates formyl ions	formyl ions GS ions . molecular ions . formyl ions . positive ions . cations . formyl ions radicals . formyl ions	chemical fuels hydrocarbon fuels fossil fuels coal mathracite fignite solvent refined coal mathracite nathracite nathracite
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GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid  RT formates formyl ions  formica  RT laminates ∞ polymers	formyl ions GS ions . molecular ions . formyl ions . positive ions . cations . formyl ions radicals formyl ions  RT atmospheric chemistry formates formic acid	chemical fuels hydrocarbon fuels fossil fuels coal anthracite lignite crude oil natural gas peat shale oil
GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid RT formates formyl ions  formica RT laminates	formyl ions GS ions . molecular ions . formyl ions . positive ions . cations . formyl ions radicals . formyl ions  RT atmospheric chemistry formates formic acid hydroxyl radicals	chemical fuels hydrocarbon fuels fossil fuels coal anthracite lignite crude oil antaral gas peat shale oil resources
GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid  RT formates formyl ions  formica  RT laminates ∞ polymers thermosetting resins	formyl ions GS ions . molecular ions . formyl ions . positive ions . cations . formyl ions radicals . formyl ions  RT atmospheric chemistry formates formic acid hydroxyl radicals interstellar chemistry	chemical fuels hydrocarbon fuels fossil fuels coal anthracite lignite crude oil natural gas liquefied natural gas peat shale oil resources Earth resources
GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid RT formates formyl ions  formica RT laminates ∞ polymers thermosetting resins  forming techniques	formyl ions GS ions . molecular ions . formyl ions . positive ions . cations . formyl ions radicals . formyl ions  RT atmospheric chemistry formates formic acid hydroxyl radicals	chemical fuels hydrocarbon fuels fossil fuels coal anthracite lignite coal crude oil natural gas liquefied natural gas peat shale oil resources Earth resources fossil fuels
GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid RT formates formyl ions  formica RT laminates ∞ polymers thermosetting resins  forming techniques SN (TECHNIQUES OF SHAPING ITEM)	formyl ions GS ions . molecular ions . formyl ions . positive ions . cations . formyl ions radicals . formyl ions  RT atmospheric chemistry formates formic acid hydroxyl radicals interstellar chemistry interstellar matter	chemical fuels hydrocarbon fuels fossil fuels coal anthracite fighite corude oil natural gas figuels figuels coal coal coal coal coal coal coal coal
GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid  RT formates formyl ions  formica  RT laminates ∞ polymers thermosetting resins  forming techniques SN (TECHNIQUES OF SHAPING ITEM) UF metal forming	formyl ions GS ions . molecular ions . formyl ions . positive ions . cations . formyl ions radicals . formyl ions  RT atmospheric chemistry formates formic acid hydroxyl radicals interstellar chemistry	chemical fuels hydrocarbon fuels fossil fuels coal anthracite lignite coal crude oil natural gas liquefied natural gas peat shale oil resources Earth resources fossil fuels
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GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid  RT formates formyl ions  formica  RT laminates ∞ polymers thermosetting resins  forming techniques SN (TECHNIQUES OF SHAPING ITEM) UF metal forming	formyl ions GS ions . molecular ions . formyl ions . positive ions . cations . formyl ions radicals . formyl ions radicals formyl ions  RT atmospheric chemistry formates formic acid hydroxyl radicals interstellar chemistry interstellar matter	chemical fuels hydrocarbon fuels fossil fuels coal anthracite lignite curde oil natural gas liquefied natural gas peat shale oil resources Earth resources fossil fuels coal anthracite
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GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid RT formates formyl ions  formica RT laminates ∞ polymers thermosetting resins  forming techniques SN (TECHNIQUES OF SHAPING ITEM) WF metal forming GS forming techniques . casting . centrifugal casting . investment casting . propellant casting . rheocasting . sand casting . sand casting	formyl ions GS ions . molecular ions . formyl ions . positive ions . cations . formyl ions radicals . formyl ions radicals . formyl ions  RT atmospheric chemistry formates formic acid hydroxyl radicals interstellar chemistry interstellar matter  forsterite GS magnesium compounds . forsterite minerals . olivine . forsterite	chemical fuels hydrocarbon fuels fossil fuels coal anthracite lignite coal antural gas liquefied natural gas peat shale oil resources fossil fuels coal anthracite lignite coal antural gas liquefied natural gas liquefied natural gas antural gas liquefied natural gas antural gas liquefied natural gas antural gas liquefied lignite anthracite lignite anthracite anthracite lignite antural gas antural gas liquefied natural gas peat shale oil
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GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid RT formates formyl ions  formica RT laminates ∞ polymers thermosetting resins  forming techniques SN (TECHNIQUES OF SHAPING ITEM) WF metal forming GS forming techniques . casting . centrifugal casting . investment casting . propellant casting . rheocasting . sand casting . sand casting	formyl ions GS ions . molecular ions . formyl ions . positive ions . cations formyl ions radicals . formyl ions  RT atmospheric chemistry formates formic acid hydroxyl radicals interstellar chemistry interstellar matter  forsterite GS magnesium compounds . forsterite minerals . olivine . forsterite silicon compounds . silicates	chemical fuels hydrocarbon fuels fossil fuels coal anthracite lignite coal antural gas liquefied natural gas peat shale oil resources fossil fuels coal anthracite lignite coal antural gas liquefied natural gas liquefied natural gas antural gas liquefied natural gas antural gas liquefied natural gas antural gas liquefied lignite anthracite lignite anthracite anthracite lignite antural gas antural gas liquefied natural gas peat shale oil
GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid  RT formates formyl ions  formica  RT laminates ∞ polymers thermosetting resins  forming techniques  SN (TECHNIQUES OF SHAPING ITEM) UF metal forming GS forming techniques . casting . centrifugal casting . investment casting . propellant casting . rheocasting . sand casting . sand casting . squeeze casting . squeeze casting	formyl ions GS ions . molecular ions . positive ions . cations . cations . formyl ions radicals . formyl ions radicals . formyl ions  RT atmospheric chemistry formates formic acid hydroxyl radicals interstellar chemistry interstellar matter  forsterite GS magnesium compounds . forsterite minerals . olivine . forsterite silicon compounds . silicates . forsterite	chemical fuels hydrocarbon fuels fossil fuels coal anthracite lignite curde oil natural gas liquefied natural gas peat shale oil resources fossil fuels coal anthracite lignite curde oil antural gas liquefied natural gas curde oil resources fossil fuels coal anthracite lignite solvent refined coal crude oil natural gas liquefied natural gas
GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid RT formates formyl ions  formica RT laminates ∞ polymers thermosetting resins  forming techniques SN (TECHNIQUES OF SHAPING ITEM) WF metal forming GS forming techniques . casting . centrifugal casting . investment casting . propellant casting . propellant casting . sand casting . slip casting . squeeze casting . cold working	formyl ions GS ions . molecular ions . formyl ions . positive ions . cations formyl ions radicals . formyl ions  RT atmospheric chemistry formates formic acid hydroxyl radicals interstellar chemistry interstellar matter  forsterite GS magnesium compounds . forsterite minerals . olivine . forsterite silicon compounds . silicates . forsterite RT refractories	chemical fuels hydrocarbon fuels fossil fuels coal anthracite lignite cultivations liquefied natural gas peat shale oil resources fossil fuels coal anthracite lignite shale oil resources fossil fuels coal anthracite lignite solvent refined coal crude oil natural gas liquefied natural gas peat liquefied natural gas liquefied lignite
GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid RT formates formyl ions  formica RT laminates ∞ polymers thermosetting resins  forming techniques SN (TECHNIQUES OF SHAPING ITEM) WF metal forming GS forming techniques . casting . centrifugal casting . investment casting . propellant casting . rheocasting . sip casting . sip casting . sip casting . sip casting . squeeze casting . cold working . cold volling	formyl ions GS ions . molecular ions . formyl ions . positive ions . cations formyl ions radicals . formyl ions RT atmospheric chemistry formates formic acid hydroxyl radicals interstellar chemistry interstellar matter  forsterite GS magnesium compounds . forsterite minerals . olivine . forsterite silicon compounds . silicates . forsterite RT refractories  Forth (programming language)	chemical fuels hydrocarbon fuels fossil fuels coal anthracite lignite coulont refined coal crude oil natural gas liquefied natural gas peat shale oil resources Earth resources fossil fuels coal lignite customathracite liquefied natural gas
GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid RT formates formyl ions  formica RT laminates ∞ polymers thermosetting resins  forming techniques SN (TECHNIQUES OF SHAPING ITEM) WF metal forming GS forming techniques . casting . centrifugal casting . investment casting . investment casting . propellant casting . rheocasting . sand casting . squeeze casting . cold working . cold rolling . celectrohydraulic forming	formyl ions GS ions . molecular ions . positive ions . cations . cations . formyl ions radicals . formyl ions radicals . formyl ions  RT atmospheric chemistry formates formic acid hydroxyl radicals interstellar chemistry interstellar matter  forsterite GS magnesium compounds . forsterite minerals . olivine . forsterite silicon compounds . silicates . i forsterite RT refractories  Forth (programming language) (added December 1992)	chemical fuels . hydrocarbon fuels . fossil fuels . coal . anthracite . lignite . solvent refined coal . rude oil . natural gas . liquefied natural gas . peat . shale oil resources . Earth resources . fossil fuels . coal . anthracite . lignite . solvent refined coal . rude oil resources . fossil fuels . coal . anthracite . lignite . solvent refined coal . crude oil . natural gas . peat . shale oil RT carbonaceous materials underwater resources
GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid  RT formates formyl ions  formica  RT laminates ∞ polymers thermosetting resins  forming techniques  SN (TECHNIQUES OF SHAPING ITEM) UF metal forming GS forming techniques . casting . centrifugal casting . investment casting . investment casting . propellant casting . sand casting . sand casting . squeeze casting . cold working . cold rolling . electrohydraulic forming . explosive forming	formyl ions GS ions . molecular ions . positive ions . cations . cations . formyl ions radicals . formyl ions radicals . formyl ions  RT atmospheric chemistry formates formic acid hydroxyl radicals interstellar chemistry interstellar matter  forsterite GS magnesium compounds . forsterite minerals . olivine . forsterite silicon compounds . silicates . forsterite RT refractories  Forth (programming language) (added December 1992) GS languages	chemical fuels hydrocarbon fuels fossil fuels coal anthracite lignite coulont refined coal crude oil natural gas liquefied natural gas peat shale oil resources Earth resources fossil fuels coal lignite customathracite liquefied natural gas
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GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid RT formates formyl ions  formica RT laminates ∞ polymers thermosetting resins  forming techniques SN (TECHNIQUES OF SHAPING ITEM) metal forming GS forming techniques . casting . centrifugal casting . investment casting . investment casting . propellant casting . sand casting . silp casting . squeeze casting . cold working . cold rolling . explosive forming . explosive forming . electroforming . extruding	formyl ions GS ions . molecular ions . formyl ions . positive ions . cations formyl ions radicals . formyl ions  RT atmospheric chemistry formates formic acid hydroxyl radicals interstellar chemistry interstellar matter  forsterite GS magnesium compounds . forsterite minerals . olivine . forsterite silicon compounds . silicates . forsterite RT refractories  Forth (programming language) (added December 1992) GS languages . programming languages . Forth (programming language)	chemical fuels . hydrocarbon fuels . fossil fuels . coal . anthracite . lignite . solvent refined coal . rude oil . natural gas . liquefied natural gas . peat . shale oil resources . Earth resources . fossil fuels . coal . anthracite . lignite . solvent refined coal . crude oil . natural gas . peat . shale oil resources . fossil fuels . coal . anthracite . lignite . solvent refined coal . crude oil . natural gas . liquefied natural gas . peat . shale oil RT carbonaceous materials underwater resources  fossil meteorite craters USE fossils meteorite craters
GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid RT formates formyl ions  formica RT laminates ∞ polymers thermosetting resins  forming techniques SN (TECHNIQUES OF SHAPING ITEM) WF metal forming GS forming techniques . casting . centrifugal casting . investment casting . propellant casting . propellant casting . sand casting . silp casting . silp casting . silp casting . squeeze casting . cold rolling . electrohydraulic forming . electroforming . extruding . extruding . pultrusion	formyl ions GS ions . molecular ions . formyl ions . positive ions . cations formyl ions radicals . formyl ions radicals . formyl ions  RT atmospheric chemistry formates formic acid hydroxyl radicals interstellar chemistry interstellar matter  forsterite GS magnesium compounds . forsterite minerals . olivine forsterite silicon compounds . silicates forsterite RT refractories  Forth (programming language) (added December 1992) GS languages . programming languages	chemical fuels hydrocarbon fuels fossil fuels coal anthracite lignite coal anthracite lignite antural gas liquefied natural gas peat shale oil resources Earth resources lignite lignite anthracite lignite anthracite lignite anthracite lignite anthracite lignite antural gas anthracite lignite anthracite lignite anthracite lignite antural gas anthracite lignite antural gas anthracite lignite antural gas anthracite lignite antural gas anthracite anthr
GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid  RT formic acid  RT formicacid  RT laminates ∞ polymers thermosetting resins  forming techniques  SN (TECHNIQUES OF SHAPING ITEM) UF metal forming GS forming techniques . casting . centrifugal casting . investment casting . propellant casting . rheocasting . sand casting . slip casting . squeeze casting . cold working . cold rolling . electrohydraulic forming . explosive forming . putrusion . forging	formyl ions GS ions . molecular ions . positive ions . cations . cations . formyl ions radicals . formyl ions radicals . formyl ions  RT atmospheric chemistry formates formic acid hydroxyl radicals interstellar chemistry interstellar matter  forsterite GS magnesium compounds . forsterite minerals . olivine . forsterite silicon compounds . silicates . forsterite RT refractories  Forth (programming language) (added December 1992) GS languages . programming languages . Forth (programming language) RT computer programming	chemical fuels . hydrocarbon fuels . fossil fuels . coal . anthracite . lignite . solvent refined coal . rude oil . natural gas . liquefied natural gas . peat . shale oil resources . Earth resources . fossil fuels . coal . anthracite . lignite . solvent refined coal . rude oil resources . fossil fuels . coal . anthracite . lignite . solvent refined coal . crude oil . natural gas . liquefied natural gas . peat . shale oil RT carbonaceous materials underwater resources  fossil meteorite craters USE fossils meteorite craters
GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid RT formates formyl ions  formica RT laminates ∞ polymers thermosetting resins  forming techniques SN (TECHNIQUES OF SHAPING ITEM) UF metal forming GS forming techniques . casting . centrifugal casting . investment casting . propellant casting . propellant casting . sand casting . salip casting . squeeze casting . cold working . cold rolling . extruding . extruding . pultrusion . forging . hot working	formyl ions GS ions . molecular ions . formyl ions . positive ions . cations formyl ions radicals . formyl ions radicals . formyl ions  RT atmospheric chemistry formates formic acid hydroxyl radicals interstellar chemistry interstellar matter  forsterite GS magnesium compounds . forsterite minerals . olivine . forsterite silicon compounds . silicates forsterite RT refractories  Forth (programming language) (added December 1992) GS languages . programming languages . Forth (programming language) RT computer programming Fortisan (trademark)	chemical fuels hydrocarbon fuels fossil fuels coal anthracite lignite cultivativativativativativativativativativa
GS acids . carboxylic acids . formic acid organic compounds . carboxylic acids . formic acid  RT formic acid  RT formicacid  RT laminates ∞ polymers thermosetting resins  forming techniques  SN (TECHNIQUES OF SHAPING ITEM) UF metal forming GS forming techniques . casting . centrifugal casting . investment casting . propellant casting . rheocasting . sand casting . slip casting . squeeze casting . cold working . cold rolling . electrohydraulic forming . explosive forming . putrusion . forging	formyl ions GS ions . molecular ions . positive ions . cations . cations . formyl ions radicals . formyl ions radicals . formyl ions  RT atmospheric chemistry formates formic acid hydroxyl radicals interstellar chemistry interstellar matter  forsterite GS magnesium compounds . forsterite minerals . olivine . forsterite silicon compounds . silicates . forsterite RT refractories  Forth (programming language) (added December 1992) GS languages . programming languages . Forth (programming language) RT computer programming	chemical fuels . hydrocarbon fuels . fossil fuels . coal . anthracite . lignite . solvent refined coal . rude oil . natural gas . liquefied natural gas . peat . shale oil resources . Earth resources . fossil fuels . coal . anthracite . lignite . solvent refined coal . rude oil resources . fossil fuels . coal . anthracite . lignite . solvent refined coal . crude oil . natural gas . liquefied natural gas . peat . shale oil RT carbonaceous materials underwater resources  fossil meteorite craters USE fossils meteorite craters

RT archaeology wavelet analysis .. FR-1 satellite paleobiology paleontology Fourier law fractals particle tracks Highly irregular geometrical figures GS laws radioactive age determination such as snowflakes or the boundary of a cloud Fourier law whose capacity dimension is not an integer. The thermal conductivity capacity dimension characterizes the measuring Foster theory of the number of different size superimposed network analysis Fourier series reactance squares needed to cover the geometric shape. GS analysis (mathematics) By the use of differing size boxes, one is able to resonance . calculus ∞ theories determine the capacity dimension. . . series (mathematics) GS dimensions Fourier series . fractals fouling . Fourier analysis geometry GS fouling . . Fourier series fractals antifouling . real variables RT ∞ applications of mathematics biofilms . . series (mathematics) coordinates contamination . Fourier series exponents corrosion RT Gibbs phenomenon half spaces deposition mathematics ice formation Fourier transformation ratios plugging GS analysis (mathematics) set theory retarding . functional analysis ∞ space . . integral transformations strange attractors foundations ... Fourier transformation UF bases (foundations) . . . fast Fourier transformations fractionation structural foundations functions (mathematics) GS fractionation GS foundations . Fourier transformation chemical fractionation . pile foundations . fast Fourier transformations hydrocracking basements transformations (mathematics) RT refining  $\infty$  bases . integral transformations retort processing caissons . . Fourier transformation ∞ separation concrete structures fast Fourier transformations solvent refined coal excavation BBGKY hierarchy geotechnical engineering Gabor transformation fractions overconsolidation holographic spectroscopy maximum entropy method (EXCLUDES MATHEMATICAL CONCEPTS) ∞ pad SN pavements Walsh function RT ∞ components skirts wavelet analysis fines structural members particle size distribution ∞ structures ratios Fourier-Bessel transformations substructures GS analysis (mathematics) supports fractography calculus underground structures GS imagery Fourier-Bessel transformations . photography . functional analysis foundries fractography . . integral transformations GS industrial plants RT brittleness Fourier-Bessel transformations foundries crack closure . real variables RT furnaces Fourier-Bessel transformations crack geometry ∞ metallurgy crack propagation ductility functions (mathematics) molds Fourier-Bessel transformations Elber equation transformations (mathematics) four body problem fatigue (materials) integral transformations celestial mechanics fractures (materials) . Fourier-Bessel transformations many body problem differential equations ∞ metallurgy orbits series (mathematics) perturbation fracture mechanics ∞ problems fault mechanics UF four-wave mixing three body problem Mohr circles mechanics (physics) (added April 1992) GS conjugation Fourier analysis
DEF The representation of physical or mathematical data by the use of the Fourier . solid mechanics phase conjugation four-wave mixing . fracture mechanics RT bend tests atom optics series of Fourier integral. burst tests coherent light collimation analysis (mathematics) caustics (optics) Fourier analysis computational mechanics laser beams . Fourier series crack bridging light amplifiers RT autocorrelation crack closure light beams data compression crack initiation nonlinear optics differential equations crack opening displacement optical bistability divergence crack propagation phase coherence exponential functions Elber equation signal mixing frequency distribution finite element method wave interaction harmonic analysis fracturing harmonic excitation Griffith crack harmonic functions hole geometry (mechanics) The central part of the retina, which isoparametric finite elements harmonic generations contains a high concentration of the color senharmonic oscillation J integral sitive receptors known as cones. harmonics micromechanics GS anatomy plane strain information theory . sense organs residual strength kurtosis . . eye (anatomy) linear transformations rock mechanics . . . retina rupturing measure and integration . . fovea operational calculus short cracks RT Saccadic eye movements periodic functions soil mechanics periodic variations strain distribution real variables FR-1 satellite stress distribution stress intensity factors simple harmonic motion artificial satellites GS

. French satellites

stress tensors

time series analysis

time temperature parameter fracturing spectroscopic analysis fragments spectroscopy fracture resistance penetration USE fracture strength Sabot projectiles Fraunhofer lines DEF Dark lines in the absorption spectrum shrapnel fracture strength spalling of solar radiation due to absorption by gases in DEF The normal stress at the beginning of terminal ballistics the outer portions of the sun and in the Earth's fracture. Fracture strength is calculated from the atmosphere. load at the beginning of fracture during a tension fragments GS spectra test and the original cross-sectional area of the chips . radiation spectra specimen. Used for fracture resistance and fracdebris . . absorption spectra ture toughness. ... Fraunhofer lines ejecta UF fracture resistance fracturing . . electromagnetic spectra fracture toughness fragmentation . . . line spectra GS mechanical properties shrapnel .... Fraunhofer lines fracture strength . spectral bands . absorption spectra . flexural strength frame photography bend tests imagery Fraunhofer lines brittle materials . photography absorption spectroscopy brittleness frame photography optogalvanic spectroscopy black and white photography burst tests solar spectra carbon-carbon composites framing cameras high speed cameras crack closure Fraunhofer region crack initiation USE far fields crack opening displacement frames crack propagation GS frames Fredholm equations creep rupture strength . airframes Fredholm operators ductile-brittle transition chassis analysis (mathematics) undercarriages ductility . functional analysis earthquake resistance carriages . . integral equations springs (elastic) .. Fredholm equations eutectic composites ∞ structures RT ∞ equations hardness J integral struts ill-posed problems (mathematics) load carrying capacity residual strength supports Pomeranchuk theorem trusses Fredholm operators ∞ resistance frames (data processing) USE Fredholm equations retirement for cause data management operators (mathematics) ∞ strength data processing toughness free atmosphere format yield strength DEF That portion of the Earth's atmoimage processing sphere, above the planetary boundary layer, in fracture toughness which the effect of the Earth's surface friction on framing cameras USE fracture strength GS optical equipment the air is negligible, and in which the air is usually treated (dynamically) as an ideal fluid. The base of the free atmosphere is usually taken as the geostrophic wind level. fractures (materials) . cameras . . high speed cameras GS fractures (materials) . . framing cameras . cracks photographic equipment Earth atmosphere . . crack tips GS free atmosphere cameras . . edge cracks . . high speed cameras RT biosphere . . microcracks . . framing cameras . . short cracks middle atmosphere frame photography . surface cracks primitive Earth atmosphere rotating mirrors RT crack opening displacement free boundaries damage boundaries France GS deformation free boundaries nations failure GS fluid boundaries . France fractography . French Guiana interfaces ∞ materials . . Guadeloupe iet flow jet mixing flow fracturing Martinique Andorra jet streams (meteorology) GS fracturing English Channel liquid surfaces . cracking (fracturing) liquid-liquid interfaces . stress corrosion cracking Europe liquid-vapor interfaces crustal fractures French space program Pyrenees Mountains (Europe) brittleness chipping Rhone Delta (France) free convection crack closure UF natural convection crack opening displacement francium thermal convection crack propagation GS chemical elements GS convection cutting . alkali metals . free convection flaking . francium . . Rayleigh-Benard convection formations . . Benard cells metals fracture mechanics . alkali metals RT convection currents fragmentation . . francium convective flow convective heat transfer fragments metal fatigue Franck-Condon principle forced convection perforating Born-Oppenheimer approximation color centers Marangoni convection separation spalling conduction bands porous boundary layer control solar convection (astronomy) splitting electron transitions forbidden transitions stellar convection stress functions optical transition temperature structural failure thermosiphons fragmentation Fraunhofer line discriminators turbulent flow shattering circuits

discriminators

absorption spectra

measuring instruments

luminescence

. Fraunhofer line discriminators

acoustic streaming

breaking

comminution

bursts chipping

RT

free electron lasers

DEF Multifrequency lasers utilizing optical

radiation amplification by a beam of free electrons passing through a vacuum in a transverse periodic magnetic field, as opposed to conven-

tional lasers in which the oscillating electrons such as a jet discharging into the open. communication are bound to atoms and molecules and have a GS fluid jets high power lasers specific wavelength. free jets laser beams stimulated emission devices jet boundaries satellite communication . lasers iet flow space communication . free electron lasers ∞ iets diffraction radiation free-space optical interconnects wiggler magnets free molecular flow (added June 1998) GS fluid flow FSOI (integrated optics) . gas flow optical interconnects free electrons Electrons which are not bound to an . free molecular flow free-space optical interconnects RT continuum flow integrated optics atom. kinetic theory interprocessor communication GS charge carriers . free electrons Knudsen flow optical computers particles molecular beams optical switching rarefied gas dynamics . charged particles optoelectronic devices . . energetic particles rarefied gases photonics . . . electrons slip flow transition flow . . . . free electrons freeze drying . corpuscular radiation GS drying . . energetic particles free oscillations . freeze drying USE free vibration dehydrated food . . . electrons dehydration . . free electrons free radicals . elementary particles freezing Atoms or groups of atoms broken . . fermions frozen foods away from stable compounds by application of external energy, and, although containing un-. . . leptons preservina . . . . electrons paired electrons, remaining free for transitory or freezing . free electrons Brillouin zones longer periods. GS phase transformations GS radicals . freezing conduction electrons free radicals . . vibrational freezing electron avalanche . hydroxyl radicals . zone melting electron density (concentration) RT amino radical RT antifreezes electron gas atoms bay ice forbidden bands carbenes cloud glaciation plasma frequencies ions cold traps recombination coefficient negative ions cooling cryogenic cooling crystallization oxygen ions free energy trivalent ions thermodynamic properties GS vinyl radical . free energy freeze drying . Gibbs free energy frost free stream effects chemical energy ice formation USE free flow ∞ energy ice nuclei low temperature energy of formation free streams enthalpy melting USF free flow Gibbs-Helmholtz equations preserving internal energy pressure ice free vibration refrigerating DEF Oscillation of a system in the absence molecular energy levels sea ice of external forces. Used for free oscillations. thermal energy solidification free oscillations solidified gases thermodynamics GS vibration free vibration freezing points 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 USE free and unhampered motion of a body along a cargo self excitation Keplerian trajectory, in the force of gravity is self induced vibration counterbalanced by the force of inertia. freight costs vibration mode GS costs air drop operations . freight costs ballistic trajectories free wing aircraft cargo falling spheres RT aerodynamics freighters parachute descent ∞ aircraft transportation parafoils aircraft design weightlessness control surfaces freighters free flight freight costs Freedom Fighter aircraft harbors Unconstrained or unassisted flight, as 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 ∞ flight free-piston engines aliders DEF Engines in which the pistons are not French Guiana gliding connected to the crank. hang gliders GS GS nations engines . piston engines . French Guiana free flight test apparatus free-piston engines RT flight tests AC generators linear alternators Caribbean region RT South America ∞ test equipment pistons French satellites free flow spacecraft power supplies UF free stream effects artificial satellites Stirling engines free streams . French satellites GS free-space optical communication . . D-1 satellite fluid flow

(added June 1998)

telecommunication

. . optical communication

... free-space optical

. communication

. . D-2 satellites

.. FR-1 satellite

. . EOLE satellites

. . GEOLE satellites

. . PEOLE satellites

RT

free iets

DEF

free flow

Fluid jets without solid boundaries,

void ratio

. . Poseidon satellite SPOT (French satellite) SRET satellites . SRET 1 satellite . . SRET 2 satellite European space programs METEOSAT satellite Symphonie satellites

French space program

(added December 1990)

programs

space programs

European space programs French space program

**EOLE** satellites

France

**GEOLE** satellites

Granat satellite

Hermes manned spaceplane international cooperation

METEOSAT satellite

∞ research projects space exploration

space missions

∞ spacecraft

SRET 1 satellite

SRET satellites

#### 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

DEF 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

#### frequencies GS

- 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 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 mission bandwidth is reference to a see rized 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).

RT communicating frequency reuse

maximum usable frequency orbit spectrum utilization

frequency bands
USE frequencies

# frequency compression demodulators

demodulators

. frequency compression demodulators

## frequency control

frequency regulation UF GS

frequency control
. automatic frequency control

RT autodynes

∞ control crystal oscillators

frequency pulling quartz crystals signal stabilization

#### frequency conversion

USE frequency converters

### frequency converters

frequency conversion frequency translation

## frequency converters

- down-converters
- frequency dividers
- frequency multipliers
- frequency synthesizers
- parametric frequency converters
- up-converters
- RT ∞ conversion ∞ converters

harmonic generators mixing circuits

parametric amplifiers

pulse width amplitude converters

# frequency discriminators

DEF Electronic circuits which deliver output voltages proportional to the deviations of signals from predetermined frequency values.

GS circuits

discriminators

### . . frequency discriminators

# frequency distribution

(OF CYCLIC VARIATIONS) distribution (property) . frequency distribution

. kurtosis

cycles 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.

**FDMA** 

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

DEF The combining of a number of signals to share a medium by dividing it into different frequency bands for each signal.

ĠS

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

Random changing of frequencies in transmission to mislead or prevent interception by unauthorized equipment.

spread spectrum transmission

frequency reuse frequency shift keying jamming

# transmission efficiency

frequency measurement RT acoustic measurement ∞ 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 instantaneous 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

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 pulse modulation

vocoders

voltage controlled oscillators

#### frequency modulation photomultipliers

amplifiers GS

current amplifiers
. photomultiplier tubes

#### ... frequency modulation photomultipliers

electron tubes

. cold cathode tubes

. . phototubes

. . . photomultiplier tubes

.... frequency modulation photomultipliers

cathodes

vacuum tube oscillators

#### frequency multipliers

frequency converters

frequency multipliers

RT phase matching

## frequency pulling

(added July 1991)

pulling (frequency stability)

distortion

frequency control

frequency shift

frequency stability laser outputs

laser stability

oscillators

stable oscillations

tuning

## frequency ranges

Specifically designated parts of the frequency spectrum.

range (extremes)

. frequency ranges

. . octaves

. . radio range . . subaudible frequencies

acoustic frequencies bandwidth

dynamic range

frequencies

frequency response

frequency reuse

frequency regulation

USE frequency control

### frequency response

UF phase response

GS responses

frequency response

RT acuity

broadband

distributed amplifiers

dynamic characteristics

dynamic range

dynamic response

equalizers (circuits)

excitation

frequency domain analysis

frequency ranges linear filters

linear receivers log periodic antennas

logarithmic receivers

perception

pulse repetition rate ramp functions

sensitivity

smear spectral sensitivity

step functions stroking tests

thresholds (perception)

#### frequency reuse

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.

data links

downlinking

frequencies frequency assignment

frequency hopping

frequency ranges

maximum usable frequency microwave transmission

radio transmission satellite transmission

uplinking

## frequency scanning

GS scanning

frequency scanning

panoramic scanning radar scanning

spectrum analysis

sweep circuits

sweep frequency

# frequency shift

Brillouin effect

Doppler effect Doppler-Fizeau effect

frequency pulling

gyrotropism

# frequency shift keying

DEF That form of frequency modulation in which the modulating wave shifts the output frequency between predetermined values, and the output wave is coherent with no phase discontinuity.

GS coding

. signal encoding

. . frequency modulation

. . frequency shift keying keying

. frequency shift keying

modulation . frequency modulation

frequency shift keying

frequency hopping radio transmission

frequency stability
UF acoustic stability

dynamic characteristics . dynamic stability GS

. frequency stability

stability

. dynamic stability

frequency stability

crystal oscillators frequency pulling

laser stability oscillators quartz crystals

stable oscillations

voltage controlled oscillators

#### frequency standards

standards

. frequency standards

atomic clocks gas masers ion storage

masers resonators

time signals time synchronization

#### frequency synchronization

synchronism

. frequency synchronization bit synchronization

capture effect homodyne reception sweep frequency

synchronized oscillators svntonv time synchronization

# frequency synthesizers

GS frequency converters frequency synthesizers

signal generators

. frequency synthesizers mixing circuits oscillators synthesizers

frequency translation
USE frequency converters

fresh water DEF Water in rivers, lakes, springs, etc. containing no significant amounts of dissolved

salts GS

water fresh water

AgRISTARS project aquifers

ground water

limnology potable water reservoirs

# springs (water)

Fresnel diffraction

GS diffraction . Fresnel diffraction gratings (spectra)

interferometry speckle interferometry

Fresnel integrals
UF Fresnel-Kirchhoff integrals

wave diffraction

functions (mathematics) Fresnel integrals diffraction patterns trigonometric functions

Fresnel lenses DEF Thin lenses constructed with stepped setbacks so as to have the optical properties of

much thicker lenses. GS lenses

Fresnel lenses RT focusing

∞ optics

Fresnel reflectors DEF Devices characterized by a set of mirrors with varying orientation arranged so as to have the optical properties of a smooth reflector, e.g., parabolic reflector.

GS mirrors

	. Fresnel reflectors		friction drag	RT	Mercury MA-6 flight
	reflectors		aerodynamic drag	fringe	multiplication
RT	. Fresnel reflectors interferometry		supersonic drag viscous drag		The duplicating effect of a family of
	slits	RT	minimum drag	curves	superimposed on another family of
	speckle interferometry		pressure drag		so that the curves intersect at angles less
			riblets		degrees. A new family of curves appears
	I region  The region between the antenna and		satellite drag	wnich p	pass through intersections of the original
	The region between the antenna and unhofer region.		surface roughness effects wave drag	RT	diffraction patterns
GS	regions		wave drag		interference grating
	. Fresnel region	friction	factor		Moire effects
RT	antenna radiation patterns	UF	friction loss coefficient		Moire fringes
	diffraction patterns far fields	RT	coefficient of friction		multiplication photoelastic analysis
	iai lielus		pressure gradients skin friction		stress analysis
Fresnel	-Kirchhoff integrals		Starr modern		stress concentration
USE	Fresnel integrals		oss coefficient		
funktin m		USE	friction factor		patterns
fretting RT	erosion	friction	measurement	USL	diffraction patterns
	fatigue (materials)	UF	tribometry	frit	
	tribology	GS	mechanical measurement	DEF	A powdered ceramic prepared by fus-
	wear tests		. friction measurement		hysical mixture of oxides into a uniform
funktin m		RT	elastohydrodynamics		which is then quenched and milled into a
_	corrosion corrosion	~	kinetic friction measurement		omogeneous powder. ceramics
ao	. fretting corrosion		static friction		fusion (melting)
RT	fatigue (materials)		tribometers		glazes
	stress corrosion				vitreous materials
	wear		pressure drop	<b></b>	
friction		USE	skin friction	frogs GS	animals
DEF	The resistance to the relative motion of	friction	reduction	45	. vertebrates
	ly sliding, rolling, or flowing over another	RT	antifriction bearings		amphibia
body wi	th which it is in contact.		coefficient of friction		frogs
GS	friction		lubrication	ft-1	
	. dry friction	∞	reduction		areas (meteorology) fronts (meteorology)
	. flow resistance friction drag		streamlining	OOL	nonts (meteorology)
	aerodynamic drag	friction	stir welding	frontal	waves
	supersonic drag	(adde	ed August 2002)	RT	ocean currents
	viscous drag		Solid state welding technique where a		oceanography
	. internal friction		ly heated metal seam is stirred by a		tsunami waves water waves
	. kinetic friction sliding friction		pin tool to create a bond. The process no melting and the weld occurs via		water waves ∞ Waves
	. skin friction		plastic deformation associated with fric-		
	friction drag	tional str		∞ fronts	
	aerodynamic drag		FSW (welding)	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS
	supersonic drag	GS	welding		LISTED BELOW)
	viscous drag static friction		. pressure welding friction welding	RT	cold fronts
RT	abrasion		friction stir welding		fronts (meteorology) shock fronts
	coefficient of friction	RT	aluminum alloys		warm fronts
	drag		plastic deformation		wave fronts
	drag reduction		stirring		
	energy dissipation fluid flow		welded joints		(meteorology)
	mechanical impedance	friction	welding		The contacts at the Earth's surface on two different air masses commonly
۰	o pressure drop		welding		nd warm, that generally move in an east-
	scoring		. pressure welding		ection. Used for frontal areas (meteorol-
	stiction		friction welding		nd weather fronts.
	surface properties surface roughness		friction stir welding	UF	frontal areas (meteorology)
	traction	friction	ess environments	GS	weather fronts fronts (meteorology)
	tribology	GS	environments	ao	. cold fronts
	triboluminescence		. frictionless environments		. warm fronts
	tribometers	RT	deep space	RT	
	wear		levitation		arc clouds
	wear tests wheel brakes	Friedel-	Craft reaction	•	∞ fronts intertropical convergent zones
	WHOOL BLAKES		chemical reactions		marine meteorology
friction	coefficient		. Friedel-Craft reaction		meteorological parameters
USE	coefficient of friction	RT	acylation		meteorology
fuiation	duan		alkylation		storms
friction UF	nonequilibrium drag	Friends	hin 7		synoptic meteorology thunderstorms
GS	dynamic characteristics	GS	manned spacecraft		tornadoes
	. drag		. Mercury spacecraft		tomadoo
	friction drag		Friendship 7	frost	
	aerodynamic drag		reentry vehicles	RT	bay ice
	supersonic drag		. recoverable spacecraft Mercury spacecraft		dew
	viscous drag friction		Friendship 7		freezing ice
	. flow resistance		soft landing spacecraft		low temperature
	friction drag		. Mercury spacecraft		F
	aerodynamic drag		. Friendship 7	frost d	
	supersonic drag		space capsules	GS	
	supersonic drag viscous drag . skin friction		space capsules . Mercury spacecraft Friendship 7	GS	damage . frost damage cold weather

∞ crops distinguished by electrolytes which are heated refueling farm crops to different temperatures, are base, phosphoric acid, molten carbonate, and solid oxide. fuel contamination fruits low temperature electric power plants contamination fuel cell power plants . fuel contamination orchards plants (botany) coal gasification antiicing additives energy technology contaminants frostbite fuel cells refueling GS iniuries frostbite fuel control fuel cells cold tolerance RT combustion control (EXCLUDES BATTERIES)  $\infty$  control DEF Devices which convert chemical en-Froude number engine control ergy directly into electrical energy but differing The nondimensional ratio of the inertial fluid management from a storage battery in that the reacting chemiforce to the force of gravity for a given fluid flow; liquid sloshing cals are supplied continuously as needed to the reciprocal of the Reech number. propellant transfer meet output requirements. dimensionless numbers GS refueling GS electric generators . Froude number rocket engine control . direct power generators ratios turbojet engine control . . fuel cells Froude number biochemical fuel cells RT fluid flow fuel corrosion . . . hydrogen oxygen fuel cells inertia corrosion GS molten carbonate fuel cells kinetic energy . fuel corrosion . . . phosphoric acid fuel cells potential energy RT propellant decomposition regenerative fuel cells Reynolds number propellant storability . . solid oxide fuel cells Strouhal number electrochemical cells fuel elements (nuclear reactors) frozen equilibrium flow . fuel cells USE nuclear fuel elements . . biochemical fuel cells GS fluid flow . . hydrogen oxygen fuel cells . molten carbonate fuel cells . gas flow fuel flow . . equilibrium flow GS fluid flow . . phosphoric acid fuel cells . frozen equilibrium flow . fuel flow . regenerative fuel cells RT shifting equilibrium flow . . propellant transfer . . solid oxide fuel cells combustible flow frozen foods RT ∞ cells ducted flow  $RT \infty food$ chemical auxiliary power units particle laden jets food processing ∞ electric cells reacting flow freeze drying electrocatalysts preserving electrochemistry fuel flow regulators refrigerating electrolytes GS control equipment energy conversion efficiency regulators frozen soils energy storage . . flow regulators USE permafrost fuel cell power plants ... fuel flow regulators hydrogen fuels fruits hydrogen-based energy fuel gages farm crops GS ion exchange membrane electrolytes measuring instruments . fruits magnetohydrodynamic generators . fuel gages RT agriculture solar cells . capacitive fuel gages bollworms solar generators flowmeters botany thermionic converters ∞ food thermoelectric generators fuel injection frost damage wet cells injection carburetors orchards GS injection fuel injection frustration fuel combustion burners RT disabilities GS combustion carburetors emotional factors . fuel combustion fluid injection emotions . nuclear fuel burnup gas injection ∞ inhibition RT combustion efficiency injectors lethargy combustion stability internal combustion engines psychological effects erosive burning jet engines psychology hydrocarbon combustion jet mixing flow hypersonic combustion jet nozzles frustums ignition liquid injection RT cones metal combustion piston engines geometry oxidation propellant sprays pyramids propellant combustion spray nozzles volume solid propellant combustion spontaneous combustion fuel oils FSOI (integrated optics) supersonic combustion GS fuels (added June 1998) turbulent combustion . chemical fuels USE free-space optical interconnects . . liquid fuels . . fuel oils FSW (welding) fuel conservation (added August 2002)
USE friction stir welding oils USE fuel consumption . fuel oils energy policy fuel consumption kerogen fuel capsules The using of fuel by an engine or kerosene RT ∞ capsules power plant; the rate of this consumption, meashale oil nuclear fuels sured, e.g., in gallons or pounds per minute. solvent refined coal pellets fuel conservation spent fuels GS consumption fuel production fuel cell catalysts fuel consumption DEF Producing of conventional and/or alternative fuels by various technologies. USE electrocatalysts burning rate combustion efficiency fuel production GS . hydrocarbon fuel production fuel cell power plants energy consumption energy requirements DEF Power generating devices that directly chemical fuels

engines

internal combustion engines

propellant consumption

composite propellants

crude oil

fission

produce electrical energy from chemical energy and consist of fuel processors, stacked fuel

cells, and dc to ac converters. The main types,

00					
	fusion		spherical tanks		fissium
	hydrocarbon fuels		storage tanks		spent fuels
	hydrogen fuels		tanker aircraft		aircraft fuels
	in situ resource utilization		ullage		. automobile fuels
	liquid fuels		anago	RT	bioconversion
	nuclear fuels	fuel tes	ts		burning rate
	production		fuel tests		
	•	ao	. reactor startup tests		charcoal
	synthesis gas	RT			energy policy
fuel mum		nı	chemical analysis		energy storage
fuel pur	•		corrosion tests		flames
GS	pumps		engine tests		fuel systems
	. fuel pumps	~	o materials tests		fuel tanks
RT	aircraft fuel systems		missile tests		hydrogen
	axial flow pumps		propellant tests		hydrogen production
	centrifugal pumps		stability tests		kerogen
	electromagnetic pumps		test firing		liquid ammonia
	internal combustion engines	~	• tests		liquid hydrogen
	jet engines				nuclear fuel elements
	jet pumps	fuel val	ves		oils
	materials handling		valves		
		GO	. fuel valves		oxidizers
	turbine pumps	RT			premixing
4		nı	aircraft fuel systems		propellants
fuel spr			gas valves		rocket propellants
RT	liquid injection		relief valves		shale oil
	propellant sprays				transportation energy
	sprayers	fuel-air			
		GS	ratios	Fujita n	nethod
fuel sys	tems		. fuel-air ratio		coordinates
GS	fuel systems	RT	burning rate		• methodology
	. aircraft fuel systems		combustion efficiency		tornadoes
RT	accumulators		compression ratio	_	transformations
	automobiles		gas mixtures	۰	
			•		transformations (mathematics)
	bunkers (fuel)		ignition limits		wind velocity
	carburetors		premixing		
	chokes (fuel systems)		pressure ratio	full sca	
	engines		volumetric efficiency	RT	altitude tests
	feeders				engine tests
	fuels	fueling			flight tests
	injectors	USE	refueling		ground tests
	inlet temperature				high altitude tests
	intake systems	fuels			• tests
	internal combustion engines	GS	fuels	0	0 16515
	manifolds	0.0	. chemical fuels	fullanam	
			endothermic fuels	fulleren	
	plenum chambers				ed August 1991)
	propellant transfer		high energy fuels		Molecules whose structure is similar to
	refueling		hydrocarbon fuels	the sha	pe of a soccer ball (polyhedron). The
	self sealing		diesel fuels	geodesi	c-dome-like molecular structure causes
	spray nozzles		fossil fuels	these m	olecules to be named after Buckminster
∞	systems		coal	Fuller h	ence, 'fullerene. '
	,		anthracite		fullerenes
fuel tan	k pressurization		lignite	ao	. buckminsterfullerene
	pressurizing		solvent refined coal	RT	atomic clusters
ao	. fuel tank pressurization		crude oil	nı.	
			natural gas		carbon
DT			9		carbon nanotubes
RT	aircraft fuel systems				fullerides
RT	exhaust systems		liquefied natural gas		
RT	exhaust systems expulsion bladders		peat		graphite
RT	exhaust systems expulsion bladders liquid rocket propellants		peat shale oil		
RT	exhaust systems expulsion bladders liquid rocket propellants pressure		peat shale oil gasoline		graphite
RT	exhaust systems expulsion bladders liquid rocket propellants		peat shale oil gasoline jet engine fuels		graphite molecular clusters
RT	exhaust systems expulsion bladders liquid rocket propellants pressure		peat shale oil gasoline		graphite molecular clusters nanoparticles nanostructure growth
RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators		peat shale oil gasoline jet engine fuels		graphite molecular clusters nanoparticles nanostructure growth nanotubes
RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel		graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules
RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel		graphite molecular clusters nanoparticles nanostructure growth nanotubes
RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel	fullerid	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons
RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel	fullerid	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons
RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves ullage		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel JP-8 jet fuel JP-8 jet fuel synthane	(add	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons  es ed February 1998)
RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel JP-8 jet fuel JP-8 jet fuel JP-8 jet fuel synthane liquid fuels		graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons es ed February 1998) carbon compounds
	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves ullage vapor pressure		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel synthane iquid fuels antimisting fuels	(add GS	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons es ed February 1998) carbon compounds . fullerides
fuel tan	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves ullage vapor pressure		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel synthane iquid fuels antimisting fuels diesel fuels	(add GS RT •	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons  es ed February 1998) carbon compounds . fullerides e alkali metal compounds
	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves ullage vapor pressure ks tanks (containers)		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel JP-8 jet fuel synthane iquid fuels antimisting fuels diesel fuels gasoline	(add GS RT •	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons es ed February 1998) carbon compounds . fullerides - alkali metal compounds - chemical compounds
fuel tan	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves ullage vapor pressure ks tanks (containers) . fuel tanks		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel JP-8 jet fuel synthane liquid fuels antimisting fuels diesel fuels gasoline hydrogen fuels	(add GS RT •	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons  es ed February 1998) carbon compounds . fullerides e alkali metal compounds doped crystals
fuel tani GS	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves ullage vapor pressure  ks tanks (containers) . fuel tanks . wing tanks		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel JP-8 jet fuel JP-8 jet fuel synthane liquid fuels antimisting fuels diesel fuels gasoline hydrogen fuels jet engine fuels	(add GS RT •	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons es ed February 1998) carbon compounds . fullerides - alkali metal compounds - chemical compounds
fuel tan	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves ullage vapor pressure ks tanks (containers) . fuel tanks		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel JP-8 jet fuel synthane liquid fuels antimisting fuels diesel fuels gasoline hydrogen fuels	(add GS RT •	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons  es ed February 1998) carbon compounds . fullerides e alkali metal compounds doped crystals
<b>fuel tan</b> l GS RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves ullage vapor pressure  ks tanks (containers) . fuel tanks . wing tanks		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel JP-8 jet fuel JP-8 jet fuel synthane liquid fuels antimisting fuels diesel fuels gasoline hydrogen fuels jet engine fuels	(add GS RT •	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons  es ed February 1998) carbon compounds . fullerides e alkali metal compounds doped crystals fullerenes
<b>fuel tan</b> l GS RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves ullage vapor pressure  ks tanks (containers) . fuel tanks wing tanks aircraft fuel systems containers		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel synthane iquid fuels antimisting fuels diesel fuels gasoline hydrogen fuels jet engine fuels jet engine fuels JP-4 jet fuel JP-5 jet fuel	(addi GS RT •	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons  es ed February 1998) carbon compounds . fullerides e alkali metal compounds doped crystals fullerenes superconductors (materials)
<b>fuel tan</b> l GS RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves ullage vapor pressure  ks tanks (containers) . fuel tanks wing tanks aircraft fuel systems containers corrosion prevention		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel JP-8 jet fuel synthane liquid fuels antimisting fuels diesel fuels gasoline hydrogen fuels jet engine fuels jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-5 jet fuel	(addi GS RT • fulmina	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons  es ed February 1998) carbon compounds . fullerides e alkali metal compounds doped crystals fullerenes superconductors (materials)
<b>fuel tan</b> l GS RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators propellant storage propellant storage propellant tanks propulsion relief valves ullage vapor pressure  ks tanks (containers) . fuel tanks . wing tanks aircraft fuel systems corrosion prevention cryogenic fluid storage		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-8 jet fuel JP-8 jet fuel synthane liquid fuels antimisting fuels diesel fuels gasoline hydrogen fuels jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-6 jet fuel JP-6 jet fuel	(addi GS RT •	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons  es ed February 1998) carbon compounds . fullerides alkali metal compounds doped crystals fullerenes superconductors (materials)  tes esters
<b>fuel tan</b> l GS RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves ullage vapor pressure  ks tanks (containers) . fuel tanks . wing tanks aircraft fuel systems containers corrosion prevention cryogenic fluid storage cylindrical tanks		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel JP-8 jet fuel synthane liquid fuels antimisting fuels diesel fuels gasoline hydrogen fuels jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-5 jet fuel JP-7 jet fuel JP-7 jet fuel JP-7 jet fuel JP-7 jet fuel	(add GS RT • fulmina	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons  es ed February 1998) carbon compounds . fullerides e alkali metal compounds doped crystals fullerenes superconductors (materials)  tes esters . isocyanates
<b>fuel tan</b> l GS RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves ullage vapor pressure  ks tanks (containers) . fuel tanks wing tanks aircraft fuel systems containers corrosion prevention cryogenic fluid storage cylindrical tanks expulsion bladders		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-7 jet fuel JP-7 jet fuel JP-8 jet fuel synthane iquid fuels antimisting fuels diesel fuels gasoline hydrogen fuels jet engine fuels jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel	(add GS RT • fulmina	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons  es ed February 1998) carbon compounds - fullerides - alkali metal compounds doped crystals fullerenes superconductors (materials)  tes esters - isocyanates - fullminates
<b>fuel tan</b> l GS RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves ullage vapor pressure  ks tanks (containers) . fuel tanks wing tanks aircraft fuel systems containers corrosion prevention cryogenic fluid storage cylindrical tanks expulsion bladders external tanks		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel synthane iquid fuels antimisting fuels diesel fuels gasoline hydrogen fuels jet engine fuels jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-5 jet fuel JP-6 jet fuel JP-8 jet fuel	(add GS RT • fulmina	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons  es ed February 1998) carbon compounds . fullerides alkali metal compounds doped crystals fullerenes superconductors (materials)  tes esters . isocyanates . fullminates nitrogen compounds
<b>fuel tan</b> l GS RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves ullage vapor pressure  ks tanks (containers) . fuel tanks wing tanks aircraft fuel systems containers corrosion prevention cryogenic fluid storage cylindrical tanks expulsion bladders external tanks feed systems		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel synthane liquid fuels antimisting fuels antimisting fuels diesel fuels gasoline hydrogen fuels jet engine fuels jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel	(add GS RT • fulmina	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons  ses ed February 1998) carbon compounds . fullerides e alkali metal compounds doped crystals fullerenes superconductors (materials)  tes esters . isocyanates . fulminates nitrogen compounds . cyano compounds
<b>fuel tan</b> l GS RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves ullage vapor pressure  ks tanks (containers) . fuel tanks . wing tanks aircraft fuel systems containers corrosion prevention cryogenic fluid storage cylindrical tanks expulsion bladders external tanks feed systems fuels		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-8 jet fuel JP-8 jet fuel synthane liquid fuels antimisting fuels diesel fuels gasoline hydrogen fuels jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel JP-8 jet fuel JP-8 jet fuel kerosene metal fuels synthetic fuels synthetic fuels	(add GS RT • fulmina	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons  es ed February 1998) carbon compounds . fullerides ealkali metal compounds doped crystals fullerenes superconductors (materials)  tes esters . isocyanates nitrogen compounds . cyano compounds . isocyanates . succession compounds . cyano compounds . isocyanates
<b>fuel tan</b> l GS RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves ullage vapor pressure  ks tanks (containers) . fuel tanks wing tanks aircraft fuel systems containers corrosion prevention cryogenic fluid storage cylindrical tanks expulsion bladders external tanks feed systems fuels heating equipment		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-5 jet fuel JP-7 jet fuel JP-8 jet fuel JP-8 jet fuel synthane iquid fuels antimisting fuels diesel fuels gasoline hydrogen fuels jet engine fuels jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel JP-8 jet fuel JP-8 jet fuel JP-8 jet fuel synthetic fuels synthetic fuels synthetic fuels gasohol (fuel)	fulmina GS	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons  es ed February 1998) carbon compounds - fullerides - alkali metal compounds doped crystals fullerenes superconductors (materials)  tes esters - isocyanates - rulminates nitrogen compounds - cyano compounds - cyano compounds - isocyanates
<b>fuel tan</b> l GS RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves ullage vapor pressure  ks tanks (containers) . fuel tanks wing tanks aircraft fuel systems containers corrosion prevention cryogenic fluid storage cylindrical tanks expulsion bladders external tanks feed systems fuels heating equipment liquid sloshing		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel synthane iquid fuels antimisting fuels diesel fuels gasoline hydrogen fuels jet engine fuels jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel synthetic fuels synthetic fuels gasohol (fuel) synthane	(add GS RT • fulmina	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons  es ed February 1998) carbon compounds . fullerides ealkali metal compounds doped crystals fullerenes superconductors (materials)  tes esters . isocyanates nitrogen compounds . cyano compounds . isocyanates . succession compounds . cyano compounds . isocyanates
<b>fuel tan</b> l GS RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves ullage vapor pressure  ks tanks (containers) . fuel tanks wing tanks aircraft fuel systems containers corrosion prevention cryogenic fluid storage cylindrical tanks expulsion bladders external tanks feed systems fuels heating equipment		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-5 jet fuel JP-7 jet fuel JP-8 jet fuel JP-8 jet fuel synthane iquid fuels antimisting fuels diesel fuels gasoline hydrogen fuels jet engine fuels jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel JP-8 jet fuel JP-8 jet fuel JP-8 jet fuel synthetic fuels synthetic fuels synthetic fuels gasohol (fuel)	fulmina GS	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons  es ed February 1998) carbon compounds - fullerides - alkali metal compounds doped crystals fullerenes superconductors (materials)  tes esters - isocyanates - rulminates nitrogen compounds - cyano compounds - cyano compounds - isocyanates
<b>fuel tan</b> l GS RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves ullage vapor pressure  ks tanks (containers) . fuel tanks wing tanks aircraft fuel systems containers corrosion prevention cryogenic fluid storage cylindrical tanks expulsion bladders external tanks feed systems fuels heating equipment liquid sloshing		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel synthane iquid fuels antimisting fuels diesel fuels gasoline hydrogen fuels jet engine fuels jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel synthetic fuels synthetic fuels gasohol (fuel) synthane	fulmina GS	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons  es ed February 1998) carbon compounds . fullerides ealkali metal compounds doped crystals fullerenes superconductors (materials)  tes esters . isocyanates . fulminates nitrogen compounds . isocyanates . fulminates detonators
<b>fuel tan</b> l GS RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves ullage vapor pressure  ks tanks (containers) . fuel tanks wing tanks aircraft fuel systems containers corrosion prevention cryogenic fluid storage cylindrical tanks expulsion bladders external tanks feed systems fuels heating equipment liquid sloshing pods (external stores)		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel JP-8 jet fuel synthane liquid fuels antimisting fuels diesel fuels gasoline hydrogen fuels jet engine fuels jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-5 jet fuel JP-8 jet fuel	fulmina GS	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons  es ed February 1998) carbon compounds . fullerides e alkali metal compounds doped crystals fullerenes superconductors (materials)  tes esters . isocyanates . fullminates nitrogen compounds . isocyanates fullminates fullminates detonators explosives
<b>fuel tan</b> l GS RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves ullage vapor pressure  ks tanks (containers) . fuel tanks wing tanks aircraft fuel systems containers corrosion prevention cryogenic fluid storage cylindrical tanks expulsion bladders external tanks feed systems fuels heating equipment liquid sloshing pods (external stores) pressure vessels propellant storage		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-5 jet fuel JP-7 jet fuel JP-8 jet fuel JP-8 jet fuel synthane iquid fuels antimisting fuels diesel fuels gasoline hydrogen fuels jet engine fuels jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel synthetic fuels synthetic fuels synthane clean fuels coke gaseous fuels	fulmina GS	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons  es ed February 1998) carbon compounds . fullerides e alkali metal compounds doped crystals fullerenes superconductors (materials)  tes esters . isocyanates . fullminates nitrogen compounds . isocyanates fullminates fullminates detonators explosives
<b>fuel tan</b> l GS RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves ullage vapor pressure  ks tanks (containers) . fuel tanks wing tanks aircraft fuel systems containers corrosion prevention cryogenic fluid storage cylindrical tanks expulsion bladders external tanks feed systems fuels heating equipment liquid sloshing pods (external stores) pressure vessels propellant storage propellant storage propellant storage		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel synthane iquid fuels antimisting fuels diesel fuels gasoline hydrogen fuels jet engine fuels jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-6 jet fuel JP-8 jet fuel synthetic fuels synthetic fuels synthetic fuels synthane clean fuels coke gasoous fuels natural gas	fulmina GS RT • fulmina GS	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons  es ed February 1998) carbon compounds . fullerides elakali metal compounds doped crystals fullerenes superconductors (materials)  tes esters . isocyanates . fulminates nitrogen compounds . isocyanates . fulminates cyano compounds . isocyanates . fulminates detonators explosives propellants
<b>fuel tan</b> l GS RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves ullage vapor pressure  ks tanks (containers) . fuel tanks wing tanks aircraft fuel systems containers corrosion prevention cryogenic fluid storage cylindrical tanks expulsion bladders external tanks feed systems fuels heating equipment liquid sloshing pods (external storage propellant tanks propellants		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel synthane liquid fuels antimisting fuels diesel fuels gasoline hydrogen fuels jet engine fuels jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-5 jet fuel JP-7 jet fuel JP-7 jet fuel JP-8 jet fuel JP-9 j	fulmina GS RT o	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons  es ed February 1998) carbon compounds . fullerides e alkali metal compounds doped crystals fullerenes superconductors (materials)  tes esters . isocyanates . rulminates nitrogen compounds isocyanates fulminates detonators explosives propellants
<b>fuel tan</b> l GS RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure vessels propellant storage propellant tanks propulsion relief valves ullage vapor pressure  ks tanks (containers) . fuel tanks . wing tanks aircraft fuel systems containers corrosion prevention cryogenic fluid storage cylindrical tanks expulsion bladders external tanks feed systems fuels heating equipment liquid sloshing pods (external storage propellant tanks propellant storage propellants propellants propulsion		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel JP-8 jet fuel synthane liquid fuels antimisting fuels antimisting fuels diesel fuels gasoline hydrogen fuels jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-5 jet fuel JP-7 jet fuel JP-8 jet fuel synthetic fuels synthetic fuels synthetic fuels gasohol (fuel) synthane clean fuels coke gaseous fuels natural gas liquefied natural gas nuclear fuels	fulmina GS RT • fulmina GS	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons  es ed February 1998) carbon compounds . fullerides e alkali metal compounds doped crystals fullerenes superconductors (materials)  tes esters . isocyanates . rulminates nitrogen compounds . cyano compounds . isocyanates fulminates detonators explosives propellants  aerosols dispersions
<b>fuel tan</b> l GS RT	exhaust systems expulsion bladders liquid rocket propellants pressure pressure regulators pressure vessels propellant storage propellant tanks propulsion relief valves ullage vapor pressure  ks tanks (containers) . fuel tanks wing tanks aircraft fuel systems containers corrosion prevention cryogenic fluid storage cylindrical tanks expulsion bladders external tanks feed systems fuels heating equipment liquid sloshing pods (external storage propellant tanks propellants		peat shale oil gasoline jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-6 jet fuel JP-7 jet fuel JP-8 jet fuel synthane liquid fuels antimisting fuels diesel fuels gasoline hydrogen fuels jet engine fuels jet engine fuels JP-4 jet fuel JP-5 jet fuel JP-5 jet fuel JP-7 jet fuel JP-7 jet fuel JP-8 jet fuel JP-9 j	fulmina GS RT • fulmina GS	graphite molecular clusters nanoparticles nanostructure growth nanotubes polyatomic molecules polyhedrons  es ed February 1998) carbon compounds . fullerides e alkali metal compounds doped crystals fullerenes superconductors (materials)  tes esters . isocyanates . rulminates nitrogen compounds isocyanates fulminates detonators explosives propellants

### fumigation

fire damage gas mixtures gases haze detection reaction products smoke smoke detectors vapors wastes

#### fumigation

antiseptics bactericides spraying sterilization

#### function generators

GS signal generators . function generators RT ∞ generators pulse generators voltage generators wave generation

#### function space

analysis (mathematics)

. function space

. . Banach space

. . . Hilbert space . . Sobolev space

fibers (mathematics)

field theory (physics)

functions (mathematics) orthogonal functions quantum mechanics

series (mathematics)

∞ space

statistical mechanics vectors (mathematics)

## functional analysis

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.

GS specifications

# functional design specifications

aeronautical engineering

∞ design

equipment specifications missile design product development systems engineering

### functional integration

analysis (mathematics)

. real variables

. . measure and integration . . . functional integration

analog computers differential equations digital integrators partial differential equations

#### functionally gradient materials

(added September 1992)

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) UF

composite materials GS

. 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) SN

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) wavelet analysis

fungal diseases

SN (EXCLUDES PLANT DISEASES)
GS diseases

. infectious diseases . fungal diseases

dermatitis

funai respiratory diseases

fungi

plants (botany) fungi

. . Aspergillus . . Coccomyces

. . gibberellins

. . neurospora . . rhizopus

. . rust fungi

. . saccharomyces

yeast

RT blight

fungal diseases

RT

	liebane		haat traatmant		nhace change metarials
	lichens		heat treatment		phase change materials
	microspores		incinerators	6	
	mitra		induction heating	fusion I	
~	mold .		mechanical engineering	USE	heat of fusion
	panspermia		melting	funion	
	plant diseases	c	∞ metallurgy		propulsion
	spores		mufflers		led September 1999)
	thermophiles		ovens	GS	
			refractories		nuclear propulsion
fungicio			separators		. fusion propulsion
GS	fungicides		sintering	RT	inertial confinement fusion
	. xanthines		waste energy utilization		nuclear electric propulsion
	caffeine				nuclear fusion
	guanines	FUSE (	satellite)		nuclear rocket engines
	uric acid		ed November 2000)		plasma propulsion
RT	antiinfectives and antibacterials	USE	Far UV Spectroscopic Explorer		spacecraft propulsion
	toxicology				
		fuselag	e mounting		reactors
funnels			aircraft production	GS	nuclear reactors
RT	conical inlets				. fusion reactors
~	nozzles	fuselag	ies		heliotrons
		GS	aircraft structures		spheromaks
furan re	sins	ao	. fuselages		stellarators
GS	plastics	RT	aircraft construction materials	RT	beta factor
	. synthetic resins	111	aircraft parts		blankets (fusion reactors)
	thermosetting resins				bumpy toruses
	furan resins		airframes		fusion-fission hybrid reactors
	polyamide resins		bays (structural units)		impact fusion
			body-wing and tail configurations		inertial fusion (reactor)
	Kevlar (trademark)		camber		
	Nylon (trademark)		centerbodies		limiters (fusion reactors)
	resins		cockpits		mirror fusion
	. synthetic resins		cylindrical bodies		nuclear fission
	thermosetting resins		hulls (structures)		nuclear fusion
	furan resins		wing-fuselage stores		Q values (nuclear physics)
	polyamide resins		ggg	c	∞ reactors
	Kevlar (trademark)	fucolog	e-wing stores		tandem mirrors
	Nylon (trademark)				thermal barriers (plasma control)
RT	adhesives		ed August 1998)		,
	coatings	USE	wing-fuselage stores	fusion	weapons
	Coalings	_		UF	
furans		∞ fuses		GS	weapons
	0	SN	(USE OF A MORE SPECIFIC TERM IS	0.0	. nuclear weapons
DEF	Organic heterocyclic compounds con-		RECOMMENDEDCONSULT THE TERMS		fusion weapons
	iunsaturated rings of four carbon atoms	RT	LISTED BELOW) circuit breakers	RT	laser weapons
and one	oxygen atom; also known as furfuran or	111	Circuit Dieakers	וח	lasei weapoiis
			airquit protection		
tetrol.			circuit protection		nuclear fusion
tetrol. GS	organic compounds		electric fuses	forten	nuclear fusion
	organic compounds . cyclic compounds		electric fuses fuses (ordnance)		nuclear fusion welding
	. cyclic compounds		electric fuses	fusion GS	nuclear fusion welding welding
	. cyclic compounds . heterocyclic compounds		electric fuses fuses (ordnance)		nuclear fusion  welding  welding  fusion welding
	. cyclic compounds heterocyclic compounds furans	fuses (	electric fuses fuses (ordnance)		nuclear fusion welding welding
GS	. cyclic compounds heterocyclic compounds furans tetrahydrofuran	fuses ( RT	electric fuses fuses (ordnance) warheads		nuclear fusion  welding  welding  fusion welding
GS	. cyclic compounds . heterocyclic compounds furans tetrahydrofuran chemical compounds	•	electric fuses fuses (ordnance) warheads ordnance) ammunition		nuclear fusion  welding  welding  fusion welding  electric welding
GS	. cyclic compounds . heterocyclic compounds furans tetrahydrofuran chemical compounds plastics	•	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives)		nuclear fusion  welding welding fusion welding electric welding ear arc welding ear arc welding ear gas tungsten arc welding
GS	. cyclic compounds . heterocyclic compounds furans tetrahydrofuran chemical compounds plastics solvents	RT `	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators		nuclear fusion  welding welding fusion welding electric welding arc welding gas tungsten arc welding glasma arc welding electric welding
GS	. cyclic compounds . heterocyclic compounds furans tetrahydrofuran chemical compounds plastics	RT `	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators ofuses		nuclear fusion  welding welding fusion welding electric welding are welding gas tungsten are welding plasma are welding electroslag welding electroslag welding
GS RT ∝	. cyclic compounds . heterocyclic compounds furans tetrahydrofuran chemical compounds plastics solvents thiophenes	RT `	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives)		nuclear fusion  welding welding fusion welding electric welding electric welding electro welding electro yelding electro yelding electroslag welding electroslag welding electroslag welding electroslag welding electroslag
GS RT ∝	. cyclic compounds . heterocyclic compounds furans tetrahydrofuran chemical compounds plastics solvents thiophenes alcohol	RT `	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads		nuclear fusion  welding welding fusion welding electric welding electric welding electrose arc welding electrose arc welding electrose welding electrose welding electrose welding electrose welding electron beam welding
GS RT ∝ furfuryl RT	. cyclic compounds . heterocyclic compounds furans tetrahydrofuran chemical compounds plastics solvents thiophenes  alcohol aldehydes	RT `	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives)		nuclear fusion  welding welding fusion welding electric welding gas tungsten arc welding general plasma arc welding electroslag welding flash welding electron beam welding gas welding
GS RT ∝ furfuryl RT	. cyclic compounds . heterocyclic compounds furans tetrahydrofuran chemical compounds plastics solvents thiophenes alcohol	RT `	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads wicks		nuclear fusion  welding welding fusion welding electric welding gas tungsten arc welding plasma arc welding electroslag welding flash welding electron beam welding gas welding spas welding
GS RT   furfuryl RT	. cyclic compounds . heterocyclic compounds furans tetrahydrofuran chemical compounds plastics solvents thiophenes  alcohol aldehydes aromatic compounds	RT ` · fusibili	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads wicks		nuclear fusion  welding welding fusion welding electric welding arc welding electrostage welding electroslag welding electroslag welding flash welding electron beam welding egas welding electron beam welding
GS RT   furfuryl RT	. cyclic compounds . heterocyclic compounds furans tetrahydrofuran chemical compounds plastics solvents thiophenes alcohol aldehydes aromatic compounds antennas	RT `	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads wicks  ty thermodynamic properties	GS	nuclear fusion  welding welding fusion welding electric welding electric welding electron gas tungsten arc welding electroslag welding electroslag welding electron beam welding
GS RT   furfuryl RT	. cyclic compounds . heterocyclic compounds furans tetrahydrofuran chemical compounds plastics solvents thiophenes  alcohol aldehydes aromatic compounds	RT ` · fusibili	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads wicks  ty thermodynamic properties thermophysical properties		nuclear fusion  welding welding fusion welding electric welding electric welding electron arc welding electroslag welding electron beam welding
GS  RT ~  furfuryl  RT ~  furlable	. cyclic compounds . heterocyclic compounds furans tetrahydrofuran chemical compounds plastics solvents thiophenes alcohol aldehydes aromatic compounds antennas	fusibili GS	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads wicks  ty thermodynamic properties thermophysical properties fuses	GS	nuclear fusion  welding welding fusion welding electric welding arc welding electroslag welding electroslag welding flash welding electron beam welling el
GS  RT ~  furfuryl  RT ~  furlable	. cyclic compounds . heterocyclic compounds furans tetrahydrofuran chemical compounds plastics solvents thiophenes alcohol aldehydes aromatic compounds antennas antennas antennas	fusibilit GS RT (	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads wicks  ty thermodynamic properties . thermophysical properties . fusibility physical properties	GS	nuclear fusion  welding welding fusion welding electric welding electric welding electron arc welding electroslag welding electron beam welding
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GS  RT   furfuryl  RT  furlable  GS	. cyclic compounds . heterocyclic compounds heterocyclic compounds furans tetrahydrofuran chemical compounds plastics solvents thiophenes  alcohol aldehydes aromatic compounds  antennas antennas antennas . furlable antennas	fusibilit GS RT (	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads wicks  ty thermodynamic properties . thermophysical properties . fusibility physical properties	GS RT fusion-	nuclear fusion  welding welding fusion welding electric welding electric welding electroslag welding electroslag welding electron beam welding electron be
GS  RT   furfuryl  RT  furlable  GS	. cyclic compounds . heterocyclic compounds furans turans tetrahydrofuran chemical compounds plastics solvents thiophenes alcohol aldehydes aromatic compounds antennas antennas antennas . furlable antennas communication equipment folding structures satellite antennas	fusibilit GS RT (	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads wicks  ty thermodynamic properties . thermophysical properties . fusibility physical properties resistance	GS RT	nuclear fusion  welding welding fusion welding electric welding are welding electroslag welding electroslag welding electroslag welding electron beam weld
GS  RT   furfuryl  RT  furlable  GS	. cyclic compounds . heterocyclic compounds furans tetrahydrofuran chemical compounds plastics solvents thiophenes alcohol aldehydes aromatic compounds antennas antennas antennas communication equipment folding structures satellite antennas space communication	fusibili GS RT a	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads wicks  ty thermodynamic properties thermophysical properties fusibility physical properties resistance welding	RT fusion- GS	nuclear fusion  welding welding fusion welding electric welding gas tungsten arc welding electroslag welding electroslag welding electron beam welding ele
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GS  RT   furfuryl  RT  furlable  GS  RT	. cyclic compounds . heterocyclic compounds . heterocyclic compounds furans tetrahydrofuran chemical compounds plastics solvents thiophenes alcohol aldehydes aromatic compounds antennas antennas . furlable antennas communication equipment folding structures satellite antennas space communication spacecraft antennas	fusibiliting GS  RT of tusiform USE	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads wicks  ty thermodynamic properties thermophysical properties fusibility physical properties resistance welding	RT fusion- GS	nuclear fusion  welding welding fusion welding electric welding gas tungsten arc welding electroslag welding electroslag welding electron beam welding ele
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GS  RT   furfuryl  RT  furlable  GS  RT	. cyclic compounds . heterocyclic compounds . heterocyclic compounds furans tetrahydrofuran chemical compounds plastics solvents thiophenes  alcohol aldehydes aromatic compounds  antennas antennas . furlable antennas communication equipment folding structures satellite antennas space communication spacecraft antennas s (EXCLUDES DOMESTIC HEATING EQUIPMENT)	fusibiliting GS  RT of tusiform USE	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads wicks  ty thermodynamic properties thermophysical properties fusibility physical properties resistance welding a shapes cones  (USE OF A MORE SPECIFIC TERM IS	RT fusion- GS RT	nuclear fusion  welding welding fusion welding electric welding are welding electroslag welding electroslag welding electroslag welding electron beam weld
GS  RT   furfuryl  RT   furlable  GS  RT  furnace  SN	. cyclic compounds . heterocyclic compounds . heterocyclic compounds furans turans tetrahydrofuran chemical compounds plastics solvents thiophenes  alcohol aldehydes aromatic compounds  antennas antennas . furlable antennas communication equipment folding structures satellite antennas space communication spacecraft antennas  (EXCLUDES DOMESTIC HEATING EQUIPMENT) heating equipment	fusibiliting GS  RT of tusiform USE	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads wicks  ty thermodynamic properties thermodynamic properties thermophysical properties oresistance welding a shapes cones  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS	GS fusion- GS RT	nuclear fusion  welding welding fusion welding electric welding general genera
GS  RT   furfuryl  RT   furlable  GS  RT  furnace  SN	. cyclic compounds . heterocyclic compounds . heterocyclic compounds . furans turans tetrahydrofuran chemical compounds plastics solvents thiophenes  alcohol aldehydes aromatic compounds  antennas antennas antennas communication equipment folding structures satellite antennas space communication spacecraft antennas s (EXCLUDES DOMESTIC HEATING EQUIPMENT) heating equipment furnaces	fusibiliting GS  RT of tusiform USE	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads wicks  by thermodynamic properties thermophysical properties fusibility physical properties resistance welding a shapes cones  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)	GS fusion- GS RT fuzzy s	nuclear fusion  welding welding fusion welding electric welding general space and space are welding general space are welding gusion (melting) pressure welding spot welds  fission hybrid reactors nuclear reactors fusion-fission hybrid reactors fusion reactors nuclear fusion preactors ereactors
GS  RT   furfuryl  RT   furlable  GS  RT  furnace  SN	. cyclic compounds . heterocyclic compounds . heterocyclic compounds furans tetrahydrofuran chemical compounds plastics solvents thiophenes  alcohol aldehydes aromatic compounds  antennas antennas . furlable antennas communication equipment folding structures satellite antennas space communication spacecraft antennas  (EXCLUDES DOMESTIC HEATING EQUIPMENT) heating equipment . furnaces electric furnaces	fusibiliti GS RT ∘ fusiform USE ∞ fusion SN DEF	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads wicks  ty thermodynamic properties thermophysical properties fusibility physical properties resistance welding a shapes cones  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) The combining of atoms and conse-	fusion- GS RT fuzzy s	nuclear fusion  welding welding fusion welding electric welding are welding egas tungsten are welding electroslag welding electroslag welding electron beam welding fusion fwelding fusion hybrid reactors fusion hybrid reactors fusion reactors fusion reactors electron welding electron beam welding electron be
GS  RT   furfuryl  RT   furlable  GS  RT  furnace  SN	. cyclic compounds . heterocyclic compounds . heterocyclic compounds furans tetrahydrofuran chemical compounds plastics solvents thiophenes  alcohol aldehydes aromatic compounds  antennas antennas . furlable antennas communication equipment folding structures satellite antennas space communication spacecraft antennas s (EXCLUDES DOMESTIC HEATING EQUIPMENT) heating equipment . furnaces . electric furnaces . image furnaces	fusibiliti GS  RT ∘  fusiform USE  ∞ fusion SN  DEF quent re	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads wicks  ty thermodynamic properties thermophysical properties fusibility physical properties resistance welding the shapes cones  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) The combining of atoms and consected as the standard of the shapes cones of energy.	fusion- GS RT fuzzy s DEF provision	nuclear fusion  welding welding fusion welding electric welding are welding gestimates are welding electroslag welding electroslag welding electron beam welding electron bearding fusion (melting) electron fusion fusion hybrid reactors electron fusion electron electron electron welling electron welling electron fusion electron electron electron welling electron fusion electron
GS  RT   furfuryl  RT   furlable  GS  RT  furnace  SN	. cyclic compounds . heterocyclic compounds . heterocyclic compounds furans tetrahydrofuran chemical compounds plastics solvents thiophenes  alcohol aldehydes aromatic compounds  antennas antennas . furlable antennas communication equipment folding structures satellite antennas space communication spacecraft antennas  (EXCLUDES DOMESTIC HEATING EQUIPMENT) heating equipment . furnaces . electric furnaces . image furnaces . solar furnaces	fusibiliti GS RT ∘ fusiform USE ∞ fusion SN DEF	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads wicks  ty thermodynamic properties thermodynamic properties thermophysical properties thermophysical properties resistance welding a shapes cones  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) The combining of atoms and conse- elease of energy. fuel production	fusion- GS RT fuzzy s DEF provisio constru	nuclear fusion  welding welding fusion welding electric welding general space and spac
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GS  RT   furfuryl  RT   furlable  GS  RT  furnace  SN	. cyclic compounds . heterocyclic compounds . heterocyclic compounds furans turans tetrahydrofuran chemical compounds plastics solvents thiophenes  alcohol aldehydes aromatic compounds  antennas antennas . furlable antennas communication equipment folding structures satellite antennas space communication spacecraft antennas space craft antennas space communication spacecraft equipment folding structures . electric furnaces . electric furnaces . solar furnaces . vacuum furnaces boilers	fusibiliti GS  RT ∘  fusiform USE  ∞ fusion SN  DEF quent re	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads wicks  by thermodynamic properties thermophysical properties fusibility physical properties resistance welding a shapes cones  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) The combining of atoms and consected as effective fusion fusion fusion (reactor) laser fusion	fusion- GS RT fuzzy s DEF provisio constru	nuclear fusion  welding welding fusion welding electric welding are welding are welding electroslag welding electroslag welding electroslag welding electron beam welding electr
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furfuryl RT ~ furlable GS RT	. eyclic compounds . heterocyclic compounds . heterocyclic compounds furans turans tetrahydrofuran chemical compounds plastics solvents thiophenes  alcohol aldehydes aromatic compounds  antennas antennas . furlable antennas communication equipment folding structures satellite antennas space communication spacecraft antennas space communication spacecraft antennas  (EXCLUDES DOMESTIC HEATING EQUIPMENT) heating equipment . furnaces . electric furnaces . image furnaces . solar furnaces . vacuum furnaces boilers burners chemical engineering	fusibiliti GS  RT ∘  fusiform USE  ∞ fusion SN  DEF quent re	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads wicks  by thermodynamic properties thermophysical properties fusibility physical properties resistance welding a shapes cones  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) The combining of atoms and consected as effective fusion fusion fusion (reactor) laser fusion	fusion- GS RT fuzzy s DEF provisio constru	nuclear fusion  welding welding fusion welding electric welding are welding are welding electroslag welding electroslag welding electroslag welding electron beam welding electr
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furfuryl RT ~ furlable GS RT furnace SN GS	. eyclic compounds . heterocyclic compounds . heterocyclic compounds furans turans tetrahydrofuran chemical compounds plastics solvents thiophenes  alcohol aldehydes aromatic compounds  antennas antennas . furlable antennas communication equipment folding structures satellite antennas space communication spacecraft antennas space communication spacecraft antennas  (EXCLUDES DOMESTIC HEATING EQUIPMENT) heating equipment . furnaces . electric furnaces . lectric furnaces . solar furnaces . vacuum furnaces boilers burners chemical engineering chemical reactors chimneys combustion chambers controlled atmospheres	fusibiliting GS  RT of tusiform USE  fusion SN  DEF quent real RT  fusion	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads wicks  ty thermodynamic properties thermophysical properties fusibility physical properties resistance welding the shapes cones  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) The combining of atoms and consected or energy. fuel production inertial fusion (reactor) laser fusion  (melting) phase transformations melting	fusion- GS RT fuzzy s DEF provision constru RT fuzzy s DEF	nuclear fusion  welding welding fusion welding electric welding are welding electroslag welding electroslag welding electroslag welding electron beam welding electron bearding electron bearding electron bearding fusion (melting) electron fusion hybrid reactors fusion reactors fusion reactors fusion reactors fusion reactors ets  Mathematical models coupled with a en for the effect of human factors and etion process and experience. algorithms fuzzy systems membership functions set theory  ystems Systems that involve fuzzy sets. algorithms
furfuryl RT ~ furlable GS RT furnace SN GS	. eyclic compounds . heterocyclic compounds . heterocyclic compounds furans turans tetrahydrofuran chemical compounds plastics solvents thiophenes  alcohol aldehydes aromatic compounds  antennas antennas . furlable antennas communication equipment folding structures satellite antennas space communication spacecraft antennas  (EXCLUDES DOMESTIC HEATING EQUIPMENT) heating equipment . furnaces . electric furnaces . image furnaces . solar furnaces . vacuum furnaces boilers burners chemical engineering chemical reactors chimneys combustion chambers controlled atmospheres cupolas	fusibiliting GS  RT of tusiform USE  Fusion SN  DEF quent runner RT  fusion GS	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads wicks  ty thermodynamic properties thermophysical properties thermophysical properties oresistance welding to shapes cones  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) The combining of atoms and consected of energy. fuel production inertial fusion (reactor) laser fusion liquid-solid interfaces nuclear fusion (melting) phase transformations melting musical properties musical prope	fusion- GS RT fuzzy s DEF provision constru RT fuzzy s DEF	nuclear fusion  welding welding fusion welding electric welding electric welding electrosung electrosung electroslag welding electroslag welding electron beam welding electron bearing electron beam welding electron bearing electron beam welding electron bearing electron elect
furfuryl RT ~ furlable GS RT furnace SN GS	. cyclic compounds . heterocyclic compounds . heterocyclic compounds furans turans tetrahydrofuran chemical compounds plastics solvents thiophenes  alcohol aldehydes aromatic compounds  antennas antennas . furlable antennas communication equipment folding structures satellite antennas space communication spacecraft antennas  (EXCLUDES DOMESTIC HEATING EQUIPMENT) heating equipment . furnaces . electric furnaces . image furnaces . solar furnaces . vacuum furnaces burners chemical engineering chemical reactors chimneys combustion chambers controlled atmospheres cupolas drying apparatus	fusibiliting GS  RT of tusiform USE  fusion SN  DEF quent real RT  fusion	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads wicks  ty thermodynamic properties . thermophysical properties . fusibility physical properties resistance welding a shapes cones  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) The combining of atoms and conse- elease of energy. fuel production inertial fusion (reactor) laser fusion liquid-solid interfaces nuclear fusion  (melting) phase transformations . melting fusion (melting) adhesion	fusion- GS RT fuzzy s DEF provision constru RT fuzzy s DEF	nuclear fusion  welding welding fusion welding electric welding are plasma are welding are electroslag welding are electron beam welding are electron beam welding are sawelding are brazing are low temperature brazing are laser welding fusion (melting) pressure welding spot welds  fission hybrid reactors nuclear reactors fusion reactors fusion reactors nuclear fission nuclear fission nuclear fusion are reactors ets  Mathematical models coupled with a for the effect of human factors and ction process and experience. algorithms fuzzy systems membership functions set theory  ystems  Systems that involve fuzzy sets. algorithms fuzzy sets membership functions
furfuryl RT ~ furlable GS RT furnace SN GS	. cyclic compounds . heterocyclic compounds . heterocyclic compounds . furans turans tetrahydrofuran chemical compounds plastics solvents thiophenes  alcohol aldehydes aromatic compounds  antennas antennas . furlable antennas communication equipment folding structures satellite antennas space communication spacecraft antennas  (EXCLUDES DOMESTIC HEATING EQUIPMENT) heating equipment . furnaces . electric furnaces . image furnaces . solar furnaces . vacuum furnaces boilers burners chemical engineering chemical reactors chimneys combustion chambers controlled atmospheres cupolas drying apparatus extraction	fusibiliting GS  RT of tusiform USE  Fusion SN  DEF quent runner RT  fusion GS	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads wicks  by thermodynamic properties . thermophysical properties . fusibility physical properties resistance welding a shapes cones  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) The combining of atoms and conse- elease of energy. fuel production inertial fusion (reactor) laser fusion liquid-solid interfaces nuclear fusion  (melting) phase transformations . melting . fusion (melting) adhesion frit	fusion- GS RT fuzzy s DEF provision constru RT fuzzy s DEF	nuclear fusion  welding welding fusion welding electric welding arc welding brazing arc welding arc welding braser weldi
furfuryl RT ~ furlable GS RT furnace SN GS	. eyclic compounds . heterocyclic compounds . heterocyclic compounds furans turans tetrahydrofuran chemical compounds plastics solvents thiophenes  alcohol aldehydes aromatic compounds  antennas antennas . furlable antennas communication equipment folding structures satellite antennas space communication spacecraft antennas s  (EXCLUDES DOMESTIC HEATING EQUIPMENT) heating equipment . furnaces . electric furnaces . image furnaces . solar furnaces . vacuum furnaces boilers burners chemical engineering chemical reactors chimneys combustion chambers controlled atmospheres cupolas drying apparatus extraction fluidized bed processors	fusibiliting GS  RT of tusiform USE  Fusion SN  DEF quent runner RT  fusion GS	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads wicks  ty thermodynamic properties thermophysical properties fusibility physical properties resistance welding the shapes cones  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) The combining of atoms and consected of energy. fuel production inertial fusion (reactor) laser fusion  (melting) phase transformations melting fit fusion (melting) adhesion firit fusion welding	fusion- GS RT fuzzy s DEF provision constru RT fuzzy s DEF	nuclear fusion  welding welding fusion welding electric welding are welding guident gu
furfuryl RT ~ furlable GS RT furnace SN GS	. cyclic compounds . heterocyclic compounds . heterocyclic compounds . furans turans tetrahydrofuran chemical compounds plastics solvents thiophenes  alcohol aldehydes aromatic compounds  antennas antennas . furlable antennas communication equipment folding structures satellite antennas space communication spacecraft antennas  (EXCLUDES DOMESTIC HEATING EQUIPMENT) heating equipment . furnaces . electric furnaces . image furnaces . solar furnaces . vacuum furnaces boilers burners chemical engineering chemical reactors chimneys combustion chambers controlled atmospheres cupolas drying apparatus extraction	fusibiliting GS  RT of tusiform USE  fusion SN  DEF quent runner RT  fusion GS  RT	electric fuses fuses (ordnance) warheads  ordnance) ammunition caps (explosives) detonators fuses initiators (explosives) warheads wicks  by thermodynamic properties . thermophysical properties . fusibility physical properties resistance welding a shapes cones  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) The combining of atoms and conse- elease of energy. fuel production inertial fusion (reactor) laser fusion liquid-solid interfaces nuclear fusion  (melting) phase transformations . melting . fusion (melting) adhesion frit	fusion- GS RT fuzzy s DEF provision constru RT fuzzy s DEF	nuclear fusion  welding welding fusion welding electric welding arc welding brazing arc welding arc welding braser weldi

# FV-12A aircraft

∞ systems systems analysis uncertain systems

FV-12A aircraft
GS attack aircraft
. fighter aircraft
. . FV-12A aircraft

V/STOL aircraft FV-12A aircraft RT ∞ aircraft
∞ military aircraft

FW-H equation (added January 2007) USE Ffowcs Williams-Hawkings equation

G force			monoplanes	RT	doped crystals
USE	acceleration (physics)	RT a	. <b>GA-5 aircraft</b> ∞ aircraft		eclogite ferrites
G stars		nı «	delta wings		gadolinium
GS	celestial bodies		-		laser materials
	. stars	<b>gabbro</b> GS	rocks		lasers magnetostatic amplifiers
	sun	do	. igneous rocks		semiconductor lasers
RT	dwarf stars		gabbro		semiconductors (materials)
	F stars giant stars	RT	anorthosite lunar rocks	g0.g00	
	main sequence stars		iunai rocks	<i>gages</i> USE	measuring instruments
	stellar spectra	Gabon			
G-1 airc	eraft	GS	nations . <b>Gabon</b>		pothesis
UF	Navion G-1 aircraft	RT	Africa		ed June 1990) The hypothesis that the Earth's atmo
	Navion Rangemaster aircraft	Oahan	Cla	sphere,	biosphere, and its living organisms be
GS	Rangemaster aircraft general aviation aircraft	Gabor t	ed February 1998)		a single system striving to maintain conducive to the existance of life.
	. G-1 aircraft		image filters		atmospheric composition
	light aircraft	DT	. Gabor filters		atmospheric temperature
	. <b>G-1 aircraft</b> monoplanes	RT	computer vision ∘ filters		biochemistry
	. G-1 aircraft		Gabor transformation		biological evolution biosphere
	Navion aircraft		image analysis		ecology
	. G-1 aircraft		image processing low pass filters		ecosystems
	passenger aircraft . G-1 aircraft		neural nets		greenhouse effect
	transport aircraft		spatial filtering	gain (an	nplification)
БТ	. G-1 aircraft		textures		amplification
HI≪	aircraft	Gabor	transformation	it	
G-91 aiı			ed February 1998)	gait (adde	ed September 2001)
	Fiat G-91 aircraft	GS	transformations (mathematics)		The pace or manner in which a legge
GS	attack aircraft . fighter aircraft	RT	. Gabor transformation Fourier transformation		or robot moves from one place to ar
	G-91 aircraft		Gabor filters	other. GS	locomotion
	Fiat aircraft		holography	ao	. gait
	. <b>G-91 aircraft</b> jet aircraft		image processing	RT	leg (anatomy)
	. G-91 aircraft		signal analysis wavelet analysis		robot dynamics
	monoplanes		•		running walking
DT	. <b>G-91 aircraft</b> ∍aircraft	<b>gadoli</b> n GS	ilum chemical elements		walking machines
nı∝	aliciali	ds	. rare earth elements		hulas
G-95/4 a			gadolinium	galactic	ed August 1988)
UF	Fiat G-95/4 aircraft		gadolinium isotopes		central bulge (galaxies)
GS	attack aircraft . fighter aircraft		metals . rare earth elements		nuclear bulge (galaxies)
	G-95/4 aircraft		gadolinium	RT	galactic nuclei galactic structure
	Fiat aircraft		gadolinium isotopes		galaxies
	. <b>G-95/4 aircraft</b> jet aircraft	RT	gadolinium-gallium garnet		Milky Way Galaxy
	. G-95/4 aircraft	qadolin	ium alloys		spiral galaxies
	monoplanes		Mixtures of gadolinium, a rare earth		x ray sources
	. G-95/4 aircraft		vith other metals.	galactic	clusters
	supersonic aircraft . G-95/4 aircraft	GS	alloys . rare earth alloys	SN	(RESTRICTED TO CLUSTERS OF
	V/STOL aircraft		gadolinium alloys		GALAXIES; EXCLUDES OPEN CLUSTERS)
	G-95/4 aircraft	RT	metals	UF	galaxy groups
RT∝	aircraft	nadolin	iium isotopes	GS	celestial bodies . galactic clusters
G-222 a	ircraft	GS	chemical elements		local group (astronomy)
	Fiat G-222 aircraft		. nuclides	DT	Virgo galactic cluster
GS	Fiat aircraft . G-222 aircraft		isotopes gadolinium isotopes	RT	agglomeration clusters
	jet aircraft		. rare earth elements		cooling flows (astrophysics)
	. turboprop aircraft		gadolinium		disk galaxies
	G-222 aircraft		gadolinium isotopes		elliptical galaxies
	monoplanes . G-222 aircraft		metals . rare earth elements		large-scale structure of the universe metallicity
	passenger aircraft		gadolinium		missing mass (astrophysics)
	G-222 aircraft		gadolinium isotopes		protogalaxies
	transport aircraft . G-222 aircraft	nadolin	iium-gallium garnet		star clusters star distribution
	V/STOL aircraft		ed August 1990)		stellar systems
	. G-222 aircraft		A semiconducting crystalline com-		Sunyaev-Zeldovich effect
RT ∝	aircraft	pound ι terial.	used primarily as a solid-state laser ma-	galactic	ocemic rave
GA-5 ai	rcraft	UF	GGG (garnet)		cosmic rays Energetic particles that come from out
UF	Gloster GA-5 aircraft	GS	gallium compounds	side the	solar systems. They generally com
00	Javelin aircraft		. gadolinium-gallium garnet		hin our galaxy.
GS	attack aircraft . fighter aircraft		minerals . garnets	GS	extraterrestrial radiation galactic radiation
	GA-5 aircraft		gadolinium-gallium garnet		. galactic cosmic rays
	Hawker Siddeley aircraft		silicon compounds		ionizing radiation
	. GA-5 aircraft jet aircraft		. silicates garnets		. cosmic rays galactic cosmic rays
	. GA-5 aircraft		gadolinium-gallium garnet	RT	Advanced Composition Explorer
					•

	energetic particles		Hubble diagram		Galatea
	galactic winds		infrared cirrus (astronomy)	RT	Neptune (planet)
	solar activity effects		interstellar radiation		
	solar wind		irregular galaxies	galaxies	1
	Colai Willa			DEF	
			mass to light ratios		Vast assemblages of stars or nebulae,
	evolution		nonthermal radiation		ng island universes separated from
UF	galaxy formation	~	radiation		ch assemblages by great distances.
GS	evolution (development)		radiative transfer	GS	celestial bodies
	. galactic evolution		Solar Radiation 1 satellite		. galaxies
RT	astrophysics		Solar Radiation 3 satellite		active galaxies
	big bang cosmology		stellar radiation		Markarian galaxies
	cooling flows (astrophysics)		Uhuru satellite		radio galaxies
	cosmology				Seyfert galaxies
	dark matter	Galactic	Radiation Exp Background sats		compact galaxies
	disk galaxies		GREB satellites		disk galaxies
	galactic mass	002			dwarf galaxies
		golootio	radio wayaa		
	gravitational instability		radio waves		elliptical galaxies
	large-scale structure of the universe	DEF	Radio waves emanating from our gal-		interacting galaxies
	protogalaxies	axy.			irregular galaxies
	ring galaxies	GS	electromagnetic radiation		Maffei galaxies
	star distribution		. radio waves		Magellanic clouds
	star formation rate		extraterrestrial radio waves		peculiar galaxies
	stellar evolution		galactic radio waves		ring galaxies
	stellar mass accretion		North Polar Spur (astronomy)		shell galaxies
			extraterrestrial radiation		spiral galaxies
galactio	halos		. extraterrestrial radio waves		Andromeda Galaxy
-	ed December 1992)		galactic radio waves		barred galaxies
	,				
	The tenuous, spherical cloud sur-		North Polar Spur (astronomy)		Milky Way Galaxy
	g spiral galaxies. It is the locus of old		. galactic radiation		protogalaxies
stars an	nd globular clusters. Halos appear to be		galactic radio waves		starburst galaxies
required	d, at least to some extent, for the stability		North Polar Spur (astronomy)		Virgo galactic cluster
	galaxies.	RT	cosmic noise	RT	BL Lacertae objects
RT	dark matter		radio jets (astronomy)	111	,
n i			radio jets (astronomy)		faint objects
	disk galaxies				galactic bulge
	galactic structure	galactic	rotation		galactic structure
	globular clusters	GS	gyration		Gum nebula
	halos		. rotation		Hubble constant
	intergalactic media		. galactic rotation		
		DT			Hubble diagram
	interstellar gas	RT	corotation		metallicity
	massive compact halo objects		disk galaxies		nebulae
	missing mass (astrophysics)		hydrogen clouds		Orion nebula
	molecular clouds		irregular galaxies		quasars
	Population II stars		stellar motions		radio sources (astronomy)
	spiral galaxies		stellar systems		
			•		red shift
	star distribution		Tully-Fisher relation		star clusters
			velocity distribution		star formation rate
galactic	magnetic fields				stars
USE	interstellar magnetic fields	galactic	structure		stellar systems
		RT	barred galaxies		otoliai oyotomo
aclostic	, maaa			0-1	-1
galactic			compact galaxies	Galaxy a	
DEF	The total amount of matter contained		corotation	USE	C-5 aircraft
in a gala	axy.		density wave model		
GS	mass		disk galaxies	galaxy fo	ormation
	. galactic mass		galactic bulge		ed May 1997)
RT	galactic evolution		galactic halos	,	galactic evolution
	•		•	OOL	galactic evolution
	galactic structure		galactic mass		
	mass distribution		galaxies	galaxy g	roups
	stellar mass		interacting galaxies	USE	galactic clusters
			irregular galaxies		
galactic	nuclei		missing mass (astrophysics)	galaxy ir	nteraction
GS	galactic nuclei				interacting galaxies
ao			peculiar galaxies	OOL	interacting galaxies
	. active galactic nuclei		ring galaxies		
RT	absorption spectra		shell galaxies		method
	accretion disks		stellar systems	RT	linearization
	active galaxies	~	structures		meshfree methods
	disk galaxies			∞	methodology
	galactic bulge	galactic	winds		3,
		•		Galiloan	satellites
	radio jets (astronomy)		ed May 1994)		
	radio sources (astronomy)	GS	extraterrestrial radiation		The four largest and brightest satellites
	Seyfert galaxies		. galactic radiation	of Jupite	r (Io, Europa, Ganymede, and Callisto).
	starburst galaxies		. galactic winds	GS	celestial bodies
	3 g	RT	galactic cosmic rays		. natural satellites
galactic	radiation				Jupiter satellites
-			space plasmas		
GS	extraterrestrial radiation		stellar winds		Galilean satellites
	. galactic radiation				Callisto
	. galactic cosmic rays	galacto	se		Europa
	galactic radio waves	GS	organic compounds		Ganymede
	North Polar Spur (astronomy)	30	. carbohydrates		lo
			•	DT	
	galactic winds		sugars	HI	Charon
RT	active galactic nuclei		monosaccharides		Galileo project
	active galaxies		hexoses		Galileo spacecraft
	brightness distribution		galactose		icy satellites
			3		
	corpuscular radiation	0-1-1-			Jupiter (planet)
	cosmic noise	Galatea			Triton
	cosmic rays		ed July 1995)		
	cosmic x rays	DEF	A natural satellite of Saturn, orbiting at	Galileo r	mission
	electromagnetic radiation		distance of 62,000 kilometers.		Galileo project
	gamma ray astronomy	GS	celestial bodies		P <b>J</b> - <del></del> -
		as		Galilac	nrohe
	gamma ray bursts		. natural satellites	Galileo	•
	gamma ray sources (astronomy)		Neptune satellites	DEF	The NASA Jupiter atmospheric entry

probe to be deployed from the Galileo spacecraft. The probe will make in situ measurements while descending from a parachute.

GS interplanetary spacecraft

. Jupiter probes

Galileo probe

unmanned spacecraft

. space probes

. Jupiter probes

Galileo probe

RT Jupiter (planet)

∞ probes

∞ spacecraft

#### Galileo project

A NASA program to probe Jupiter, its environment and natural satellites. The spacecraft was placed in Earth orbit by the Space Transportation System (STS) on October 18, 1989. Used for Galileo mission.

Galileo mission

programs

. NASA programs

. . NASA space programs . . . Galileo project

. projects

Galileo project

. space programs. NASA space programs

Galileo project

Amphitrite asteroid atmospheric entry

flyby missions

Galilean satellites

Jupiter atmosphere Jupiter probes

#### Galileo spacecraft

DEF A NASA orbiter spacecraft which will carry the Galileo probe and, following deployment at Jupiter, will become an orbiting platform for remote sensing of Jupiter and its satellites.

GS interplanetary spacecraft

. Jupiter probes

Galileo spacecraft

unmanned spacecraft

. space probes

. . Jupiter probes

Galileo spacecraft

flyby missions

Galilean satellites

Gaspra asteroid Ida asteroid

Jupiter (planet)

∞ missions

∞ spacecraft

#### gall

digestive system gastrointestinal system secretions

#### gallamine triethiodide

ethers

gallamine triethiodide

halogen compounds

. iodine compounds

.. iodides

. . gallamine triethiodide

organic compounds

. amines

. . gallamine triethiodide

#### gallates

gallium compounds

gallates

. . sodium gallates

#### gallium

chemical elements

. gallium

. gallium isotopes metals

. gallium

. . gallium isotopes

## gallium alloys

allovs GS

gallium alloys

aluminum allovs

indium alloys superconductivity

#### gallium antimonides

GS antimony compounds

antimonides

. gallium antimonides

gallium compounds

gallium antimonides

#### gallium arsenide lasers

GS electronic equipment

. solid state devices

. . semiconductor devices

. . . semiconductor lasers

. . . . gallium arsenide lasers

. . solid state lasers

. gallium arsenide lasers

stimulated emission devices

. lasers

. . semiconductor lasers

... gallium arsenide lasers

. . solid state lasers

. gallium arsenide lasers

aluminum gallium arsenide lasers injection lasers

stimulated emission waveguide lasers

#### gallium arsenides

GS arsenic compounds

. arsenides

. . gallium arsenides

. aluminum gallium arsenides

indium gallium arsenides gallium compounds

gallium arsenides

. . aluminum gallium arsenides

indium gallium arsenides

antisite defects

Bragg reflectors Gunn diodes

heterojunction devices

injection lasers

MODFETS

negative conductance

negative electron affinity negative resistance devices

quantum well infrared photodetectors

Schottky diodes semiconductor lasers

superlattices transferred electron devices

# gallium compounds

gallium compounds

gadolinium-gallium garnet

gallates

. sodium gallates

gallium antimonides

gallium arsenides

. . aluminum gallium arsenides

indium gallium arsenides

gallium nitrides

gallium oxides

gallium phosphides

gallium selenides

RT ∞ chemical compounds ∞ Group 3A compounds

∞ metal compounds

# gallium isotopes

GS chemical elements

. gallium

. . gallium isotopes . nuclides

. . isotopes

. gallium isotopes metals

. gallium

. . gallium isotopes

### gallium nitrides

gallium compounds gallium nitrides

nitrogen compounds

. nitrides . . metal nitrides

... gallium nitrides

RT semiconductors (materials)

#### gallium oxides

GS chalcogenides

. oxides

. . metal oxides

. gallium oxides gallium compounds

gallium oxides

#### gallium phosphides

GS gallium compounds
gallium phosphides
phosphorus compounds

phosphides

. . gallium phosphides

# gallium selenides

GS chalcogenides

. selenides

. gallium selenides gallium compounds

gallium selenides selenium compounds

. selenides

. . gallium selenides

## galvanic cells

USE electrolytic cells

## galvanic skin response

electrodermal response

GS responses

. galvanic skin response

electrical resistance

galvanizing

USE zinc coatings

# galvanomagnetic effects

galvanomagnetism galvanomagnetic effects

. Hall effect

. Nernst-Ettingshausen effect . quantum Hall effect

RT ∞ effects

galvanomagnetism

USE galvanomagnetic effects

# galvanometers

measuring instruments . galvanometers

ammeters

electrometers

micromilliammeters millivoltmeters thermocouple pyrometers

Gambia

nations

GS Gambia Africa

game theory DEF Application of mathematics to a game,

business situation, or other problem to maximize gain or minimize loss. game theory

saddle points (game theory) decision theory

deployment

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

games RT COS-B satellite war games x ray astronomy galactic radiation games Gamma Ray Astronomy Explorer gamma ray astronomy (added October 1998) USE Explorer 11 satellite games radio sources (astronomy) differential games gamma ray beams spectral counterparts (astronomy) . pursuit-evasion games GS beams (radiation) Swift observatory war games . gamma ray beams x ray sources electromagnetic radiation . gamma ray beams zero sum games control theory gamma ray spectra DEF The energy distribution of gamma rays game theory ionizing radiation optimization emitted by nuclei. gamma ray beams nuclear radiation GS spectra gametocytes . radiation spectra gamma ray beams oocytes . . electromagnetic spectra photon beams spermatocytes . gamma ray spectra radioactive decay cells (biology) emission spectra . gametocytes ionizing radiation gamma ray bursts

DEF Short (about 0. 1 - 4 sec.) intense low-energy (about 0. 1 - 1. 2 MeV) bursts . . eggs . . . zygotes gamma ray spectrometers recorded by the Vela satellite system in 1967. Their isotropic distribution suggests an extraga-DEF Instruments for deriving the physical . . spermatozoa constants of materials by using induced gamma spermatogenesis lactic origin, but a galactic disk origin cannot be ruled out. Used for cosmic gamma ray bursts. radiation as the emission source. gamma function measuring instruments GS analysis (mathematics) . spectrometers cosmic gamma ray bursts . . gamma ray spectrometers 2001 Mars Odyssey . complex variables GS bursts gamma function gamma ray bursts functions (mathematics) anticoincidence detectors electromagnetic radiation gamma function optical measurement . gamma rays factorials scintillating fibers gamma ray bursts statistical distributions extraterrestrial radiation Solar Maximum Mission spectra gamma ray bursts gamma globulin ionizing radiation spectrum analysis GS antibodies . cosmic rays gamma globulin gamma ray telescopes . gamma ray bursts biopolymers DEF Special telescopes for the observation (and recording) of astronomical phenomena in the gamma ray spectrum. gamma rays proteins . gamma ray bursts . . globulins nuclear radiation . . gamma globulin . gamma rays GS telescopes organic compounds . gamma ray bursts . gamma ray telescopes . proteins big bang cosmology . . Fermi Gamma-ray Space . . globulins bremsstrahlung Telescope . . . gamma globulin Cerenkov radiation cosmic rays cosmic x rays gamma ray astronomy gamma radiation Gamma Ray Observatory galactic radiation USE gamma rays scintillating fibers gamma ray astronomy interstellar radiation Swift observatory gamma ray absorptiometry nuclear particles density measurement gamma rays radiant flux density . gamma ray absorptiometry absorption spectra (EMITTED BY NUCLEI)

Quantums of electromagnetic radiation soft gamma repeaters starquakes stellar radiation emitted by nuclei, each such photon being emitdensitometers ted as the result of a quantum transition between two energy levels of the nucleus. Gamma electromagnetic absorption Swift observatory energy absorption x ray astronomy rays have energies usually between 10 thousand electron volts and 10 million electron volts measurement photon absorptiometry gamma ray lasers with correspondingly short wavelengths and high frequencies. Used for gamma radiation. radiation absorption DEF Stimulated emission devices producing coherent gamma radiation. gamma ray absorption gamma radiation GS stimulated emission devices electromagnetic radiation GS energy absorption . lasers . radiation absorption . gamma rays . gamma ray lasers . . electromagnetic absorption . gamma ray bursts coherent light . gamma ray absorption ionizing radiation light transmission RT ∞ absorption . gamma rays optical pumping electromagnetic properties . gamma ray bursts pulsed radiation electromagnetic radiation nuclear radiation ionizing radiation . gamma rays **Gamma Ray Observatory** nuclear radiation . gamma ray bursts DEF A late 1980s NASA mission to explore photon absorptiometry bremsstrahlung the gamma ray window to the universe from 0. Cerenkov radiation 06 MeV to 30 GeV. cosmic rays gamma ray astronomy Compton Gamma Ray Observatory DEF Astronomy based on the detection of cosmic x rays artificial satellites gamma ray emission and interactions from sudecay . scientific satellites emission spectra pernova remnants, neutron stars, flare stars, . . astronomical satellites galactic core and disc, black holes, etc. flux (rate) ... Gamma Ray Observatory GS astronomy flux density observatories gamma ray astronomy monochromatic radiation . astronomical observatories astrophysics Mossbauer effect . . astronomical satellites cosmic x rays photomagnetic effects ... Gamma Ray Observatory energy spectra Fermi Gamma-ray Space Telescope photons gamma ray telescopes ∞ radiation ŏGO galactic radiation radiation effects spaceborne astronomy gamma ray bursts gamma ray sources (astronomy) gamma ray telescopes radiation shielding

spaceborne telescopes

. soft gamma repeaters

(LIMITED TO ASTRONOMICAL SOURCES; EXCLUDES RADIATION DEVICES)

gamma ray sources (astronomy)

gamma ray sources (astronomy) (added October 1997)

SN

radioactive decay radioactivity

scintillating fibers

transverse oscillation transverse waves

Wind/GGS spacecraft

∞ rays

Granat satellite HEAO 4

radio astronomy

soft gamma repeaters Swift observatory

x rays	. <b>garments</b> RT flight clothing	turbine engines
Gamma-ray Large Area Space Telescope	suits	
(added August 2008)	vests	gas chromatography
USE Fermi Gamma-ray Space Telescope		DEF A method of chemical analysis involv-
	garnets	ing the separation of volatile constituents of a
ganglia	DEF Groups of minerals that are silicates of	mixture by means of gas flow entrainment, va- por pressure differences, and affinity of specific
GS anatomy	cubic crystalline form.	compounds for various liquids or solid materials.
. nervous system nerves	GS minerals	GS chemical tests
ganglia	. garnets	. chemical analysis
RT cells (biology)	gadolinium-gallium garnet	chromatography
neuroglia	yttrium-aluminum garnet yttrium-iron garnet	gas chromatography
neurophysiology	silicon compounds	RT adsorption
	. silicates	paper chromatography
gantries	garnets	sorption
USE gantry cranes	gadolinium-gallium garnet	thin layer chromatography
antur arana	yttrium-aluminum garnet	
gantry cranes  DEF Large cranes mounted on platforms	yttrium-iron garnet	gas composition
that usually run back and forth on parallel tracks	RT eclogite	GS composition (property)
astride the work area. Used for gantries.	lasers	gas composition
UF gantries	GARP	carbon dioxide concentration
GS handling equipment	USE Global Atmospheric Research	RT atmospheric composition
. cranes	Program	atom concentration chemical composition
gantry cranes		Dalton law
RT ground support equipment	GARP Atlantic Tropical Experiment	expired air
launching pads	UF GATE (experiment)	ionospheric composition
launching sites	GS programs	plasma composition
umbilical towers	. Global Atmospheric Research	polar gases
Ganymede	Program	. 0
DEF A satellite of Jupiter orbiting at a mean	GARP Atlantic Tropical	was as alad fact vacators
distance of 1,071,000 kilometers. Also called	Experiment	gas cooled fast reactors  GS nuclear reactors
Jupiter III.	RT Atlantic Ocean	. fast nuclear reactors
GS celestial bodies	intertropical convergent zones meteorology	gas cooled fast reactors
. natural satellites	NASA programs	. gas cooled reactors
icy satellites	oceanography	. gas cooled fast reactors
Ganymede	tropical meteorology	-
Jupiter satellites	tropical regions	and applied recetors
Galilean satellites <b>Ganymede</b>	weather forecasting	gas cooled reactors  UF GCR (reactors)
RT Callisto		GS nuclear reactors
Charon	gas analysis	gas cooled reactors
lo	GS chemical tests	experimental gas cooled reactors
Jupiter (planet)	. chemical analysis	gas cooled fast reactors
	gas analysis ozonometry	high temperature nuclear reactors
GAP (propellants)	Van Slyke method	high temperature gas cooled
USE glycidyl azide polymer	RT air sampling	reactors
gana	flame probes	KIWI reactors
gaps GS gaps	Hopcalite (trademark)	KIWI B reactors KIWI B-1 Reactor
. energy gaps (solid state)	mass spectrometers	KIWI B-1 Reactor
. spark gaps	∞ materials tests	Tory 2 reactor
RT ∞ arresters	oxygen analyzers	Tory 2-A reactor
∞ breakdown	qualitative analysis	Tory 2-C reactor
crack opening displacement	quantitative analysis	RT ∞ gas reactors
∞ holes	volumetric analysis	
openings	gas atomization	ann annlina
orifices	DEF Atomization of fluids by high velocity	gas cooling SN (COOLING WITH GAS)
passageways quantum wells	gas jets.	GS cooling
on tunnels	GS atomizing	. gas cooling
∞ turirieis	. gas atomization	RT coolants
gaps (geology)	RT aerosols	freon
DEF Ravines or gorges cut deeply through	collisions	heat exchangers
a mountain ridge, or between hills or mountains.	comminution	
Used for cols and passes.	liquid atomization	gas density
UF cols	particles	GS density (mass/volume)
passes		. gas density
GS geology	gas bags	RT atom concentration
. gaps (geology)	GS bags . <b>gas bags</b>	buoyancy
landforms	expandable structures	convective flow
. <b>gaps (geology)</b> RT mountains	. inflatable structures	gaseous diffusion
∞ ridges	gas bags	ideal gas
•• nages	RT balloons	probability density functions
garbage	high altitude balloons	rarefied gases real gases
GS wastes		roar gases
. garbage	gas bearings	
RT composting	UF air bearings	gas detectors
organic wastes (fuel conversion)	gas lubricated bearings	RT detection
sewers	GS bearings	∞ detectors
solid wastes	. gas bearings	haze detection
utilities waste disposal	RT antifriction bearings fluid films	identifying indicating instruments
waste disposal waste treatment	foil bearings	monitors
madio doddinont	high temperature lubricants	∞ probes
garments	squeeze films	∞ sensors
GS clothing	thrust bearings	smoke detectors

warning systems	DT	gas evolution		viscous flow
gas diffusion	RT	degassing outgassing	gas ger	nerator engines
USE gaseous diffusion		transpiration		engines
· ·				gas generators
gas discharge counters	gas ex	change		
USE counters		exchanging		nerators
gas discharge tubes		gas exchange		A device used to generate gases in the bry; a chemical plant for producing gas
gas discharge tubes	RT	oxygen production		al, for example, water gas. Used for gas
DEF Evacuated enclosures containing a				or engines.
gas at low pressure that permits the passage of		pansion	UF	
electricity through the gas upon application of sufficient voltage. Note: The tubes are usually	GS	expansion . gas expansion	RT	chemical reactors
provided with metal electrodes, but one form	RT	Joule-Thomson effect	۰	<ul> <li>generators</li> <li>pneumatic equipment</li> </ul>
permits an electrodeless discharge with induced		pressure reduction		pressurizing
voltage. Used for discharge tubes and gas dis-				vaporizers
charge counters.	qas ex	plosions		wave rotors
UF discharge tubes		explosions	ann ain	nt planete
gas discharge counters GS electron tubes		chemical explosions		nt planets The giant planets, Jupiter, Saturn, Ura-
. gas discharge tubes	RT	gas explosions		d Neptune, of our solar system.
ignitrons	ΠI	detonable gas mixtures detonation waves		celestial bodies
thyratrons		flame propagation		. planets
RT Faraday dark space		flammable gases		gas giant planets
		underground explosions		Jupiter (planet) Neptune (planet)
microwave oscillators				Saturn (planet)
microwave tubes	gas flo			Uranus (planet)
phototubes	UF	gaseous cavitation	RT	extrasolar planets
radiation counters	GS	fluid flow		Jupiter red spot
gas discharges		. gas flow air flow		Neptune atmosphere
GS electric current		air currents		planetary composition Saturn rings
. electric discharges		jet streams (meteorology)		solar system
Townsend discharge		meridional flow		Uranus atmosphere
gas discharges		vertical air currents		
toroidal discharge		continuum flow cooling flows (astrophysics)	gas gu	
ring discharge RT afterglows		equilibrium flow	GS	gas guns . light gas guns
cold cathode tubes		frozen equilibrium flow	RT	atmospheric entry
cold cathodes		shifting equilibrium flow		ballistics
electric arcs		free molecular flow	۰	∘ guns
electric sparks		Knudsen flow		hypervelocity guns
electrodeless discharges electron avalanche		molecular flow slip flow		wind tunnels
glow discharges		transition flow	gas hea	ating
lightning		nonequilibrium flow		heating
polar gases		pipe flow		. gas heating
polar gases				
	RT	air ducts	RT	arc heating
gas dissociation	RT	air ducts air jets	RT	kinetic heating
gas dissociation GS dissociation	RT	air ducts air jets compressible flow	RT	kinetic heating plasma heating
gas dissociation	RT	air ducts air jets	RT	kinetic heating
gas dissociation  GS dissociation  . gas dissociation  RT thermal dissociation	RT	air ducts air jets compressible flow critical flow Crocco-Lee theory gas path analysis	RT	kinetic heating plasma heating radiant heating
gas dissociation GS dissociation . gas dissociation RT thermal dissociation gas dynamics	RT	air ducts air jets compressible flow critical flow Crocco-Lee theory gas path analysis gasdynamic lasers		kinetic heating plasma heating radiant heating resistance heating thermal diffusion
gas dissociation GS dissociation gas dissociation RT thermal dissociation  gas dynamics GS mechanics (physics)	RT	air ducts air jets compressible flow critical flow Crocco-Lee theory gas path analysis gasdynamic lasers gaseous diffusion	gas inje	kinetic heating plasma heating radiant heating resistance heating thermal diffusion ection
gas dissociation GS dissociation . gas dissociation RT thermal dissociation  gas dynamics GS mechanics (physics) . fluid mechanics	RT	air ducts air jets compressible flow critical flow Crocco-Lee theory gas path analysis gasdynamic lasers gaseous diffusion gases	gas inje	kinetic heating plasma heating radiant heating resistance heating thermal diffusion ection injection
gas dissociation GS dissociation gas dissociation RT thermal dissociation  gas dynamics GS mechanics (physics)	RT	air ducts air jets compressible flow critical flow Crocco-Lee theory gas path analysis gasdynamic lasers gaseous diffusion	gas inje	kinetic heating plasma heating radiant heating resistance heating thermal diffusion ection
gas dissociation GS dissociation gas dissociation RT thermal dissociation  gas dynamics GS mechanics (physics) fluid mechanics fluid dynamics fluid dynamics fluid dynamics aerodynamics fluid dynamics fluid dynamics	RT	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	gas inje	kinetic heating plasma heating radiant heating resistance heating thermal diffusion  ection injection . fluid injection . gas injection formations
gas dissociation GS dissociation . gas dissociation RT thermal dissociation  gas dynamics GS mechanics (physics) . fluid mechanics fluid dynamics gas dynamics aerodynamics aerothermodynamics	RT	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	<b>gas inj</b> e GS	kinetic heating plasma heating radiant heating resistance heating thermal diffusion  ection injection . fluid injection . gas injection formations fuel injection
gas dissociation GS dissociation . gas dissociation RT thermal dissociation  gas dynamics GS mechanics (physics) . fluid mechanics fluid dynamics gas dynamics aerodynamics aerothermodynamics hypersonics	RT	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	<b>gas inj</b> e GS	kinetic heating plasma heating radiant heating resistance heating thermal diffusion  ection injection fluid injection . gas injection formations fuel injection inflating
gas dissociation GS dissociation . gas dissociation RT thermal dissociation  gas dynamics GS mechanics (physics) . fluid mechanics fluid dynamics gas dynamics aerodynamics aerothermodynamics hypersonics rotor aerodynamics	RT	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	<b>gas inj</b> e GS	kinetic heating plasma heating radiant heating resistance heating thermal diffusion  ection injection fluid injection ormations fuel injection inflating perforating
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gas dissociation GS dissociation . gas dissociation RT thermal dissociation  gas dynamics GS mechanics (physics) . fluid mechanics . fluid dynamics . gas dynamics . aerodynamics . aerothermodynamics . hypersonics . rotor aerodynamics . supersonics . unsteady aerodynamics . interactional aerodynamics . rarefied gas dynamics	RT	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	<b>gas inj</b> e GS	kinetic heating plasma heating radiant heating resistance heating thermal diffusion  ection injection . fluid injection . gas injection formations fuel injection inflating perforating plasma pumping porosity pressurizing stimulation
gas dissociation GS dissociation . gas dissociation RT thermal dissociation  gas dynamics GS mechanics (physics) . fluid mechanics . fluid dynamics . gas dynamics . aerodynamics . aerothermodynamics . hypersonics . rotor aerodynamics . supersonics . unsteady aerodynamics . interactional aerodynamics . rarefied gas dynamics RT Dalton law	RT	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	<b>gas inj</b> e GS	kinetic heating plasma heating radiant heating resistance heating thermal diffusion  ection injection . fluid injection . gas injection formations fuel injection inflating perforating plasma pumping porosity pressurizing
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RT	air jets	alveolar air	streams
	cold gas	compressed air	. gas streams
•	∞ jets	expired air	RT jet flow
gas las	ere	high temperature air liquid air	laminar flow turbulence
GS	stimulated emission devices	detonable gas mixtures	wind tunnels
	. lasers	RT argon-oxygen atmospheres	Time tallinois
	gas lasers	∞ atmospheres	gas temperature
	carbon dioxide lasers	binary fluids	GS temperature
	carbon monoxide lasers	binary mixtures	. gas temperature
	DF lasers excimer lasers	controlled atmospheres eudiometers	RT atmospheric temperature inlet temperature
	HCL lasers	exhaust gases	ionized gases
	HCL argon lasers	fuel-air ratio	rarefied gases
	HCN lasers	fumes	shock tubes
	helium-neon lasers	gaseous rocket propellants	shock waves
	HF lasers	helium-oxygen atmospheres	temperature measurement
	nitrogen lasers	hydrogen-based energy	gae transport
	rare gas-halide lasers krypton fluoride lasers	ignition limits laminar mixing	gas transport SN (ENCOMPASSES GAS
	xenon chloride lasers	Lighthill gas model	DYNAMICSEXCLUDES MATERIALS
	xenon fluoride lasers	liquefied gases	HANDLING) 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	goo noth analysis	magnetohydrodynamics
	gasdynamic lasers infrared lasers	gas path analysis  DEF Mathematical process of determining	mass transfer
	Mach-Zehnder interferometers	overall engine performance, individual module	poliution transport
	molecular oscillations	performances and sensor performances from	
	nuclear pumping	any specific set of engine related measure	L .
	organic lasers	ments.	∞ yas lubes
	polar gases	RT gas dynamics	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS
	pulsed lasers	gas flow	LISTED BELOW)
	Q switched lasers		RT cold cathode tubes
	stimulated emission	gas phases	gas discharge tubes
	water masers	USE vapor phases	gas pipes trigatrons
li	refeation	gas pipes	tilgations
	uefaction condensing	GS pipes (tubes)	gas tungsten arc welding
USL	condensing	. gas pipes	UF TIG welding
gas lub	pricants	RT ∞ gas tubes	tungsten inert gas welding
GS	lubricants		GS welding
	. gas lubricants	gas pockets	. fusion welding
RT	gaseous diffusion	RT cavities	electric welding
	high temperature lubricants	evacuating (vacuum)	arc welding
	metal-gas systems	acc process	gas tungsten arc welding
	solid lubricants	gas pressure GS pressure	RT heat affected zone
	squeeze films	. gas pressure	gas turbine engines
ase luh	ricated bearings	RT atmospheric pressure	GS engines
USE		compressed gas	. air breathing engines
002	gao boaringo	internal pressure	gas turbine engines
gas ma	isers	partial pressure	hydrogen engines
GS	stimulated emission devices		jet engines
	. masers	∞ gas reactors	T-58 engine
	gas masers	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	ramjet engines
БТ	hydrogen masers	LISTED BELOW)	integral rocket ramjets
RT	argon lasers	RT chemical reactors	low volume ramjet engines
	atomic clocks	gas cooled reactors	pulsejet engines supersonic combustion ramjet
	carbon dioxide lasers frequency standards	gaseous fission reactors	engines
	interstellar masers	gas recovery	turboramjet engines
	polar gases	GS reclamation	turbojet engines
	stimulated emission	. materials recovery	Bristol-Siddeley Olympus 593
	TEA lasers	gas recovery	engine
	water masers	RT energy technology	Bristol-Siddeley Viper engine
		exhaust gases	ducted fan engines
gas me		gaseous diffusion	J-33 engine
GS	measuring instruments	gases	J-34 engine
	. flowmeters	∞ recovery	J-47 engine
RT	gas meters flow measurement	wastes	J-52 engine J-57 engine
nı	Venturi tubes	gas spectroscopy	J-57 engine
	vontan taboo	GS spectroscopy	J-65 engine
gas mi	xtures	gas spectroscopy	J-69-T-25 engine
GS	gases	RT chemical analysis	J-71 engine
	. gas mixtures	chemical tests	J-73 engine
	air	flame spectroscopy	J-75 engine
	alveolar air	magnetic spectroscopy	J-79 engine
	compressed air	mass spectroscopy	J-85 engine
	expired air	optogalvanic spectroscopy	J-93 engine
	high temperature air	spectroscopic analysis	RA-28 engine
	liquid air	vacuum spectroscopy	turbofan engines
	detonable gas mixtures	visible spectrum	Bristol-Siddeley BS 53 engine
	mixtures	·	CF-700 engine
	mixtures . solutions	gas streams	CF-700 engine convertible fan-shaft engines
	mixtures	·	CF-700 engine

TF-34 engine	J-65 engine	gasdynamic lasers
TF-41 engine	J-69-T-25 engine	RT gas flow
turboprop engines	J-71 engine	gas lasers
T-34 engine	J-73 engine	laser outputs
T-38 engine	J-75 engine	plasmadynamic lasers
T-53 engine	J-79 engine	tube lasers
T-55 engine	J-85 engine	
T-56 engine	J-93 engine	gaseous cavitation
T-63 engine	RA-28 engine	USE cavitation flow
T-64 engine	turbofan engines	gas flow
T-74 engine	Bristol-Siddeley BS 53 engine	
T-74 engine	CF-700 engine	gaseous diffusion
T-78 engine	convertible fan-shaft engines	DEF A method of isotopic separation based
turboramjet engines	J-97 engine	on the fact that gas atoms or molecules with
. internal combustion engines	TF-30 engine	different masses will diffuse through a morous barrier (orm membrane) at different rates. The
. gas turbine engines	TF-34 engine	method is used to separate uranium 235 from
hydrogen engines	TF-41 engine	uranium 238. It requires large gaseous diffusion
jet engines	turboprop engines T-34 engine	plants and enormous amounts of electric power.
T-58 engine	T-38 engine	UF gas diffusion
ramjet engines	T-53 engine	GS diffusion
integral rocket ramjets	T-55 engine	gaseous diffusion
low volume ramjet engines	T-56 engine	gaseous self-diffusion
pulsejet engines	T-63 engine	transport properties
supersonic combustion ramjet	T-64 engine	gaseous diffusion
engines	T-74 engine	gaseous self-diffusion
turboramjet engines	T-76 engine	RT diffusion coefficient
turbojet engines	T-78 engine	gas density
Bristol-Siddeley Olympus 593	turboramjet engines	gas dynamics
engine Bristol Siddolov Vinor ongino	RT aircraft engines	gas flow
Bristol-Siddeley Viper engine ducted fan engines	axial flow turbines	gas lubricants
J-33 engine	Brayton cycle	gas recovery
J-33 engine J-34 engine	external combustion engines	gas transport
J-47 engine	flameout	gas viscosity gas-gas interactions
J-52 engine	steam turbines	gas-gas interactions gas-ion interactions
J-57 engine	supersonic turbines	gas-liquid interactions
J-58 engine	turbogenerators two stage turbines	gas-metal interactions
J-65 engine	wave rotors	mixing ratios
J-69-T-25 engine	wave lotors	molecular diffusion
J-71 engine	gas turbines	pollution transport
J-73 engine	DEF Turbines rotated by expanding gases,	thermal diffusion
J-75 engine	as in a turbojet engine or in a turbosupercharger.	
J-79 engine	GS turbomachinery	gaseous fission reactors
J-85 engine	. turbines	GS nuclear reactors
J-93 engine	gas turbines	gaseous fission reactors
RA-28 engine turbofan engines	RT axial flow turbines	RT fissile fuels
Bristol-Siddeley BS 53 engine	Brayton cycle	fissionable materials
CF-700 engine	closed cycles	∞ gas reactors nuclear lightbulb engines
convertible fan-shaft engines	combined cycle power generation	nuclear propulsion
J-97 engine	internal combustion engines	plasma propulsion
TF-30 engine	spray ingestion steam turbines	pidoma propaloion
TF-34 engine	supersonic turbines	gaseous fuels
TF-41 engine	turbogenerators	GS fuels
turboprop engines	two stage turbines	. gaseous fuels
T-34 engine	tire stage tailsines	natural gas
T-38 engine	gas valves	liquefied natural gas
T-53 engine	GS pneumatic equipment	gases
T-55 engine	. gas valves	. flammable gases
T-56 engine	valves	gaseous fuels
T-63 engine T-64 engine	. gas valves	natural gas
T-64 engine T-74 engine	RT automatic control valves	liquefied natural gas
T-74 engine	cocks	RT lignite
T-78 engine	dampers (valves)	liquid fuels
turboramjet engines	fuel valves	gaseous rocket propellants
. turbine engines	relief valves	GS propellants
. gas turbine engines	gen viceocity	. rocket propellants
hydrogen engines	gas viscosity GS transport properties	. gaseous rocket propellants
jet engines		RT cryogenic rocket propellants
T-58 engine	. viscosity <b>gas viscosity</b>	endothermic fuels
ramjet engines	RT gaseous diffusion	gas mixtures
integral rocket ramjets	Lennard-Jones gas	high energy propellants
low volume ramjet engines		hybrid propellants
pulsejet engines	gas welding	hydrogen fuels
supersonic combustion ramjet	SN (EXCLUDES ELECTRIC WELDING IN THE	liquid rocket propellants
engines turboramjet engines	PRESENCE OF A CONTROLLED	man operated propulsion systems
turboramjet engines	GASEOUS ATMOSPHERE) GS welding	monopropellants storable propellants
Bristol-Siddeley Olympus 593	. fusion welding	Storable propellants
engine	gas welding	gaseous self-diffusion
Bristol-Siddeley Viper engine	brazing	GS diffusion
ducted fan engines	low temperature brazing	. gaseous diffusion
J-33 engine	RT gas-metal interactions	. gaseous self-diffusion
J-34 engine	pressure welding	transport properties
J-47 engine		. gaseous diffusion
J-52 engine	gasdynamic lasers	. gaseous self-diffusion
J-57 engine	GS stimulated emission devices	RT electron diffusion
J-58 engine	. lasers	gas dynamics

	kinetic theory	krypton isotopes	surface reactions
	molecular diffusion	krypton 85	Surface reactions
	particle diffusion	neon	gas-metal interactions
	plasma diffusion	liquid neon	GS fluid-solid interactions
	plasma umasion	neon isotopes	. gas-solid interactions
		radon	gas-metal interactions
gases			RT ablation
GS	gases	radon isotopes	
0.0	. ammonia	xenon	adsorption
	liquid ammonia	xenon isotopes	chemical reactions
	. carbon dioxide	xenon 129	chemisorption
		xenon 133	∞ condensation
	. carbon monoxide	xenon 135	condensing
	. carbon suboxides	. rarefied gases	corrosion
	. cold gas	cosmic gases	diffusion
	. compressed gas	interplanetary gas	evaporation
	high pressure oxygen	interstellar gas	exhaust emission
	. dissolved gases	. rarefied plasmas	flame propagation
	. exhaust gases	· · · · · · · · · · · · · · · · · · ·	· •
	flue gases	. real gases	gas welding
	. flammable gases	. residual gas	gaseous diffusion
	gaseous fuels	. solidified gases	hot corrosion
	•	solid cryogens	hydrogen embrittlement
	natural gas	solid nitrogen	∞ interactions
	liquefied natural gas	. sulfur hexafluoride	metal combustion
	liquefied natural gas	. synthesis gas	metal vapors
	pyrogen	RT ∞ atmospheres	metal-gas systems
	. gas mixtures	coal gasification	occlusion
	air	∞ fluids	solid phases
	alveolar air	fumes	sublimation
	compressed air		
	expired air	gas dynamics	sulfidation
	high temperature air	gas flow	vapor phases
		gas recovery	
	liquid air	hydrogen clouds	gasohol (fuel)
	detonable gas mixtures	metal-gas systems	DEF Synthetic fuel consisting of a mixture of
	. gas streams	nonpoint sources	gasoline and grain alcohol (ethanol).
	. gray gas	odors	GS fuels
	. high temperature gases	plasmas (physics)	. chemical fuels
	high temperature air	pneumatics	synthetic fuels
	. hydrogen	· · · · · · · · · · · · · · · · · · ·	gasohol (fuel)
	hydrogen isotopes	prevaporization	RT alcohols
	deuterium	reaction products	
	hydrogen 4	vapor phases	gasoline
		vapors	
	metallic hydrogen		gasoline
	tritium	gas-gas interactions	GS fuels
	liquid hydrogen	GS gas-gas interactions	. chemical fuels
	. ideal gas	. association reactions	hydrocarbon fuels
	. ionized gases		gasoline
	Lorentz gas	RT Dalton law	liquid fuels
	. liquefied gases	detonable gas mixtures	gasoline
	liquefied natural gas	exhaust emission	products
	liquid air	gaseous diffusion	. petroleum products
	liquid ammonia	∞ interactions	
	liquid fluorine		. gasoline
	liquid habitine	gorification	RT antiknock additives
		gasification	automobile fuels
	liquid helium 2	GS gasification	diesel fuels
	liquid hydrogen	. coal gasification	gasohol (fuel)
	liquid neon	hydropyrolysis	jet engine fuels
	liquid nitrogen	RT synthane	kerogen
	liquid oxygen	vaporizing	kerosene
	. molecular gases		octane number
	polar gases	gas-ion interactions	shale oil
	polyatomic gases	UF ion-gas interactions	solvent refined coal
	diatomic gases		contain rollined codi
	. monatomic gases	RT gaseous diffusion	GASP
	. neutral gases	∞ interactions	
	. nitrogen		USE Global Air Sampling Program
	liquid nitrogen	gaskets	Gaspra asteroid
		DEF Preformed deformable devices de-	
	nitrogen isotopes	signed to be placed between two adjoining parts	(added July 1995)
	nitrogen 15	to prevent the passage of liquid or gas between	GS celestial bodies
	nitrogen 16	the parts.	. asteroids
	solid nitrogen		Gaspra asteroid
	. noncondensable gases	GS seals (stoppers)	RT asteroid belts
	. nongray gas	gaskets	Galileo spacecraft
	. nonpolar gases	RT labyrinth seals	meteoroids
	. ortho hydrogen	O ring seals	
	. oxygen	pump seals	gas-solid interactions
	liquid oxygen		DEF Effects of the impingement of gases
	oxygen isotopes	gas-liquid interactions	(particles) on solid surfaces in various environ-
			ments.
	oxygen 17	3 1	
	oxygen 18	. air water interactions	GS fluid-solid interactions
		air sea ice interactions	gas-solid interactions
	. ozone	RT condensing	gas-metal interactions
	. para hydrogen	· · · · · · · · · · · · · · · · · · ·	
		energy transfer	RT air land interactions
	. para hydrogen	· · · · · · · · · · · · · · · · · · ·	
	. para hydrogen . phosgene . rare gases	energy transfer evaporation	RT air land interactions dynamic loads
	. para hydrogen . phosgene . rare gases argon	energy transfer evaporation gaseous diffusion	RT air land interactions dynamic loads fluid dynamics
	. para hydrogen . phosgene . rare gases argon argon isotopes	energy transfer evaporation gaseous diffusion heat transfer	RT air land interactions dynamic loads fluid dynamics impingement
	. para hydrogen . phosgene . rare gases argon argon isotopes helium	energy transfer evaporation gaseous diffusion heat transfer ∞ interactions	RT air land interactions dynamic loads fluid dynamics impingement ∞ interactions
	. para hydrogen . phosgene . rare gases argon argon isotopes . helium helium isotopes	energy transfer evaporation gaseous diffusion heat transfer ∞ interactions interfacial tension	RT air land interactions dynamic loads fluid dynamics impingement
	. para hydrogen . phosgene . rare gases . argon argon isotopes . helium . helium isotopes liquid helium	energy transfer evaporation gaseous diffusion heat transfer ∞ interactions interfacial tension mass transfer	RT air land interactions dynamic loads fluid dynamics impingement ∞ interactions panel method (fluid dynamics)
	. para hydrogen . phosgene . rare gases argon argon isotopes . helium helium isotopes	energy transfer evaporation gaseous diffusion heat transfer ∞ interactions interfacial tension	RT air land interactions dynamic loads fluid dynamics impingement ∞ interactions

. fluid boundaries . . unified field theory . . digital computers . gas-solid interfaces . . . electroweak model ... GE computers interfaces . . standard model (particle physics) . . . . GE 635 computer . fluid boundaries gravitation theory . gas-solid interfaces string theory **GE** computers General Electric computers boundary layers supergravity GS data processing equipment fluid-solid interactions supersymmetry heat transfer ∞ theories . computers interface stability Yang-Mills fields . . digital computers metal surfaces Yang-Mills theory . . . GE computers . . . . GE 625 computer occlusion Gauss equation . . . . GE 635 computer solid phases solid-solid interfaces Gauss function GS analysis (mathematics)  $\infty \ gear$ solubility (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN sublimation . real variables . . differential equations vapor phases partial differential equations RT arresting gear gastrointestinal system ... Gauss equation gears RT ∞ equations GS anatomy landing gear . digestive system . Maxwell equation mechanical drives . . gastrointestinal system Gauss function . . . appendix (anatomy) gear teeth USE Gauss equation . . . intestines bevel gears RT . . . . rectum gears Gaussian distributions . . stomach mechanical drives USE normal density functions RT abdomen colic gearboxes Gaussian elimination gall (added October 1997) DEF A technique for solving linear equa-USE transmissions (machine elements) glands (anatomy) tions by progressive differencing. liver RT elimination gears organs linear equations pancreas GS gears matrices (mathematics) . bevel gears ∞ systems subtraction . racks (gears) . spiral bevel gears GATE (experiment) Gaussian noise **GARP Atlantic Tropical Experiment** RT counter-rotating wheels USE random noise ∞ gear gates gear teeth Gauss-Markov theorem (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN idlers theorems **lubrication** Gauss-Markov theorem mechanical drives closures least squares method transmissions (machine elements) gates (circuits) statistical analysis wheels gates (openings) variance (statistics) windmills (windpowered machines) gates (circuits) Gaussmeters gegenschein

DEF A round or elongated spot of light in the OR-gates magnetometers USE GS circuits . gates (circuits) sky at a point 180 degrees from the sun. Also gauze called counterglow. . . field-programmable gate arrays fabrics GS electromagnetic radiation . threshold gates gauze RT coincidence circuits . light (visible radiation) RT casts . gegenschein ∞ gates extraterrestrial radiation logic circuits GAW-1 airfoil logical elements . gegenschein UF General Aviation Whitcomb airfoil night sky switching circuits GS airfoils polarized light threshold logic . wings trigger circuits GAW-1 airfoil sky brightness solar radiation ATLIT project gates (openings) terrestrial dust belt PA-34 Seneca aircraft RT apertures zodiacal light wing profiles ∞ barriers canals gehlenite GAW-2 airfoil DEF A mineral of the mellite group. It is doors General Aviation Whitcomb airfoil UF isomorphous with akermenite. Used for verfences (barriers) GS airfoils lardenite. ∞ gates . wings hatches . GAW-2 airfoil velardenite hydraulic equipment GS aluminum compounds body-wing configurations . aluminum silicates openings flaps (control surfaces) . . gehlenite outlets general aviation aircraft safety devices calcium compounds wing profiles . calcium silicates vents . . gehlenite walls GC-130 aircraft minerals USE C-130 aircraft gehlenite gauge invariance invariance silicon compounds GCR (reactors) gauge invariance . silicates USE gas cooled reactors electromagnetic radiation . . aluminum silicates ... gehlenite supergravity **GDOP** . . calcium silicates transformations (mathematics) USF geometric dilution of precision . gehlenite RT aluminum oxides gauge theory GE 625 computer DEF A field theory in which symmetrics of GS data processing equipment the theory are implemented locally in space and . computers Geiger counters time. This leads to theories where forces are . . digital computers DEF Instruments for detecting and measurgenerally carried by vector bosons. Some gauge ing radioactivity. In full, Geiger-Mueller counter. ... ĞE computers theories are electrodynamics, quantum chromo-.... GE 625 computer Used for Geiger-Mueller tubes. dynamics, and Yang Mills theory.

GS field theory (physics) Geiger-Mueller tubes ionization chambers

GE 635 computer

. computers

data processing equipment

GS

. Geiger counters

measuring instruments

. gauge theory

. . quantum chromodynamics

	. counters		s that form continuous matrices and		Gemini flights
	radiation counters		ely pervade the liquid phase. Gels de-		Gemini 11 flight
	Geiger counters	form ela	stically upon application of shear forces	RT	Titan launch vehicles
	. radiation measuring instruments	less tha	n the yield stress. At shear forces above		
	radiation counters	the yield	d stress, the flow properties are princi-	Gemini	12 flight
	Geiger counters	pally de	termined by the gel matrices.	GS	space flight
RT	dosimeters	ĞS	gels		. manned space flight
	neutron counters		. double base rocket propellants		Gemini flights
	overvoltage		. silica gel		Gemini 12 flight
	particle telescopes		. xerogels	RT	Titan launch vehicles
	proportional counters	RT	aerogels		Thair laurion volliolos
	radiation detectors	111	colloids	Comini	(CT 1) anagograft
	radiation detectors		dopes		(GT-1) spacecraft
Goigar I	Mueller tubes		•	GS	manned spacecraft
-			gelatins		. Gemini spacecraft
USE	Geiger counters		gelation		Gemini (GT-1) spacecraft
			gelled rocket propellants		reentry vehicles
	omatography		nonNewtonian fluids		. recoverable spacecraft
	ed August 2004)		slurries		Gemini spacecraft
	Chromatography on non-ionic gels		thickeners (materials)		Gemini (GT-1) spacecraft
without	regard to the mechanism of solute dis-		thixotropy		soft landing spacecraft
criminati	ion.		.,		. Gemini spacecraft
UF	gel filtration chromatography	Gemini	2 spacecraft		Gemini (GT-1) spacecraft
	gel permeation chromatography	GS		RT	
GS	chemical tests		. Gemini spacecraft	111	manned space night
	. chemical analysis		Gemini 2 spacecraft	0!!	D
	chromatography		reentry vehicles		B spacecraft
	gel chromatography		. recoverable spacecraft	GS	manned spacecraft
RT					Gemini B spacecraft
ΠI	chemical analysis		Gemini spacecraft		reentry vehicles
	liquid chromatography		Gemini 2 spacecraft		. recoverable spacecraft
1 60			soft landing spacecraft		Gemini B spacecraft
	tion chromatography		. Gemini spacecraft		soft landing spacecraft
(adde	ed November 2001)		Gemini 2 spacecraft		. Gemini B spacecraft
USE	gel chromatography	RT	manned space flight	RT	manned space flight
			1 0		marined space night
gel pern	neation chromatography	Gemini	3 flight	Camini	flimbto
USE	gel chromatography	GS	space flight	Gemini	
			. manned space flight	GS	space flight
gelatins	1		Gemini flights		. manned space flight
	collagens				Gemini flights
	of food	DT	Gemini 3 flight		Gemini 3 flight
		RT	Titan launch vehicles		Gemini 4 flight
	gels				Gemini 5 flight
	nonNewtonian fluids	Gemini	4 flight		Gemini 6 flight
		GS	space flight		Gemini 7 flight
gelation	1		. manned space flight		
RT	coagulation		Gemini flights		Gemini 8 flight
	colloiding		Gemini 4 flight		Gemini 9 flight
	gels		Gomma v mgm		Gemini 10 flight
	solidification	Gemini	5 flight		Gemini 11 flight
	thixotropy				Gemini 12 flight
	шкопору	GS	space flight		· ·
	,		. manned space flight	Gomini	project
gelbstofi			Gemini flights		programs
,	ed October 1997)		Gemini 5 flight	do	
USE	dissolved organic matter				. NASA programs
		Gemini	6 flight		NASA space programs
gelled p	propellants	GS	space flight		Gemini project
GS	propellants		. manned space flight		. projects
	gelled propellants		Gemini flights		Gemini project
	gelled rocket propellants		Gemini 6 flight		space programs
RT	chemical fuels		Gennin o nigni		NASA space programs
n i		Comini	7 flight		Gemini project
	colloidal propellants	Gemini		RT	Agena B rocket vehicle
	high temperature propellants	G5	space flight	111	Agena rocket vehicles
	hydrogen fuels		. manned space flight		Atlas launch vehicles
	metal fuels		Gemini flights		
	metal propellants		Gemini 7 flight		integrated mission control cent
	plastic propellants	RT	Titan launch vehicles		Mercury project
	propellant additives				Titan project
	solid propellants	Gemini	8 flight		
		GS	space flight	Gemini	spacecraft
gelled r	ocket propellants		. manned space flight		manned spacecraft
UF	thixotropic propellants		Gemini flights		. Gemini spacecraft
GS	propellants		Gemini liight		Gemini 2 spacecraft
GS		DT	Titan launch vehicles		Gemini 2 spacecraft
	. gelled propellants	RT	man idunion vernoles		` / 1
	gelled rocket propellants		0.00		reentry vehicles
	rocket propellants	Gemini			recoverable spacecraft
	liquid rocket propellants	GS	space flight		Gemini spacecraft
	gelled rocket propellants		. manned space flight		Gemini 2 spacecraft
RT	chemical fuels		Gemini flights		Gemini (GT-1) spacecraft
	cryogenic rocket propellants		Gemini 9 flight		soft landing spacecraft
	gels	RT	Titan launch vehicles		. Gemini spacecraft
	high temperature propellants	111	Iddition volitoro		Gemini 2 spacecraft
		Comiri	10 flight		Gemini 2 spacecraft
	hybrid propellants		10 flight	DT	
	hypergolic rocket propellants	GS	space flight	RT	manned space flight
	metal propellants		. manned space flight		space capsules
	monopropellants		Gemini flights		Titan project
	slurry propellants		Gemini 10 flight		
	solid rocket propellants	RT	Titan launch vehicles	Gemini	d meteoroids
	storable propellants			GS	celestial bodies

Gemini 11 flight
GS space flight
. manned space flight

gels
DEF Liquids containing colloidal structural

. meteoroid showers
. . Geminid meteoroids
. meteoroids

Geminid meteoroids	transport aircraft	test pattern generators
gene expression	turboprop aircraft utility aircraft	thermoelectric generators tide powered generators
DEF The process by which a gene's coded	utility all clair	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 biological evolution	General Dynamics aircraft	wave generation
chromosomes	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 genes	. CL-84 aircraft . CV-340 aircraft	RT chromosome aberrations chromosomes
genetically modified plants	. CV-440 aircraft	cloning (biology)
genetics	. CV-880 aircraft	deoxyribonucleic acid
molecular biology	. CV-990 aircraft	gene expression
mutagenesis	. F-102 aircraft	gene expression regulation
oncogenes	. F-106 aircraft	genetic code
phenotype ribonucleic acids	. F-111 aircraft RT ∞ aircraft	genetic engineering
transcription (genetics)	Canadair aircraft	genetics genome
transcription (genetics)	PA-34 Seneca aircraft	molecular biology
gene expression regulation		mutagenesis
(added August 2004)	General Electric computers	mutations
DEF Any of the processes by which nuclear,	USE GE computers	phenotype
cytoplasmic, or intercellular factors influence the		ribonucleic acids
differential control of gene action at the level of transcription or translation. These processes	general overviews (added February 1993)	telomeres
include gene activation and genetic induction.	RT bibliographies	Genesis mission
RT gene expression	recommendations	(added February 1999)
gene therapy	surveys	DEF A space mission to collect solar wine
genes	technology utilization	samples from a halo orbit about the sun-Eart
transcription (genetics)		L1 point for two years, returning those sample
gene regulation	General Purpose Heat Sources	to Earth in 2003 for analysis and examination
USE gene expression	(added December 2002) USE radioisotope heat sources	Analysis of the samples collected by the mission will contribute to an understanding of the origin.
ool gene expression	OOL Tadioisotope heat sources	of the solar system.
gene therapy	generalization (psychology)	GS space missions
(added February 2002)	RT transfer of training	Genesis mission
DEF The introduction of new genes into		RT solar system evolution
cells for the purpose of treating disease by restoring or adding gene expression.	∞ generation	solar wind
GS therapy	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	genetic algorithms
gene therapy	LISTED BELOW)	(added December 1992)
RT chromosomes	RT cogeneration	DEF Parameter search procedures loosel
deoxyribonucleic acid	heat generation initiation	based on the mechanics of natural population
gene expression	regeneration (engineering)	genetics and the survival-of-the-fittest.
gene expression regulation	3 - 1 - 1 - 3 - 1 - 3 - 3 - 3 - 3 - 3 -	GS mathematical logic
genetic engineering plasmids		. algorithms <b>genetic algorithms</b>
pidomido	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	optimization
general aviation aircraft	LISTED BELOW)	genetic algorithms
UF executive aircraft	RT AC generators	RT artificial intelligence
private aircraft	arc generators	control systems design
GS general aviation aircraft . agricultural aircraft	boilers cavity vapor generators	design optimization
. Beechcraft 18 aircraft	colloidal generators	evolvable hardware machine learning
. C-33 aircraft	DC generators	multidisciplinary design optimization
. C-35 aircraft	decommutators	neural nets
. Cessna 172 aircraft	direct power generators	optimal control
. Cessna 205 aircraft	duochromators	parameter identification
. Cessna 210 aircraft . Cessna 402B aircraft	electric generators electrostatic generators	trajectory optimization
. CL-600 challenger aircraft	energy conversion efficiency	genetic code
. DH 125 aircraft	function generators	DEF The sequence of nucleotides, coded in
. DHC 2 aircraft	gas generators	triplets along the messenger RNA that deter
. DO-27 aircraft	Hall generators	mines the sequence of amino acids in protein
. DO-28 aircraft	harmonic generators	synthesis.
. G-1 aircraft	homopolar generators	RT chromosomes
. HC-3 helicopter . Yak 40 aircraft	impulse generators linear alternators	cloning (biology)
RT ∞ aeronautics	magnetohydrodynamic generators	genes genetics
air transportation	motors	genome
∞ aircraft	noise generators	3
civil aviation	photoelectric generators	genetic diversity
commercial aircraft	plasma generators	USE biological diversity
commuter aircraft	pulse generators	ganatia anginaaring
GAW-2 airfoil helicopters	radiation sources report generators	genetic engineering  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	solar sea power plants	UF hybrids (biology)
Piper aircraft	sound generators	RT biochemistry
single engine aircraft ∞ subsonic aircraft	stators stimulated emission devices	bioengineering ∞ biology
training aircraft	subharmonic generators	∞ biology biosynthesis
g anoran	Sasa.monio gonoratoro	2.20,11110010

clone cells	ribonucleic 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	a a a a a tran huaisa	airglow
genome	geoastrophysics	geocoronal emissions
phenotype	USE astrophysics	electromagnetic radiation
plasmids		. light (visible radiation)
polymerase chain reaction	geobotany	sky radiation
polymerase chain reaction	GS botany	
	. geobotany	airglow
genetically modified plants		geocoronal emissions
	RT biogeochemistry	
(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)	geocyclotrons
. genetically modified plants		RT ∞ accelerators
RT agriculture	geocentric coordinates	elementary particles
botany	GS coordinates	olomomaly particles
crop vigor		geodesic lines
gene expression	. planetocentric coordinates	<u> </u>
genetic engineering	geocentric coordinates	0 ,
	RT astronomical coordinates	. Euclidean geometry
genome	celestial reference systems	lines (geometry)
phenotype	inertial coordinates	geodesic lines
	planet ephemerides	RT chords (geometry)
	spherical coordinates	curves (geometry)
genetics	opriorioar oppidinates	(0 7/
RT biological diversity		geodesy
biological evolution	geochemistry	DEF The science which deals mathemati
∞ biology	DEF The study of the distribution of the	
breeding (reproduction)	amounts of the chemical elements in minerals,	cally with the size and shape of the Earth, and
chromosomes	ores, rocks, soils, water, and the atmosphere.	the Earth's external gravity field, and with sur
	Also, the study of the circulation of the elements	veys of such precision that overall size and
cloning (biology)		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	Earth shape
gene expression	classes of rocks and minerals.	
genes	GS environmental chemistry	Izsak ellipsoid
genetic code	. geochemistry	GS geodesy
	biogeochemistry	. celestial geodesy
genetic engineering		RT altimetry
mutagens	RT abundance	Earth (planet)
mutations	∞ chemistry	Earth axis
neurospora	cosmochemistry	geodetic accuracy
nuclei (cytology)	Earth sciences	geodetic surveys
nucleogenesis	geochronology	geoids
species diffusion	geology	• .
transcription (genetics)	geophysics	geology
transoription (gonotice)	hydrology	geophysics
		gravimeters
Genie rocket vehicle	isotope ratios	lunar retroreflectors
UF MB-1 rocket vehicle	limnology	oblate spheroids
	marine chemistry	OGO-4
GS rocket vehicles	mineralogy	OGO-5
single stage rocket vehicles	paleobiology	perturbation
Genie rocket vehicle	paleontology	photomapping
RT Astrobee rocket vehicles	petrology	1 11 0
solid propellant rocket engines	radioactivity	polar wandering (geology)
	siderophile elements	satellite altimetry
		satellite doppler positioning
genitourinary system	submarine hydrothermal vents	topography
GS anatomy		vinti theory
. genitourinary system	geochronology	,
bladder	DEF The study of time in relationship to the	geodetic accuracy
	history of the Earth, especially by the absolute	DEF The degree to which point positions of
kidneys	age determination and relative dating systems	boundaries indicated on maps or imagery corre
glomerulus	developed for this purpose.	spond with true geodetic positions.
reproductive systems		
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
RT gynecology	Cretaceous-Tertiary boundary	satelite doppler positioning
kidney stones		goodetic coordinates
organs	dendrochronology	geodetic coordinates
∞ systems	geochemistry	DEF Quantities that define the position of
urology	geophysics	point on the spheroid of reference with respec
<del>.</del> .	Holocene epoch	to the planes of the geodetic equator and of
	isotope ratios	reference meridian.
genome	magnetostratigraphy	GS coordinates
(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
p. 0.000	ou anguapiny	aout outomico

. 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 aeodimeters vegetative index DEF Trade name of electronic-optical devices that measure ground distances precisely geographic information systems by electronic timing and phase comparison of modulated light waves that travel from a master unit to a reflector and return to a light-sensitive DEF Computer assisted systems that acquire, 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 geography 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 USÉ GEOS-D satellite cadastral mapping 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 geographic applications program crustal dynamics 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 selenography terradvnamics temperate regions tropical regions geoelectricity tundra 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 GS electricity geoelectricity the geopotential surface which most nearly co-

incides with mean sea level over the entire

surface of the Earth.

altimetry

aeodesv

geodetic accuracy geometry geophysics **GRACE** mission oblate spheroids 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 geology 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 dvnamic Earth. geology . beds (geology)

. . salt beds

. telluric currents

field aligned currents

Earth (planet)

geophysics

	cones (volcanoes) contacts (geology) crossbedding (geology) domes (geology) gaps (geology) geochronology geomorphology glaciology hydrogeology kettles (geology) lunar geology orography petrology lithology petrogenesis petrography photogeology structural properties (geology) structural properties (geology) subduction (geology) tectonics neotectonics collandsorms Canadian Shield continental shelves Earth (planet) Earth planetary structure Earth sciences exploitation exploration fiords formations geochemistry geodesy geological surveys geophysical observatories geophysics geopressure geotemperature gravimetry Great Basin (US) inliers (landforms) sishmuses kreep massifs meteorology mineral deposits mineralogy minerals morphology ocean bottom oceanography oil exploration fook meteorics placetic file of the properties of the planetary planetary planetary geodesy geotemperature gravimetry Great Basin (US) inliers (landforms) isthmuses kreep massifs meteorology minerals morphology ocean bottom oceanography oil exploration outcrops paleomagnetism paleomagnetism paleomognetism
	structural basins netic anomalies
USE geomagi	magnetic anomalies netic crotchets
USE	sudden ionospheric disturbances
yeomagi USE	netic effects magnetic effects

geomagnetic equator

geomagnetic hollow

anomalies

geomagnetic field

USE

GS

USE magnetic equator

geomagnetism

```
. magnetic anomalies
          . geomagnetic hollow
        Earth magnetosphere
        magnetohydrodynamic flow
        plasma clouds
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.
        latitude
         . geomagnetic latitude
        coordinates
        geomagnetism
        polar cusps
geomagnetic micropulsations
   GS pulses
         geomagnetic pulsations
        . . geomagnetic micropulsations
        . micropulsations

    geomagnetic micropulsations

        variations
        . magnetic variations
        . . geomagnetic pulsations
           . geomagnetic micropulsations
        nocturnal variations
        telluric currents
geomagnetic pulsations
         geomagnetic pulsations
         . . geomagnetic micropulsations
         variations
        . magnetic variations
        . . geomagnetic pulsations
         ... geomagnetic micropulsations
        geomagnetism
         KP index
        magnetospheric instability
        nocturnal variations
geomagnetic storms
 USE magnetic storms
geomagnetic tail
        (RESTRICTED TO THE EARTH
MAGNETOTAIL)
Earth magnetotail
   SN
   GS
        environments
        . Earth magnetosphere
        . . geomagnetic tail field aligned currents
        geomagnetism
        magnetic fields
        magnetic islands
       ∞ magnetotails
        planetary magnetic fields
        planetary magnetotails
        polar cusps
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.
        geomagnetic field
         terrestrial magnetism
   GS
        magnetic fields
        . geomagnetism
        magnetic properties
        geomagnetism
        aeromagnetism
        barium ion clouds
        Birkeland currents
        continental drift
        dynamo theory
```

Earth (planet)

Earth gravitation

Earth sciences

electrojets field aligned currents

Earth magnetosphere

field theory (physics)

```
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.

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 geometric 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 satellites and in the selection of optimal satellite signals sources. Used for GDOP.

**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)

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 drigic	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		the principles of physiography in its descriptive
gradient index optics	lines (geometry)	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
	hexagons	. geomorphology
optical measurement	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
	rhombohedrons	
diffraction patterns	tetrahedrons	terrain
geometrical acoustics	projective geometry	topography
geometrical optics		volcanoes
ray tracing	Mercator projection	volcanology
reflectance	radii	
∞ 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)	RT aerospace environments
. curves (geometry)	metric space	∞ 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	oo test equipment
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 a second sec
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-A
zero angle of attack	spheres	POGO
	·	
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) 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 ĠS astronomical observatories pressure . geopressure geology formations geochemistry geophysics geology geochronology geothermal resources geothermal technology geodesy geophysical satellites geodynamics pressure gradients GS artificial satellites geoelectricity . geophysical satellites geoids Georgia . . Cosmos satellites nations geological surveys geology geomagnetism geophysical observatories ... Cosmos 2 satellite . United States Cosmos 3 satellite Georgia ... Cosmos 5 satellite Atlanta (GA) Cosmos 6 satellite Sand Hills Region (GA-NC-SC) gravimeters 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) . Cosmos 954 satellite LARGOS satellite polar cusps Cosmos 1129 satellite PAGEOS satellite · radiation . Intercosmos satellites radioactivity **GEOS 2 satellite** Explorer 6 satellite ∞ science Explorer 10 satellite GEOS-B satellite seismology artificial satellites Explorer 12 satellite 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 aeoelectricity LARGOS satellite ... OSO-6 gravitational fields PAGEOS satellite OSO-7 heiaht 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 atmosphere in units proportional to the potential . ESA satellites Vanguard 3 satellite energy of unit mass (geopotential) at this height, Wind/GGS spacecraft **GEOS satellites (ESA)** ESA spacecraft Ariel satellites relative to sea level. communication satellites geopotential . ESA satellites GS GEOS satellites (ESA) geopotential height **EOLE** satellites meteorological satellites PEOLE satellites potential energy Earth magnetosphere . geopotential height atmospheric pressure European space programs Geosari project space laboratories Earth atmosphere unmanned spacecraft Earth gravitation GEOS satellites (ESRO) Vanguard satellites geodetic accuracy USE GEOS satellites (ESA) gravitational fields Geosari project head (fluid mechanics)

## geophysics

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, geodesy, seismology, and hydrology. The trend is to extend the scope of geophysics to include meteorology, geomagnetism, astrophysics, and

Geopotential Research Mission

scale height

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.

Gravsat satellites ÙF artificial satellites GS

DEF Launch of GEOS on second development flight of Ariane launcher into a geostationary elliptical orbit in 1979. The name is derived from a combination of GEOS and ARlane.

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

GOES satellites USF

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.

RT anticlines

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

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

RT fabrics

soil mechanics

#### geotemperature

Internal temperature of the planet Earth. Used for geothermometry.

geothermometry

geology

geothermal anomalies

temperature

geotextiles

USE geotechnical fabrics

### geothermal anomalies

anomalies

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

The gamut of operations involved in the exploration, exploitation, and conversion of energy derived from geothermal sources.

technologies

energy technology
. geothermal technology
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 GS

capacitors ion density (concentration)

aeriatrics

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

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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 gadolinium-gallium garnet Germany 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 distortion West Germany 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 . . . 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 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 propargyl groups . free energy 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 gevsers . 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
	pressure	girders			pancreas
	temperature	GS	structural members		parathyroid gland
	·		. girders		pineal gland
Gibralta		RT	beams (supports)		pituitary gland
	ed February 1992)		box beams		thymus gland
GS	nations		girder webs		thyroid gland
us	. United Kingdom		plates (structural members)		mammary glands
	Gibraltar		trusses		salivary glands
DT	_				sebaceous glands
RT	Europe Mediterranean Sea	girdles			sex glands
		RT «	∞ belts		gonads
	Spain		pelvis		ovaries
	straits				testes
		glacial			prostate gland
gimball	ess inertial navigation		A general term for drift transported by	RT	endocrine systems
GS	navigation		or icebergs and deposited directly on		gastrointestinal system
	. inertial navigation		in seas. Used for drumlins, end mo-	0	∘ glands
	. gimballess inertial navigation		eskers, glaciofluvial deposits, moraines,		liver
RT	gyroscopes		oss-and-Lee topography.		organs
	inertial platforms	UF	drumlins		secretions
	navigation instruments		end moraines		
			eskers	glands	(seals)
gimbals			glaciofluvial deposits	GS	seals (stoppers)
DEF	Devices with two mutually perpendicu-		moraines		glands (seals)
			Stoss-and-Lee topography	RT o	∘ glands
	intersecting axes of rotation, thus giving gular movement in two directions, on	RT	debris		labyrinth seals
,	,		glaciers		O ring seals
	ngines or other objects may be mounted.		kettles (geology)		packings (seals)
	s, supports which provide the spin axes		land ice		pump seals
	grees of freedom.		landforms		sealing
RT	bearings		sea ice		g
	control moment gyroscopes		sediments	glare	
	fluid rotor gyroscopes				A condition of vision in which there is
	gyrodampers	glacier	S		ort or a reduction in ability to see details
	gyroscopes	DEF	Large masses of ice formed, at least in		or both, caused by an unsuitable distri
	pivots	part, or	land by the compaction and recrystalli-		or range of luminance, or by extreme
	stabilized platforms	zation	of snow, moving slowly by creeping		ns in space.
	supports	downslo	ope or outward in all directions due to the	RT	brightness
	swivels	stress of	of their own weight, and surviving from		comfort
		year to	year. Included are small mountain gla-		dayglow
Ginga s	satellite	ciers as	s well as ice sheets continental in size,		electromagnetic radiation
	ed June 1992)	and ice	shelves which float on oceans but are		human factors engineering
	artificial satellites	fed in p	art by ice formed on land. Used for active		illuminating
	. scientific satellites	glaciers	and advancing glaciers.		light (visible radiation)
	astronomical satellites	UF	active glaciers		luminance
	Ginga satellite		advancing glaciers		luster
	Japanese spacecraft	GS	crevasses		optical properties
	. Ginga satellite		. glaciers		radiance
	observatories		ice		
	. astronomical observatories		. glaciers		sky brightness
	astronomical satellites		resources		specular reflection
	Ginga satellite		. Earth resources		spread reflection
RT	Japanese space program		. glaciers		visibility
111		RT	cirques (landforms)		vision
	x ray astronomy		glacial drift	alaaa	
	x ray spectra		glaciology	glass	wlees.
	x ray stars		land ice	GS	glass
			sea ice		. borosilicate glass
Giotto r	mission		354 155		. E glass
DEF	The European Space Agency's mis-	glaciofl	uvial deposits		S glass
sion to f	ly through the head of Halley's Comet in		glacial drift		. glass fibers
order to	make in situ measurements of the		3		. metallic glasses
compos	ition and physical state as well as the	glaciol	ogy		. obsidian glass
structure	es of the head. Included in the onboard		The study of all aspects of snow and		. Pyroceram (trademark)
equipme	ent are cameras to determine the struc-		science that treats quantitatively the		. silica glass
tures, sp	pectrometers to determine the composi-		range of processes associated with all		. spin glass
tion, and	d a plasma detector and a magnetom-		f solid existing water.		. Vycor
eter to i	measure the interactions with the solar		geology	RT	amorphous materials
wind. Th	ne time of encounter with the comet was		. glaciology		ceramics
during tl	he second week of March 1986.	RT	geomorphology		electrostatic bonding
GŠ	ESA spacecraft		glaciers		glass transition temperature
	Giotto mission		hydrogeology		glassware
	space missions		isostasy		glassy carbon
	. flyby missions		loodiacy		Griffith crack
	. Giotto mission	∞ glands		0	o materials
	unmanned spacecraft	SN	(USE OF A MORE SPECIFIC TERM IS		moldavite
	. space probes	٥.٠	RECOMMENDEDCONSULT THE TERMS		obsidian
	Giotto mission	D	LISTED BELOW)		optical coatings
RT	Halley's comet	RT	glands (anatomy)		optical materials
	-,		glands (seals)		optical properties
and the state of	la		pump seals		photographic plates
girder v			(		porcelain
GS	structural members		(anatomy)		silicon dioxide
	. plates (structural members)	GS	anatomy		vitreous materials
	girder webs		glands (anatomy)		vitrification
	webs (supports)		endocrine glands		
_	. girder webs		adrenal gland	glass c	oatings
RT	elastic sheets		gonads	SN	(COATINGS CONSISTING OF GLASS)
	girders		ovaries	GS	coatings

. glass coatings UF sailplanes RT glazes laboratory equipment GS gliders metallic glasses . ASSET gliders pipettes protective coatings silica glass . boostglide vehicles . . X-20 aircraft silica glass . hang gliders glass electrodes DEF Form of carbon with unique properties . HL-10 reentry vehicle GS electrodes and characteristics. Formed by carbonizing phe-. hypersonic gliders glass electrodes nolic resins made by reacting phenols with cel-. . X-20 aircraft electrochemistry lulosics, aldehydes, and ketones. . Janus spacecraft ion exchanging GS composite materials . paragliders silica glass glassy carbon . inflatable gliders RT aerospace planes carbon glass fiber reinforced plastics ∞ aircraft alass GS composite materials ∞ materials flexible wings . fiber composites free flight glass fiber reinforced plastics aliding lifting reentry vehicles 
∞ military aircraft . polymer matrix composites (added August 2008) . . reinforced plastics USE Fermi Gamma-ray Space Telescope ... glass fiber reinforced plastics monoplanes Glauber theory observation aircraft . reinforced plastics approximation sails glass fiber reinforced plastics elastic scattering sailwings Pomeranchuk theorem airframe materials Schleicher aircraft composite structures ∞ theories soaring E glass ∞ subsonic aircraft fiber orientation glaucoma towed bodies GS diseases fibers ∞ winged vehicles laminates . eye diseases plastic aircraft structures . glaucoma gliding intraocular pressure pultrusion boostglide vehicles reinforcing fibers descent Glauert coefficient S glass ∞ flight thermoplastic resins USE aerodynamic forces flight paths Mach number thermosetting resins free flight woven composites glide paths glazes gliders glass fibers GS coatings lift glazes UF fiberglass  $\infty$  motion finishes GS fibers soaring . glazes . synthetic fibers glass fibers ceramics Glimm method glass Numerical technique for solving gas glass coatings glass fibers dynamics problems involving hyperbolic sysoptical materials porcelain tems of conservation laws. protective coatings glass fibers GS analysis (mathematics) boron fibers . numerical analysis glide angles E glass . Glimm method USE glide paths gradient index optics procedures metallic glasses Glimm method glide landings optical fibers  $RT\, \infty\, equations$ landing GS plastic fibers fluid dynamics glide landings reinforcing fibers methodology . horizontal spacecraft landing S glass aircraft landing silica glass glint crash landing ditching (landing) Vycor angels (radar) radar echoes planetary landing glass lasers
DEF High power lasers used in laser fusion scintillation soft landing technology research. spacecraft landing global air pollution water landing stimulated emission devices GS pollution . lasers . environment pollution . glass lasers glide paths . . air pollution high power lasers Flight paths of aeronautical vehicles in global air pollution a glide, seen from the side. The paths used by laser fusion Earth atmosphere aircraft or spacecraft in approach procedure and laser outputs environments laser plasma interactions which are generated by instrument landing faglobal warming cilities. Used for glide angles and glide slopes. laser targets pollution monitoring neodymium lasers UF glide angles pollution transport glide slopes optical pumping GS flight paths pulsed lasers Global Air Sampling Program UF GASP ultrashort pulsed lasers glide paths slopes air pollution RT glass transition temperature glide paths aircraft approach spacing air sampling GS temperature environmental quality glass transition temperature approach control approach indicators sampling curina gliding epoxy resins instrument approach Global Atmospheric Research Program alass instrument landing systems polymer chemistry GARP polymer physics terminal guidance programs . Global Atmospheric Research temperature effects transition temperature glide slopes Program . GARP Atlantic Tropical Experiment USE glide paths aerology glassware borosilicate glass integrated global ocean station aliders systems bottles A heavier-than-air aircraft that is sup-

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.

burettes

∞ containers

flasks

NASA programs

weather

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 . . cardiováscular 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 adrenal gland position indicators atrophy positioning **GLONASS** carbohydrate metabolism satellite constellations (added September 1994) hormone metabolisms space navigation Global Orbiting Navigation Satellite hypokinesia ∞ svstems Sys. lipid metabolism time synchronization GS satellite navigation systems muscles GLONASS protein metabolism **Global Tracking Network** Global Positioning System GLOTRAC (tracking network) 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 research satellite designed to collect data on the . . . . . glucose data acquisition ground stations 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 radio relay systems . carbohydrates effects on the Earth climate record. 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 gloves celestial bodies GS esters clothing . star clusters GS glutamates . globular clusters gloves alutamic acid protective clothing RT ∞ clusters RT color-magnitude diagram glutamic acid glow galactic halos acids GS 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 glutamates falling spheres . electric discharges interfacial tension glow discharges RT cathode glow liquids alutamine electric arcs GS acids microballoons electric corona spheres . amino acids

electrodeless discharges

Faraday dark space

gas discharges

. glutamine

. amino acids

organic compounds

globulins

GS biopolymers

. . glutamine . . Goertler instability projective geometry . flow characteristics . . flow stability glutathione gnotobiotics GS organic compounds DEF The study of germ free animals. Goertler instability . coenzymes bacteria stability bacteriology glutathione . 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 glycerins UF goals The first in a series of geostationary RT alcohols RT 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 Operatl Environ Satellite B. . amino acids deserts Gobi desert Geostationary Operatl Environ . glycine organic compounds arid lands Satellite B . amino acids artificial satellites desertification GS . meteorological satellites . . glycine Goddard experiment package telescope . . GOES satellites glycogens USE particle telescopes ... GOES 2 biopolymers . synchronous satellites . . GOES satellites . polysaccharides **Goddard Trajectory Determination System** glycogens GTDS . GOES 2 organic compounds computer programs meteorological satellites carbohydrates interplanetary trajectories SMS 1 . . polysaccharides moon-Earth trajectories SMS<sub>2</sub> ... glycogens orbit calculation orbital mechanics GOES 3

DEF The third in a series of geostationary orbital position estimation glycols hydroxyl compounds spacecraft trajectories GS operational environmental satellites launched in alcohols ∞ svstems June 1978. trajectory analysis glycols GS artificial satellites RT hydroxyl radicals trajectory optimization . meteorological satellites . . GOES satellites glycolysis Godunov method ... GOES 3 GS chemical reactions (added February 1998) . synchronous satellites glycolysis Non-oscillatory finite-volume scheme . . GOES satellites decomposition that incorporates the exact or approximate solu-.. 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 composition is not an essential factor in its Euler equations of motion RT meteorological satellites finite difference theory definition. shock wave interaction GOES 5

DEF The fifth in a series of geostationary GS rocks supersonic flow . gneiss Goertler instability operational environmental satellites launched in soils DEF Counter-rotating ring vortices formed in the annulus between two cylinders rotating May 1981. gnomonic projection GS artificial satellites DEF A projection on a plane tangent to the . meteorological satellites

with respect to each other.

GS

Taylor-Goertler instability

dynamic characteristics

. dynamic stability . . motion stability

. . . flow stability

surface of a sphere having the point of projec-

tion at the center of the sphere. Used in cartog-

raphy and in crystallography.
RT photomapping

∞ projection

. . GOES satellites

. . GOES satellites

. synchronous satellites

. . . GOES 5

... GOES 5

RT meteorological satellites	GOES 7	protective coatings
	GOES 8	F
GOES 6	GOES 9	gold isotopes
DEF The sixth in a series of geostationary	GOES 10	GS chemical elements
operational environmental satellites launched in	GOES 13	. gold
April 1983.	. synchronous satellites	gold isotopes
GS artificial satellites	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	goggles	RT radioactive isotopes
GOES 7	GS clothing	
COEC	. goggles	gold plate
GOES 8	RT eye protection	USE gold coatings
(added July 1995)	flight clothing	Commonte augus
GS artificial satellites	helmets	Gompertz curves
. meteorological satellites	protective clothing	GS charts
GOES satellites	sunglasses	. graphs (charts)
GOES 8	3	Gompertz curves
. synchronous satellites GOES satellites	Onlaw datastan salla	geometry (geometry)
	Golay detector cells	. curves (geometry)
GOES 8	GS measuring instruments	S curves
GOES 9	. radiation measuring instruments	Gompertz curves
(added July 1995)	radiation detectors Golay detector cells	. Euclidean geometry analytic geometry
GS artificial satellites	RT energy absorption films	S curves
. meteorological satellites		Gompertz curves
GOES satellites	pneumatic equipment	dompertz curves
GOES 9	radiation absorption	gonads
. synchronous satellites		GS anatomy
GOES satellites	gold	. genitourinary system
GOES 9	GS chemical elements	reproductive systems
	. gold	sex glands
GOES 10	gold isotopes	gonads
(added March 2000)	gold 198	ovaries
GS artificial satellites	metals	testes
. meteorological satellites	. noble metals	. glands (anatomy)
GOES satellites	gold	endocrine glands
GOES 10	gold isotopes	gonads
. synchronous satellites	gold 198	ovaries
GOES satellites	. transition metals	testes
GOES 10	gold	sex glands
	gold isotopes	gonads
GOES 13	gold 198	ovaries
(added August 2005)		testes
DEF A joint NASA/NOAA satellite launched	gold 198	RT physiological effects
on August 15, 2005 for radiometric imagery,	GS chemical elements	
atmospheric sounding, and space weather	. gold	gondolas
monitoring.	gold isotopes	RT aircraft compartments
UF GOES N	gold 198	airships
GS artificial satellites	. nuclides	balloons
. meteorological satellites	isotopes	baskets
GOES satellites	gold isotopes	
GOES 13	gold 198	goniometers
. synchronous satellites	radioactive isotopes	DEF Instruments for measuring angles.
GOES satellites	gold 198	GS measuring instruments
GOES 13	metals	. goniometers
RT marine meteorology	. noble metals	photogoniometers
space weather	gold	. radiogoniometers
storms (meteorology)	gold isotopes	RT angles (geometry)
GOES N	gold 198	diffractometers
	. transition metals	etalons
(added August 2005) USE GOES 13	gold	interferometers Mach-Zehnder interferometers
OSL GOES IS	gold isotopes	monochromators
GOES satellites	gold 198	optical measuring instruments
DEF Geostationary operational environ-		refractometers
mental satellites. Used for Geostationary Opera-	gold alloys	spectrometers
tional Environ Sats.	GS alloys	opoutomotors
UF Geostationary Operational Environ	gold alloys	goodness of fit
Sats	RT copper alloys	DEF The degree to which the observed
GS artificial satellites	nickel alloys	frequencies of occurrence of events in an ex-
. meteorological satellites	silver alloys	periment correspond to the probabilities in a
GOES satellites		model of the experiment.
GOES 1	gold coatings	GS statistical analysis
GOES 2	UF gold plate	goodness of fit
GOES 2	GS coatings	RT fitting
GOES 4	. metal coatings	mathematical models
GOES 5	gold coatings	maximum likelihood estimates
GOES 6	RT nickel plate	probability distribution functions
<del></del>	· · · · · · · · · · · · · · · · · · ·	,,

	probability theory		gradient index devices		microstructure
	statistical distributions		GRIN (optics)		nanocomposites
	statistical tests	RT	fiber optics		nanocrystals
	variance (statistics)		geometrical optics		nanostructure (characteristics)
			glass fibers		Ostwald ripening
gores			lens design		particle size distribution
RT	fabrics		lenses		
	parachute fabrics		nonlinear optics	∞ grains	
			optical properties	SN	(USE OF A MORE SPECIFIC TERM IS
gorges			∞ optics		RECOMMENDEDCONSULT THE TERMS
USE	canyons		physical optics	RT	LISTED BELOW) crystals
			ray tracing	111	grain formation
	(support system)		refractivity		grains (food)
USE	ground operational support system		•		granular materials
		gradiei	nts		particles
-	ment procurement	ĞS	gradients		propellant grains
GS	procurement		. electron density profiles		properlant grains
-	government procurement		potential gradients	grains	(food)
RT	commercial off-the-shelf products		. pressure gradients		farm crops
	commodities		temperature gradients	ao	grains (food)
	contracts		thermoclines		barley
	federal budgets	RT	angles (geometry)		corn
	services		composition (property)		. millet
			conjugate gradient method		oats
	ment/industry relations		∞ cross sections		
RT	commerce lab		differences		rice
	commercialization		distribution (property)		sorghum
	contract negotiation		∞ drop	DT	wheat
	contractors			RT	angiosperms
	contracts	•	∞ grade		Earth resources
	procurement		gravity gradiometers	٥	∘ grains
	•		isobars (pressure)		grasses
governi	ments		isotherms		seeds
RT	constitution		level (horizontal)		
	culture (social sciences)		optimization	gramma	ars
	policies		∞ profiles	RT	languages
	politics		slopes		parsing algorithms
	· ·		variations		semantics
	regimes		vector analysis		syntax
	voting		vooro: analyolo		vowels
		∞ gradio	meters		words (language)
governo		SN	(USE OF A MORE SPECIFIC TERM IS		words (language)
USE	speed regulators	OIN	RECOMMENDED-CONSULT THE TERMS	Granat	satellite
00110			LISTED BELOW)		
	(nucleonics)	RT	gravity gradiometers		ed April 1995)
	ed December 2002)		magnetometers	GS	artificial satellites
USE	radioisotope heat sources				. Soviet satellites
		gradua	tion		. Granat satellite
grabens		USE	calibrating	RI	French space program
USE	geological faults		•		gamma ray astronomy
		Graeff	calculus		international cooperation
	mission	GS	analysis (mathematics)		Mir space station
	ed August 2008)		. calculus		Russian Space Program
DEF	The second mission under the NASA		Graeff calculus		spaceborne astronomy
Earth S	ystem Science Pathfinder (ESSP) Pro-		. numerical analysis		x ray astronomy
gram wh	nich maps variations in the Earth's grav-		Graeff calculus		., ,
	. The mission includes two identical		Graen calculus	Grand (	Canyon (AZ)
	afts flying about 200 kilometers apart in	aroftin	~		landforms
	orbit 500 kilometers above the Earth.	graftin			. canyons
UF	Gravity Recovery and Climate	RT	implantation		Grand Canyon (AZ)
٥.	Experiment mission		insertion	RT	Arizona
GS	space missions			111	AllZolla
as	•		oundaries	Grand <sup>-</sup>	Tours
ᄆᄑ	. GRACE mission	GS	boundaries	UF	outer planet missions
RT	climate change		grain boundaries	GS	
	Earth atmosphere	RT	antiphase boundaries	us	space missions
	Earth gravitation		crystal dislocations		. flyby missions
	geoids		embedded atom method		Grand Tours Mariner Jupiter-Saturn flyby
	gravitational fields		grain size		
	remote sensing		intergranular corrosion		Mariner Jupiter-Uranus flyby
	satellite observation		interstices		Voyager 1977 mission
			interstitials	RT ∘	∘ missions
grade			precipitates		outer planets explorers
SN	(USE OF A MORE SPECIFIC TERM IS		transgranular corrosion		space flight
	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		twinning		Voyager 1 spacecraft
RT	angles (geometry)		9		Voyager 2 spacecraft
	gradients	grain b	ridaina		
	level (horizontal)		crack bridging	grand ι	inified theory
		USE	orack bridging		A theory describing the unification o
	position (title)	avel- f	ormation		with the other elementary forces in phys
	quality		ormation		the weak force, the strong force and the
	slopes		led June 2005)		nagnetic force. Used for GUT.
arcd	index entire	SN	(EXCLUDES FOODLIMITED TO	UF	GUT
	index optics	DT.	MATERIALS AND PARTICULATES) ∞ grains	GS	field theory (physics)
USE	gradient index optics	חוי		us	
"	tinder derice		granular materials	DT	grand unified theory
	t index devices		nucleation	RT	astrophysics
USE	gradient index optics		particulates		big bang cosmology
		_			broken symmetry
	t index optics	grain s			cosmology
	Optical systems with components	GS	size (dimensions)		Einstein equations
	refractive indexes vary continuously		. grain size		electromagnetic fields
	e material used for the optical elements.	RT	grain boundaries		electromagnetic interactions
UF	graded index optics		metal fatigue		electromagnetism
	J		· ·-·· · · · · · · · · · · · · · · · ·		

	gravitation theory	RT computer graphics	fault trees	
	gravitational fields	disk operating system (DOS)	graph theory	
	particle theory	display devices	histograms	
	plasma physics	human-computer interface	nomographs	
	relativity		∞ origins	
	string theory	graphite	Petri nets	
	strong interactions (field theory)	GS carbonaceous materials	recording instruments	
	supersymmetry	. graphite	representations	
	symmetry	pyrolytic graphite	statistical analysis	
	theoretical physics	minerals	trees (mathematics)	
	weak energy interactions	. graphite	,	
	weak interactions (field theory)	pyrolytic graphite	Grashof number	
	,	RT aluminum graphite composites	DEF A nondimensional parameter used	l in
granite		buckminsterfullerene	the theory of heat transfer. The Grashof num	ber
GS	rocks	carbon	is associated with the Reynolds number and	the
	. igneous rocks	carbon nanotubes	Prandtl number in the study of convection.	
	granite	electrodes	GS dimensionless numbers	
RT	batholiths	fiber composites	. Grashof number	
	Earth resources	fullerenes	ratios	
	soils	graphite-epoxy composites	. Grashof number	
	00110	intercalation	RT convection	
grants		lubricants	Prandtl number	
DEF	Assets bestowed or transferred, such	moderators	Reynolds number	
	ey or land, for a particular purpose.	nanotubes	ricyricide number	
RT	appropriations	single crystals	grasses	
111	budgeting	9 ,	GS plants (botany)	
	contracts	solid lubricants	. grasses	
		synthetic metals	. hay	
	insurance (contracts)			
	NASA programs	graphite-epoxy composites	reeds (plants)	
	patents	DEF Structural materials composed of ep-	sea grasses	
	subcontracts	oxy resins reinforced with graphite.	sorghum	
		GS composite materials	RT alfalfa	
	r materials	. polymer matrix composites	canopies (vegetation)	
RT	brittle materials	epoxy matrix composites	defoliation	
	grain formation	graphite-epoxy composites	farm crops	
~	grains	. resin matrix composites	farmlands	
	low density materials	graphite-epoxy composites	grains (food)	
~	o materials	. superhybrid materials	grasslands	
	particles	. graphite-epoxy composites	millet	
	pellets	RT braided composites	oats	
	· · · · · · · · · · · · · · · · · · ·		sod	
	powder (particles)	carbon fiber reinforced plastics	300	
graph tl	hoory	∞ construction materials	grasshoppers	
DEF		epoxy resins	GS animals	
	The mathematical study of the struc-	fiber composites	. invertebrates	
	graphs and networks.	graphite		
RT	combinatorial analysis	graphite-polyimide composites	arthropods	
	graphs (charts)	∞ materials	insects	
	greedy algorithms	reinforced plastics	grasshoppers	
	mathematical models	reinforcing fibers	I.	
~	∘ nets	sheet molding compounds	grasslands	
	set theory	woven composites	UF grazing lands	
~	• theories	, and the province of the prov	meadowlands	
	topology	graphite-polyimide composites	prairies	
	trees (mathematics)	DEF Composite materials utilizing graphite	savannahs	
	,	reinforcing fibers in a resin matrix.	GS land	
graphic	arts	GS composite materials	. grasslands	
ĞS	arts	. polymer matrix composites	Llanos Orientales (Colombia)	
	graphic arts	graphite-polyimide composites	RT agriculture	
	animation	RT graphite-epoxy composites	crop growth	
	computer animation	TTT graptine epoxy composites	Earth resources	
RT	charts	graphitization	farm crops	
111	diagrams	RT annealing	farmlands	
	drafting (drawing)	heat treatment	grasses	
	drawings	near treatment	hay	
	o a constant of the constant o	granhaanitavu	land use	
	engineering drawings imagery	graphoepitaxy  DEF The use of artificial surface relief struc-	plains	
	0 ,		plowing	
	inks	tures to induce crystallographic orientation in	rangelands	
	motion pictures	thin films.		
	multimedia	RT amorphous materials	rural land use	
	photography	crystal lattices	rural land use	
~	o projection	crystal structure	sod	
			steppes	
	evaluation and review techniques	graphology	0	
USE	GERT	GS handwriting	Grassmann algebra	
		. graphology	USE vector spaces	
graphic	al user interface	recognition		
(adde	ed July 1993)	. pattern recognition	∞ gratings	
DEF	A man-computer interface which relies	graphology	SN (USE OF A MORE SPECIFIC TERM IS	
on graph	hical and/or pictorial means for present-	RT character recognition	RECOMMENDEDCONSULT THE TERI LISTED BELOW)	√IS
	user with command options and their	· ·	RT gratings (spectra)	
	Input to a graphical user interface relies	graphs (charts)	interference grating	
	on the use of point-and-click devices	UF polarization charts	optical filters	
	s a 'mouse'). Most graphical user inter-	GS charts	option more	
	a mouse it most graphical user inter- are designed to facilitate multitasking		gratings (spectra)	
		. graphs (charts)		
	separate application windows (com-	bond graphs		
	ograms).	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	
	windows (computer programs)	∞ curves	RT apodization	

	corrugated waveguides	vertical perception	GS	constants
	diffraction radiation			gravitational constant
	Fresnel diffraction	gravitation	RT	big bang cosmology
~	o gratings	DEF The acceleration produced by the mu- tual attraction of two masses, and of magnitude		gravitation
	optical filters photorefractivity	inversely proportional to the square of the dis-	gravitat	ional effects
	Ronchi test	tance between the two centers of mass. Used	GS	gravitational effects
	Rowland circles	for gravity.		. gravitational lenses
		UF gravity		. Lagrangian equilibrium points
graupel		GS gravitation	DT	. lunar gravitational effects
(adde GS	ed March 1989)	. artificial gravity . Earth gravitation	RT	acceleration stresses (physiology) acceleration tolerance
us	precipitation (meteorology) . graupel	gravity anomalies		Bond number
RT	cloud glaciation	. lunar gravitation		clinorotation
	cloud physics	. microgravity		clinostats
	hail	. planetary gravitation		drop towers
	hailstorms	. stellar gravitation	~	• effects
	ice formation ice nuclei	solar gravitation RT antigravity		geotropism gravitation
	snow	drag		gravitational instability
	onew .	environments		gravitational physiology
gravel d	deposits	Geopotential Research Mission		gravitropism
USE	gravels	gravimeters		gravity perception
averrele		gravitational constant		Gravity Probe B
gravels DEF	Coarse, granular aggregates, with	gravitational effects gravitational fields		Langley complex coordinator lower body negative pressure
	larger than sand grains, resulting from	gravitational waves		orbital resonances (celestial
	ural 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 soils	Lunar Gravity Simulator		swingby technique
	. gravels	pendulums Roche limit		weightlessness
RT	aggregates	similitude law	gravitat	ional fields
	alluvium	terminal velocity	DEF	Regions that give rise to forces of
	aquifers	weight (mass)		onal attraction.
	boreholes	weightlessness	UF	gravitational potential
	fans (landforms)	availation theory	RT	attraction
	grit sands	gravitation theory  GS gravitation theory		center of gravity Earth gravitation
	Sands	. supergravity		Earth-Moon system
gravime	eters	RT bimetric theories		field strength
	ed January 1991)	dark energy		field theory (physics)
	Instruments for measuring variations in	event horizon	~	ofields
	vitational field, generally by registering	gauge theory		geopotential
	ces in the weight of a constant mass as vimeter is moved from place to place.	grand unified theory gravitational fields		geopotential height Geopotential Research Mission
	r gravity meters.	gravitational wave antennas		GRACE mission
UF	gravity meters	gravitinos		grand unified theory
GS	measuring instruments	gravitons		gravimetry
	gravimeters	string theory		gravitation
RT	accelerometers	supersymmetry		gravitation theory
	densitometers geodesy	∞ theories		gravitational instability gravitational lenses
	geophysics	unified field theory		gravity anomalies
	gravimetry	gravitational binding energy		Lagrangian equilibrium points
	gravitation	(added May 1995)		multipolar fields
	microdensitometers	GS binding energy		satellite perturbation
arovima	ntus.	gravitational binding energy		Schwarzschild metric
gravime DEF	The measurement of gravity or gravi-	RT accretion disks astrophysics		stellar gravitation unified field theory
	acceleration, especially in geophysics	binary stars		Yang-Mills fields
and geo		∞ energy		
RT ∝	o acceleration	gravitational collapse		ional instability
	accelerometers	neutron stars		ed August 1997)
	geology	nuclear binding energy	GS	dynamic characteristics . dynamic stability
	geophysics gravimeters	stellar gravitation		. gravitational instability
	gravitational fields	gravitational collapse		stability
~	• measurement	GS collapse		. dynamic stability
	networks	gravitational collapse		. gravitational instability
	quantitative analysis	RT astrophysics	RT	astrophysics
aroviro	nontoro	black holes (astronomy)		galactic evolution
gravired DEF	Highly specialized nerve endings and	gravitational binding energy gravitational instability		gravitational collapse gravitational effects
	r organs located in skeletal muscles,	naked singularities		gravitational fields
	s, joints, and in the inner ear which	neutral currents		interstellar matter
furnish i	information to the brain with respect to	protogalaxies		Jeans theory
	osition, equilibrium and the direction of	quasars		perturbation
	onal forces.	relativistic plasmas		stellar evolution
GS	anatomy . sense organs	stellar cores		stellar gravitation
	. gravireceptors	stellar interiors stellar systems	gravitat	ional lenses
	otolith organs	supernovae	GS	gravitational effects
	receptors (physiology)	white holes (astronomy)		gravitational lenses
	. gravireceptors			lenses
	otolith organs	gravitational constant		. gravitational lenses
DT			ㅁㅜ	black balas (astronomy)
RT	oculogravic illusions sensitometry	DEF The coefficient of proportionality in Newton's law of gravitation.	RT	black holes (astronomy) focusing

## gravitational physiology

gravitational fields supergravity space flight stress light scattering massive compact halo objects **Gravity Probe B** gravitropism neutron stars An experiment designed to measure GS tropism general relativistic induced torques on a gyrorelativistic effects gravitropism scope in orbit about the Earth. relativity auxins stellar gravitation RT gravitational effects calmodulin white holes (astronomy) gyroscopes gravitational effects NASA programs gravity perception gravitational physiology relativity plant physiology physiology gravitational physiology GS plants (botany) Gravity Recovery and Climate Experiment vegetation growth acceleration stresses (physiology) mission (added August 2008) aerospace medicine gravitv centrifuging stress USE GRACE mission USE gravitation clinorotation gravity waves

DEF Waves in an interface between fluids of clinostats gravity anomalies fluid shifts (biology) The differences between the observed different density in which the restoring force is gravitational effects values of gravity at different points and the head up tilt theoretical calculated value. They are based on elastic waves hindlimb suspension a simple gravity model, usually modified in accordance with some generalized hypothesis of . capillary waves physiological acceleration gravity waves physiological effects variation in subsurface density as related to . baroclinic waves physiological responses surface topography. surface waves space flight stress GS anomalies . capillary waves stress (physiology) gravity anomalies gravity waves tilt-table test gravitation . baroclinic waves gravity anomalies cnoidal waves gravitational potential Earth gravitation gravitational fields gravitational waves USE gravitational fields Kelvin waves mascons planetary waves gravitational radiation ripples USE gravitational waves traveling ionospheric disturbances gravity assist trajectories USE swingby technique water waves gravitational wave antennas wind (meteorology) Devices for receiving propagating gravity gradient satellites gravitational fields produced by some change in Gravsat satellites artificial satellites the distribution of matter. USE Geopotential Research Mission . gravity gradient satellites antennas . . ATS . gravitational wave antennas gray gas ... ATS 1 .. LIGO (observatory) GS gases ... ATS 2 . LISA (observatory) . grav gas ... ATS 3 antenna design nongray atmospheres ... ATS 4 cryogenic equipment radiation absorption ... ATS 5 gravitation theory Rayleigh scattering ... ATS 6 thermal absorption ... ATS 7 gravitational waves ... ATS 8 DEF Hypothetical waves that travel at the gray scale ORBIS CAL satellite speed of light, by which gravitational attraction is DEF Images that are not colored or multiartificial gravity propagated. spectral. expulsion gravitational radiation celestial bodies RT aerial photography manned spacecraft RT image contrast OV-1 satellites celestial mechanics image enhancement OV-2 satellites Earth-Moon system image processing **OV-3** satellites gravitation imaging techniques OV-4 satellites gravity waves optical data processing OV-5 satellites LIGO (observatory) pattern recognition satellite attitude control LISA (observatory) satellite control ∞ radiation grazing spin reduction ∞ waves ingestion (biology) GS unmanned spacecraft . grazing gravitinos animals gravity gradiometers GS particles cattle measuring instruments GS . elementary particles deer . gravity gradiometers . . hypothetical particles goats gradients . gravitinos horses neutral particles
gravitinos ∞ gradiometers rangelands gravitation rural land use baryons RT swine gravity meters USÉ gravimeters decoupling grazing flow gravitation theory acoustic attenuation gravitons gravity perception acoustic ducts neutrinos (added August 2004) acoustic impedance particle mass DEF Process whereby a bodily structure or acoustic measurement supergravity organism (animal or plant) receives or detects a acoustic properties weak energy interactions gravity stimulus. The sensing may be direct or aeroacoustics indirect and may or may not initiate a reaction to o flow the stimulus. noise reduction The hypothetical elementary units of GS perception orifice flow . gravity perception acceleration stresses (physiology) gravitation which are equivalent in the electrons resonators in electromagnetic theory. shear flow GS particles acceleration tolerance elementary particles aerospace medicine grazing incidence . . hypothetical particles centrifuging stress Incidence at a small glancing angle. DEF ... gravitons
atomic structure gravitational effects incidence GS

gravitropism

head up tilt

proprioception

grazing incidence

angles (geometry)

aberration

RT

gravitation theory

gravitinos

grazing incidence telescopes United States plants (botany) optical measurement Great Salt Lake (UT) Greenland ray tracing GS landforms x ray optics GS lakes Great Salt Lake (UT) . islands Grazing Incidence Solar Telescope Earth resources Greenland USE GRIST (telescope) hydrology Arctic Ocean inland waters Denmark ponds grazing incidence telescopes telescopes Utah Green's functions grazing incidence telescopes Green's theorem **Great Smoky Mountains (NC-TN)** . GRIST (telescope) GS analysis (mathematics) grazing incidence GS landforms . real variables x ray astronomy . mountains Green's functions **Great Smoky Mountains (NC-TN)** x ray telescopes functions (mathematics) RT North Carolina Green's functions grazing lands Tennessee differential equations USE grasslands field theory (algebra) **GREB** satellites field theory (physics) (GALACTIC RADIATION EXPERIMENTAL greases SN half planes BACKGROUND SATELLITES)

Galactic Radiation Exp Background RT fats half spaces UF kerogen Jacobi integral sats **lubricants** many body problem GS artificial satellites oils **GREB** satellites petroleum products Green's theorem thickeners (materials) USE Green's functions Greece GS nations Great Basin (US) Gregorian antennas Greece GS landforms antennas Cyprus . structural basins Gregorian antennas Europe . Great Basin (US) antenna design Greek space program terraces (landforms) antenna feeds . . plateaus antenna radiation patterns greedy algorithms ... Great Basin (US) Cassegrain antennas (added March 2000) regions microwave antennas Any algorithm characterized by a pro-Great Basin (US) cedure that selects the most extreme element RT California Grenada from a set to satisfy a given goal. A recursive (added February 1989) Earth resources procedure for constructing a set of objects from folds (geology) GS landforms the smallest possible elements. formations . islands GS mathematical logic . . West Indies aeoloay . algorithms Nevada . Grenada . . greedy algorithms structural properties (geology) nations graph theory Utah Grenada heuristic methods Caribbean region minimax technique Great Britain optimization USE United Kingdom grenades ammunition Greek space program great circles incendiary ammunition (added August 1990) Circles which intersect a sphere and a pyrotechnics programs plane through its center. . space programs grid computing (computer networks) geometry GS . . European space programs . Euclidean geometry (added December 2003) Greek space program (LIMITED TO DISTRIBUTED COMPUTING RESOURCES; DOES NOT INCLUDE COMPUTATIONAL MESHES USED FOR MATHEMATICAL ANALYSIS) . . circles (geometry) Greece RT . great circles RT flight optimization green wave effect flight paths annual variations The use and development of largearound tracks botany scale distributed systems that enable locationtrajectories chlorophylls independent access to geographically dispersed effects computational resources such as supercomput-**Great Lakes (North America)** ers, data archives, and computational software; foliage GS lakes may also incorporate remote access to instruleaves . Great Lakes (North America) mentation and test-facility interfaces, and sup-. . Lake Erie greenhouse effect porting information resources. . . Lake Huron The heating of the Earth's surface becomputational grids (computer Lake Michigan cause outgoing long-wavelength terrestrial ranetworks) Lake Ontario diation is absorbed and re-emitted by the carbon Information Power Grid . Lake Superior dioxide and water vapor in the lower atmo-IPG (NASA Information Power Grid) RT Canada sphere and eventually returns to the surface. metacomputing canals atmospheric heat budget data processing Earth resources atmospheric radiation . distributed processing chlorofluorocarbons . . grid computing (computer inland waters International Field Year for Great climate change networks) Earth atmosphere computer networks Lakes resources ∞ effects information systems United States environment effects supercomputers water flow Gaia hypothesis global warming grid generation (mathematics) water resources insolation (added August 1988) Great Plains Corridor (North America) terrestrial radiation DEF Numerical generation of curvilinearcoordinate systems for the numerical solution of corridors thermal radiation . Great Plains Corridor (North partial differential equations. Venus clouds America) mesh generation (mathematics) computational fluid dynamics regions greenhouses . Great Plains Corridor (North Structures enclosed by glass or plastic computational grids devoted to the cultivation or protection of tender coordinates America) agriculture finite difference theory RT plants or to the production of plants out of

season.

RT

buildings

phytotrons

Canada

rural land use

plains

finite element method

multigrid methods

grid refinement (mathematics)

### grid refinement (mathematics)

structured grids (mathematics) scarfing automatic control unstructured grids (mathematics) automatic traffic advisory and Voronoi diagrams resolution grinding machines ∞ control grid refinement (mathematics) GS tools flight control (added August 2003) . machine tools flight management systems The dynamic modification of computa-. grinding machines fly by wire control tional grids using either derived or user-supplied RT lathes guidance (motion) criteria to produce a more highly resolved grid. ∞ machinery instrument landing systems mesh refinement (mathematics) metal grinding integrated mission control center computational grids milling machines landing aids grid generation (mathematics) missile control shapers ultrasonic cleaning radar navigation aridfree methods radio control (added May 2008) grinding mills remote control USE meshfree methods atomizers spacecraft control atomizing spacecraft guidance grids comminution traffic control (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN crushers impactors ground clouds computational grids mixers USE exhaust clouds RT coordinates Gripen aircraft ground crews ionizers USE JAS-39 aircraft personnel ∞ matrices GS ground crews mesh GRIST (telescope) maintenance reticles DEF An ESA Spacelab payload designed tube grids for grazing incidence solar phenomena. Used ground effect (aerodynamics) turnstile antennas for grazing incidence solar telescope. DEF Increase in the lift of an aircraft operwire grid lenses Grazing Incidence Solar Telescope ating close to the ground caused by reaction between high-velocity downwash from its wing grids (mathematics) telescopes grazing incidence telescopes USE computational grids or rotor and the ground. . . GRIST (telescope) RT aerodynamic drag Griffith crack energy spectra aerodynamics RT crack closure solar cosmic rays air cushion landing systems crack propagation Spacelab cushions fracture mechanics downwash sun glass drag ∞ theories grit ∞ effects abrasives ground resonance Griffon aircraft gravels iet blast effects USE Nord 1500 aircraft particles sands peripheral jet flow Grigg-Skjellerup comet sediments wakes celestial bodies wing-in-ground effect vehicles . comets grooves . Grigg-Skjellerup comet GS grooves ground effect (communications) RT ∞ coma V grooves DEF The effect of ground conditions on radio communications. comet tails . riblets solar system corrugating RT echoes solar wind grooving ∞ effects electromagnetic interference **Grignard reactions** grooving electromagnetic noise chemical reactions UF fluting radio attenuation **Grignard reactions** cutting signal fading catalysts grinding (material removal) wave reflection grooves GRIN (optics) knurling ground effect machines gradient index optics USE machining air cushion vehicles DTMB-111 ground effect machine micromachining grinding milling (machining) DTMB-430 ground effect machine (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN striation hovercraft ground effect machines grinding (material removal) gross national product Cushioncraft ground effect machine DEF The total value of the goods and ser-GETOL aircraft grinding (comminution) vices produced in a nation during a specific hovercraft ground effect machines pulverizing period and also comprising the total expendi-Westland ground effect machines comminution tures by consumers and government plus gross wing-in-ground effect vehicles grinding (comminution) private investment. Used for GNP. RT ∞ aircraft UF GNP commercial aircraft atomizing compounding GS products ∞ effects gross national product crushing ∞ flight vehicles commerce disintegration RT flying platforms grinding (material removal) hovering econometrics mixing lifting rotors finance machinery grinding (material removal) industries ∞ military aircraft grinding (material removal) passenger aircraft metal grinding ground based control peripheral jet flow abrasion GS ground based control rapid transit systems countersinking . air traffic control research aircraft cutting . . automated en route ATC ∞ subsonic aircraft ∞ grinding . radar approach control surface vehicles grinding (comminution) air traffic controllers (personnel) ∞ transport vehicles grooving aircraft approach spacing V/STOL aircraft machining aircraft control vehicles metal cutting airport surface detection equipment water takeoff and landing aircraft micromachining airport towers ground handling planing approach

approach control

GS materials handling

polishing

. ground handling data acquisition ∞ tests RT air cargo data collection platforms wing flow method tests downlinking baggage crew procedures (preflight) Global Tracking Network ground tracks ∞ facilities 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; flight operations integrated global ocean station hangars systems mobile lounges Jodrell Bank Observatory tractors land mobile satellite service the satellite's apparent path over the ground. ground tracks
. satellite ground tracks
area navigation networks ground operational support system ocean data acquisitions systems GOSS (support system) pollution monitoring flight paths ground support equipment Space Flight Tracking and Data great circles ground operational support Network orbits system tracking stations ∞ paths support systems weather stations ∞ tracks . ground operational support system ground support equipment ground truth DEF That equipment on the ground, includweapon systems DEF Data obtained on the ground concernground operational support ing all implements, tools, and devices (mobile or ing the significance of anomalies observed in fixed), required to inspect, test, adjust, calibrate, system remote sensing to help interpretation. appraise, gage, measure, repair, overhaul, as-RT ∞ systems aerial photography semble, transport, safeguard, record, store, or aerial reconnaissance ground penetrating radar otherwise function in support of a rocket, space Airborne Integrated Reconnaissance vehicle, or the like, either in the research and (added August 1995) System DEF A radar imaging technique in which coherent background propagation of the received reflected wavefield forms a spatial image development phase or in operational phase, or crop identification in support of the guidance system used with the imagery in situ measurement missile, vehicle, or the like. ground support equipment . ground operational support system air traffic control of the scattering interface within the region of GS photointerpretation interest. photoreconnaissance spectrophotography GS radar aircraft maintenance ground penetrating radar airport planning auxiliary power sources ballistic cameras RT archaeology Mars Reconnaissance Orbiter ground water (added February 1991) nondestructive tests planetary mapping DEF That part of the subsurface water that Cape Kennedy launch complex is in the zone of saturation, including underradar geology command and control ground streams. soil mapping command guidance groundwater synthetic aperture radar crawler tractors geophysical fluids GS tomography Earth terminal measurement system ground water equipment water ground resonance flight control . inland waters DEF Mechanical phenomenom occurring gantry cranes . ground water when a rotor, operating within a certain speed handling equipment aquifers range, experiences coupling between a rotor landing aids Earth resources in-plane mode and a model support system launching bases fresh water mode, causing vibration in the system. launching pads limnology lysimeters aerodynamic stability launching sites ground effect (aerodynamics) maintenance potable water helicopters missile launchers soil pollution rotary wings missile storage springs (water) rotor aerodynamics missiles surface water ordnance water flow ground speed propellant storage water resources GS rates (per time) radio telemetry water runoff ground speed refueling water sampling velocity rocket launchers water tables ground speed satellite ground support wells airspeed ∞ spacecraft high speed storable propellants ground wave propagation low speed ∞ test equipment GS transmission tracking networks . wave propagation ground squirrels tracking stations . ground wave propagation GS animals radio waves . vertebrates ground support systems selective fading . . mammals support systems sky waves . . . rodents ground support systems . . . . squirrels commonality . . . . ground squirrels ground wind  $\infty$  systems wind (meteorology) ground state ground tests ground wind GS level (quantity) GS ground tests air currents . energy levels cold flow tests atmospheric circulation . ground state . prelaunch tests cyclones atomic energy levels . static firing gust loads atomic theory aircraft runup gusts density functional theory captive tests monsoons electron states crew procedures (preflight) squalls storms (meteorology) quantum theory electric equipment tests engine tests tornadoes yrast state wind direction flight tests full scale tests ground stations wind effects GS stations missile tests wind erosion . ground stations prefiring tests wind pressure . Deep Space Instrumentation preflight operations wind profiles Facility space electric rocket tests wind shear . . Earth terminals stability tests wind velocity . . integrated mission control center static tests windmills (windpowered machines)

test firing

. . polystation doppler tracking system

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 voice communication

### ground-to-air missiles

USE surface to air missiles

#### groundwater

USE ground water

#### Group 1A compounds

USE alkali metal compounds

#### ∞ Group 1B compounds

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

RT ∞ chemical compounds copper compounds noble metals silver compounds

#### Group 2A compounds

alkaline earth compounds

#### ∞ Group 2B compounds

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

cadmium compounds ∞ chemical compounds

mercury compounds zinc compounds

#### ∞ Group 3A compounds

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

aluminum compounds

boron compounds ∞ chemical compounds gallium compounds indium compounds

## 

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

actinide series compounds

∞ chemical compounds curium compounds rare earth compounds scandium compounds yttrium compounds

## ∞ Group 4A compounds

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

carbon compounds ∞ chemical compounds

germanium compounds lead compounds silicon compounds tin compounds

#### ∞ Group 4B compounds

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

RT ∞ chemical compounds hafnium compounds titanium compounds zirconium compounds

#### 

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

RT antimony compounds arsenic compounds bismuth compounds ∞ chemical compounds nitrogen compounds oxynitrides phosphorus compounds

#### $\, \, \varpi \, \, \text{Group 5B compounds} \,$

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

RT ∞ chemical compounds niobium compounds tantalum compounds vanadium compounds

#### $\infty$ Group 6A compounds

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

chalcogenides ∞ chemical compounds polonium compounds selenium compounds sulfur compounds tellurium compounds

#### ∞ Group 6B compounds

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

LISTED BELOW)

∞ chemical compounds chromium compounds molybdenum compounds tungsten compounds

#### Group 7A compounds

USE halogen compounds

## $\, \, \varpi \, \, \text{Group 7B compounds} \,$

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

RT ∞ chemical compounds manganese compounds rhenium compounds technetium compounds

#### ∞ Group 8 compounds

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

RT ∞ chemical compounds cobalt compounds iridium compounds iron compounds nickel compounds osmium compounds platinum compounds rhodium compounds

### group behavior

USE group dynamics

#### group dynamics

group behavior UF dependence RT ∞ dynamics ethnic factors problem solving sociology

#### group technology (manufacturing)

(added April 2000)

DEF A manufacturing methodology where production processes are organized into groups or cells based on similarities in the manufacturing requirements of product parts or production equipment capabilities.

ÚF cellular manufacturing

manufacturing GS

group technology (manufacturing) production engineering

## group technology (manufacturing)

computer aided manufacturing industrial management operations research process control (industry) production management

## group theory

GŚ algebra

group theory

. . homomorphisms

. . . automorphisms

. . . monoids

. subgroups RT chiral dynamics

chirality fibers (mathematics)

lie groups supergravity supersymmetry

∞ theories

**group velocity**DEF The velocity of a wave disturbance as a whole, i.e., of an entire group of component simple harmonic waves.

GS rates (per time) . group velocity

velocity

group velocity

beat frequencies harmonic motion phase velocity propagation velocity quantum mechanics wave propagation

#### ∞ groups

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

categories classes subdivisions

#### grout

RT amorphous materials cements

clays concretes

 ∞ construction materials mortars (material)

mud plasters tiles

## growth

hypertrophy maturing growth

## GS

. crystal growth

. . Czochralski method

. . directional solidification (crystals)

. . epitaxy

... atomic layer epitaxy

electroepitaxy

... liquid phase epitaxy molecular beam epitaxy

vapor phase epitaxy

. . hydrothermal crystal growth

. . protein crystal growth

. . traveling solvent method

. . Verneuil process

. vegetation growth

. . crop growth

. nanostructure growth accumulations

angiogenesis crop calendars

evolution (development)

 $\infty$  formation germination increasing inflating ontogeny phytotrons shrinkage sintering swelling timber vigor timberline tissue engineering

trends viability warpage

	youtn	RI	CYCIIC AMP		optical measuring instruments
arowth	chambers	guano	sines	,	∞ sensors
0	phytotrons	DEF		`	solar sensors
002	phytotions		of guanine and ribose. Used for vernine.		spacecraft instruments
arouth	hormone	UF	vernine		star trackers
-		GS	organic compounds		Star trackers
	ed August 2004) pituitary hormones	as	. carbohydrates	quide v	/anes
USE	pituitary normones		glucosides	DEF	Control surfaces that may be moved
0			nucleosides		against a rocket's jetstream, used to
	an aircraft		guanosines		the direction of the jet flow for thrust
GS	Grumman aircraft . A-6 aircraft	RT			control. Used for jetavators.
			ribonucleic acids		jetavators
	. C-1A aircraft . C-2 aircraft		Tiboriucicio doldo	GS	control surfaces
	. E-2 aircraft	guards	s (shields)	ao	. guide vanes
	. F-9 aircraft		∞ barriers		jet vanes
	. F-14 aircraft		coverings		vanes
	. F-111 aircraft		housings		guide vanes
	. Jetstream aircraft		safety devices		jet vanes
	. OV-1 aircraft		safety management	RT	
DT .	o aircraft		shielding		hydrofoils
111 ~	AWACS aircraft				thrust vector control
	AVAOS aliciait	Guater	nala		
Grumm	an OV-1C aircraft	GS	nations	auided	missile submarines
USE			. Guatemala	•	Polaris submarines
USE	OV-1 all Craft	RT	Central America	GS	
0					. ships
	sen constant	guayul	e		submarines
GS	constants		A desert shrub native to southwestern		guided missile submarines
ОТ	. Gruneisen constant		States and north Mexico that produces		. underwater vehicles
RT	compressibility		ric isoprene essentially identical to that		submarines
	specific heat		by Hevea rubber trees in southeast Asia.		guided missile submarines
	thermal expansion	GS	plants (botany)	RT	
			. quayule		Poseidon missiles
GTDS		RT	brush (botany)		1 dedicent missings
USE	Goddard Trajectory Determination		rubber	Guinea	1
	System			GS	nations
		GUI (c	omputers)	ao	. Guinea
Guadel	oupe		graphical user interface	RT	Africa
GS	landforms		3		Amou
	. islands	quidan	ce (motion)	guinea	pigs
	West Indies		The process of directing the move-	GS	animals
	Guadeloupe		of an aeronautical vehicle or space ve-	0.0	. vertebrates
	nations		rith particular reference to the selection of		mammals
	. France	a flight			rodents
	Guadeloupe	ĞS	guidance (motion)		guinea pigs
			. aircraft guidance		· · · · gamea p.ge
Guam			. beam rider guidance	Gulf of	Alaska
GS	landforms		. command guidance	GS	gulfs
	. islands		. entry guidance (STS)	0.0	. Gulf of Alaska
	Pacific islands		. inertial guidance	RT	Alaska
	Guam		strapdown inertial guidance		Pacific Ocean
	nations		injection guidance		r domo occari
	. United States		. map matching guidance	Gulf of	California (Mexico)
	Guam		. midcourse guidance	GS	gulfs
			. reentry guidance		. Gulf of California (Mexico)
guanetl	nidine		. rendezvous guidance	RT	Mexico
GS	organic compounds		. spacecraft guidance		Pacific Ocean
	. amines		satellite guidance		
	diamines		. standardized space guidance	Gulf of	Mexico
	guanidines		. terminal guidance	GS	gulfs
	guanethidine		laser guidance		. Gulf of Mexico
	. cyclic compounds	RT	air navigation	RT	Alabama
	heterocyclic compounds		approach		Caribbean Sea
	guanethidine		ascent trajectories		Florida
			astrionics		Louisiana
guanidi	nes		automatic control		Mexico
GS	organic compounds		avionics		Mississippi
	. amines		control surfaces		Rio Grande (North America)
	diamines		flight control		texas
	guanidines		flight paths		
	guanethidine		ground based control	Gulf St	ream
	triaminoguanidinium azide		homing	GS	circulation
RT	perfluoroguanidine		homing devices		. water circulation
			impact prediction		water currents
guanine	es		landing		ocean currents
GS	bases (chemical)		manual control		Gulf Stream
	guanines		missiles	RT	Atlantic Ocean
	fungicides		navigation		Caribbean Sea
			∞ platforms		Lomonosov current
	. xanthines				
			pointing control systems		Sargasso Sea
	. xanthines	,	pointing control systems radio navigation		Sargasso Sea TOPEX
	. xanthines guanines	,			
	. xanthines guanines nitrogen compounds		radio navigation	gulfs	
	. xanthines guanines nitrogen compounds . xanthines		radio navigation remote control	gulfs DEF	
	. xanthines guanines nitrogen compounds . xanthines guanines		radio navigation remote control stationkeeping	DEF	TOPEX
	. xanthines guanines nitrogen compounds . xanthines guanines organic compounds		radio navigation remote control stationkeeping ∞ systems	DEF seas ex	TOPEX  Relatively large parts of oceans or
	. xanthines . guanines nitrogen compounds . xanthines . guanines organic compounds . cyclic compounds		radio navigation remote control stationkeeping ∞ systems trajectory control	DEF seas ex by an	TOPEX  Relatively large parts of oceans or stending far into the land, partly enclosed
	. xanthines guanines nitrogen compounds . xanthines guanines organic compounds . cyclic compounds heterocyclic compounds		radio navigation remote control stationkeeping ∞ systems trajectory control	DEF seas ex by an opened	TOPEX  Relatively large parts of oceans or tending far into the land, partly enclosed extensive sweep of the coasts, and
	. xanthines . guanines nitrogen compounds . xanthines . guanines organic compounds . cyclic compounds . heterocyclic compounds purines		radio navigation remote control stationkeeping ∞ systems trajectory control visual control	DEF seas ex by an opened largest	Relatively large parts of oceans or tending far into the land, partly enclosed extensive sweep of the coasts, and to the sea through straits. Gulfs are the

	indented than bays (topographic fea-	DT	. gunnery training		vortex avoidance
tures).	audéa	RT	artillery	GUT	
GS	gulfs Culf of Alaska		fire control	USE	grand unified theory
	. Gulf of Alaska		guns (ordnance)	USE	grand unified theory
	. Gulf of California (Mexico) . Gulf of Mexico		howitzers	Gutenbe	era zone
	. Persian Gulf		weapons		models
RT	bays (topographic features)			0.0	. Gutenberg zone
111	Delaware Bay (US)	gunpow			regions
	inlets (topography)	USE	gun propellants		. Gutenberg zone
	topography			RT	acoustic velocity
		∞ guns			seismic waves
Gum ne	ebula	SN	(USE OF A MORE SPECIFIC TERM IS		
GS	celestial bodies		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)	guy wire	es
	. nebulae	RT	crossed field guns	UF	stays
	Gum nebula		electron guns	GS	wire .
RT	galaxies		gas guns		. guy wires
	irregular galaxies		guns (ordnance)	RT	anchors (fasteners)
	Orion nebula		hypervelocity guns		structural members
aum vul	canizates		plasma guns	Guyana	
_	vulcanized elastomers			UF	British Guinea
UUL	vuicanizeu elastoniers		rdnance)		nations
Gumbel	theory	UF	cannons	0.0	. Guyana
	range (extremes)	GS	weapons	RT	Caribbean region
	,		. guns (ordnance)		South America
gums (s	substances)		artillery		
GS	gums (substances)		howitzers	gymnast	
	. rosin		precision guided projectiles rifles	USE	physical exercise
RT	chitin	RT	ammunition		
	polysaccharides	пі	explosives	gynecol	0,
	rubber		gun propellants	GS	medical science
	tars		gun turrets	DT	. gynecology
aun lau	nohoro		gunfire	RT	females
gun lau SN	(LIMITED TO ORDNANCE DEVICES FOR		gunnery training		genitourinary system
SIN	FIRING MISSILES AND ROCKETS WITH	~	guns	gypsum	
	INITIAL ATTITUDE CONTROL)		heat of combustion	DEF	The mineral consisting primarily of fully
DEF	Ordnance devices for firing missiles		hypervelocity guns		calcium sulfate (calcium sulfate dihy-
	kets with initial attitude control.		incendiary ammunition	drate).	calciam canale (calciam canale am)
GS	launchers . gun launchers		projectiles	GŚ	minerals
RT	artillery		propellants		. gypsum
	barrels		Sabot projectiles		plasters
-	gunfire				. gypsum
	howitzers	gust all	eviators	RT	calcium
	hypervelocity launchers	RT	deflectors		chalk
	missile launchers		gusts		rocks
	rocket catapults		mission adaptive wings		sedimentary rocks
	rocket launchers		spoilers		sulfates
	Sabot projectiles		turbulent flow	eu mala	
			vortex alleviation	gyrals	avreo.
	pellants			USE	gyres
UF	gunpowder	gust loa		gyration	1
GS	propellants	GS	aerodynamic forces . aerodynamic loads	· · ·	gyration
RT	. gun propellants explosives		. gust loads		. precession
111	guns (ordnance)		loads (forces)		. Larmor precession
	guils (ordinance)		. dynamic loads		proton precession
gun tur	rets		aerodynamic loads		quenching (atomic physics)
	cupolas		,		
			dust loads		. revolving
	guns (ordnance)		gust loads transient loads		. rotation
~	guns (ordnance) turret		•		. rotation autorotation
	,		transient loads <b>gust loads</b> . random loads		. rotation . autorotation . corotation
gunfire	turret		transient loads gust loads . random loads gust loads		. rotation autorotation corotation counter rotation
	artillery fire	RT	transient loads gust loads . random loads . gust loads atmospheric turbulence		<ul> <li>rotation</li> <li>autorotation</li> <li>corotation</li> <li>counter rotation</li> <li>Earth rotation</li> </ul>
gunfire	artillery fire fire control	RT	transient loads gust loads . random loads gust loads atmospheric turbulence blast loads		. rotation . autorotation . corotation . counter rotation . Earth rotation . galactic rotation
gunfire	artillery fire fire control firing (igniting)	RT	transient loads gust loads . random loads gust loads atmospheric turbulence blast loads ground wind		. rotation . autorotation . corotation . counter rotation . Earth rotation . galactic rotation . image rotation
gunfire	artillery fire fire control firing (igniting) gun launchers	RT	transient loads gust loads . random loads gust loads atmospheric turbulence blast loads ground wind gusts		. rotation . autorotation . corotation . counter rotation . Earth rotation . galactic rotation . image rotation . lunar rotation
gunfire	artillery fire fire control firing (igniting) gun launchers guns (ordnance)	RT	transient loads gust loads . random loads gust loads atmospheric turbulence blast loads ground wind gusts structural design criteria		. rotation . autorotation . corotation . counter rotation . Earth rotation . galactic rotation . image rotation . lunar rotation . molecular rotation
gunfire	artillery fire fire control firing (igniting) gun launchers	RT	transient loads gust loads . random loads . rgust loads atmospheric turbulence blast loads ground wind gusts structural design criteria wind pressure		. rotation . autorotation . corotation . corotation . Earth rotation . galactic rotation . image rotation . lunar rotation . molecular rotation . muon spin rotation
gunfire	artillery fire fire control firing (igniting) gun launchers guns (ordnance) projectiles	RT	transient loads gust loads . random loads gust loads atmospheric turbulence blast loads ground wind gusts structural design criteria		. rotation . autorotation . corotation . counter rotation . Earth rotation . galactic rotation . image rotation . lunar rotation . molecular rotation
gunfire RT	artillery fire fire control firing (igniting) gun launchers guns (ordnance) projectiles iodes		transient loads gust loads . random loads gust loads atmospheric turbulence blast loads ground wind gusts structural design criteria wind pressure wing loading		rotation . autorotation . corotation . counter rotation . Earth rotation . galactic rotation . image rotation . lunar rotation . molecular rotation . muon spin rotation . planetary rotation
gunfire RT Gunn d	artillery fire fire control firing (igniting) gun launchers guns (ordnance) projectiles	gustatoi	transient loads gust loads . random loads gust loads atmospheric turbulence blast loads ground wind gusts structural design criteria wind pressure wing loading  y perception		rotation autorotation corotation counter rotation galactic rotation image rotation ulmar rotation molecular rotation muon spin rotation planetary rotation satellite rotation
gunfire RT Gunn d	artillery fire fire control firing (igniting) gun launchers guns (ordnance) projectiles  iodes electronic equipment	gustatoi	transient loads gust loads . random loads gust loads atmospheric turbulence blast loads ground wind gusts structural design criteria wind pressure wing loading		. rotation . autorotation . corotation . corotation . counter rotation . Earth rotation . galactic rotation . image rotation . lunar rotation . molecular rotation . muon spin rotation . planetary rotation . satellite rotation . stellar rotation . stellar rotation . stellar rotation
gunfire RT Gunn d	artillery fire fire control firing (igniting) gun launchers guns (ordnance) projectiles  iodes electronic equipment . diodes	gustatoi	transient loads gust loads . random loads gust loads atmospheric turbulence blast loads ground wind gusts structural design criteria wind pressure wing loading  y perception		rotation . autorotation . corotation . counter rotation . Earth rotation . galactic rotation . image rotation . lunar rotation . molecular rotation . muon spin rotation . planetary rotation . stellar rotation . superrotation
gunfire RT Gunn d GS	artillery fire fire control firing (igniting) gun launchers guns (ordnance) projectiles  iodes electronic equipment . diodes semiconductor diodes Gunn diodes transferred electron devices	gustator USE <b>gusts</b>	transient loads gust loads . random loads . random loads atmospheric turbulence blast loads ground wind gusts structural design criteria wind pressure wing loading  y perception taste	RT	rotation . autorotation . corotation . counter rotation . Earth rotation . galactic rotation . image rotation . lunar rotation . molecular rotation . muon spin rotation . planetary rotation . satellite rotation . stellar rotation . stellar rotation . superrotation . superrotation
gunfire RT Gunn d	artillery fire fire control firing (igniting) gun launchers guns (ordnance) projectiles  iodes electronic equipment diodes . semiconductor diodes Gunn diodes transferred electron devices gallium arsenides	gustatoi USE	transient loads gust loads . random loads gust loads atmospheric turbulence blast loads ground wind gusts structural design criteria wind pressure wing loading  y perception taste  turbulence		. rotation . autorotation . corotation . corotation . counter rotation . Earth rotation . galactic rotation . Image rotation . lunar rotation . molecular rotation . molecular rotation . muon spin rotation . planetary rotation . satellite rotation . stellar rotation . stellar rotation . solar rotation . solar rotation . superrotation . superrotation . superrotation
gunfire RT Gunn d GS	artillery fire fire control firing (igniting) gun launchers guns (ordnance) projectiles  iodes electronic equipment . diodes semiconductor diodes Gunn diodes transferred electron devices gallium arsenides negative resistance devices	gustator USE <b>gusts</b>	transient loads gust loads . random loads gust loads atmospheric turbulence blast loads ground wind gusts structural design criteria wind pressure wing loading  y perception taste  turbulence . atmospheric turbulence		. rotation . autorotation . corotation . corotation . counter rotation . Earth rotation . galactic rotation . image rotation . lunar rotation . molecular rotation . muon spin rotation . planetary rotation . satellite rotation . stellar rotation . stellar rotation . clinorotation . clinorotation . superrotation angular velocity coning motion
gunfire RT Gunn d GS	artillery fire fire control firing (igniting) gun launchers guns (ordnance) projectiles  iodes electronic equipment diodes . semiconductor diodes Gunn diodes transferred electron devices gallium arsenides	gustator USE <b>gusts</b>	transient loads gust loads . random loads gust loads atmospheric turbulence blast loads ground wind gusts structural design criteria wind pressure wing loading  y perception taste  turbulence . atmospheric turbulence gusts		. rotation . autorotation . corotation . corotation . counter rotation . Earth rotation . galactic rotation . lunar rotation . unar rotation . molecular rotation . molecular rotation . muon spin rotation . planetary rotation . satellite rotation . stellar rotation . stellar rotation . solar rotation . solar rotation . superrotation . superrotation . superrotation angular velocity coning motion
gunfire RT Gunn d GS	artillery fire fire control firing (igniting) gun launchers guns (ordnance) projectiles  iodes electronic equipment . diodes semiconductor diodes transferred electron devices gallium arsenides negative resistance devices semiconductor devices	gustator USE <b>gusts</b>	transient loads gust loads . random loads . random loads atmospheric turbulence blast loads ground wind gusts structural design criteria wind pressure wing loading  y perception taste  turbulence . atmospheric turbulence . gusts wind (meteorology)	∞	rotation . autorotation . corotation . counter rotation . Earth rotation . galactic rotation . image rotation . lunar rotation . molecular rotation . muon spin rotation . planetary rotation . stellar rotation . superrotation . superrotation . superrotation angular velocity coning motion motion spin dynamics
gunfire RT Gunn d GS RT	artillery fire fire control firing (igniting) gun launchers guns (ordnance) projectiles  iodes electronic equipment . diodes semiconductor diodes Gunn diodes transferred electron devices gallium arsenides negative resistance devices semiconductor devices ffect	gustator USE <b>gusts</b> GS	transient loads gust loads . random loads . random loads atmospheric turbulence blast loads ground wind gusts structural design criteria wind pressure wing loading  y perception taste  turbulence atmospheric turbulence . gusts wind (meteorology) . gusts	∞ gyrators	rotation . autorotation . corotation . corotation . counter rotation . Earth rotation . galactic rotation . Image rotation . Innar rotation . molecular rotation . molecular rotation . muon spin rotation . planetary rotation . satellite rotation . stellar rotation . stellar rotation . solar rotation . clinorotation . superrotation . superrotation angular velocity coning motion motion spin dynamics
gunfire RT Gunn d GS RT	artillery fire fire control firing (igniting) gun launchers guns (ordnance) projectiles  iodes electronic equipment . diodes semiconductor diodes funn diodes transferred electron devices gallium arsenides negative resistance devices semiconductor devices ffect eleffects	gustator USE <b>gusts</b>	transient loads gust loads . random loads gust loads atmospheric turbulence blast loads ground wind gusts structural design criteria wind pressure wing loading  y perception taste  turbulence . atmospheric turbulence . gusts wind (meteorology) . gusts clear air turbulence	∞ <b>gyrators</b> UF	rotation . autorotation . corotation . corotation . counter rotation . Earth rotation . galactic rotation . lunar rotation . molecular rotation . muon spin rotation . planetary rotation . satellite rotation . stellar rotation . solar rotation . clinorotation . superrotation . superrotation . superrotation . sincolar rotation . clinorotation . superrotation . superrotation angular velocity coning motion motion spin dynamics
gunfire RT Gunn d GS RT	artillery fire fire control firing (igniting) gun launchers guns (ordnance) projectiles  iodes electronic equipment diodes semiconductor diodes transferred electron devices gallium arsenides negative resistance devices semiconductor devices  ffect effects negative conductance	gustator USE <b>gusts</b> GS	transient loads gust loads . random loads gust loads atmospheric turbulence blast loads ground wind gusts structural design criteria wind pressure wing loading  y perception taste  turbulence . atmospheric turbulence . gusts wind (meteorology) . gusts clear air turbulence ground wind	∞ gyrators	rotation . autorotation . corotation . corotation . counter rotation . Earth rotation . galactic rotation . image rotation . lunar rotation . molecular rotation . molecular rotation . planetary rotation . stellar rotation . stellar rotation . stellar rotation . stellar rotation . superrotation . clinorotation . superrotation angular velocity coning motion motion spin dynamics  Tellegen theory microwave equipment
gunfire RT Gunn d GS RT	artillery fire fire control firing (igniting) gun launchers guns (ordnance) projectiles  iodes electronic equipment . diodes . semiconductor diodes funn diodes transferred electron devices gallium arsenides negative resistance devices semiconductor devices  ffect eeffects negative conductance negative resistance devices	gustator USE <b>gusts</b> GS	transient loads gust loads . random loads . random loads atmospheric turbulence blast loads ground wind gusts structural design criteria wind pressure wing loading  y perception taste  turbulence atmospheric turbulence . gusts wind (meteorology) . gusts clear air turbulence ground wind gust alleviators	∞ <b>gyrators</b> UF	rotation . autorotation . corotation . corotation . counter rotation . Earth rotation . galactic rotation . image rotation . lunar rotation . molecular rotation . muon spin rotation . planetary rotation . stellite rotation . stellite rotation . stellar rotation . signar rotation . superrotation . superrotation angular velocity coning motion motion spin dynamics  **Tellegen theory microwave equipment . gyrators
gunfire RT Gunn d GS RT	artillery fire fire control firing (igniting) gun launchers guns (ordnance) projectiles  iodes electronic equipment . diodes semiconductor diodes funn diodes transferred electron devices gallium arsenides negative resistance devices semiconductor devices  ffect effects negative conductance negative resistance devices semiconductor devices semiconductor devices	gustator USE <b>gusts</b> GS	transient loads gust loads . random loads . random loads atmospheric turbulence blast loads ground wind gusts structural design criteria wind pressure wing loading  y perception taste  turbulence atmospheric turbulence . gusts wind (meteorology) . gusts clear air turbulence ground wind gust alleviators gust loads	gyrators UF GS	rotation . autorotation . corotation . corotation . counter rotation . Earth rotation . galactic rotation . Image rotation . Image rotation . molecular rotation . molecular rotation . molecular rotation . planetary rotation . satellite rotation . stellar rotation . stellar rotation . solar rotation . solar rotation . clinorotation . superrotation angular velocity coning motion motion spin dynamics  Tellegen theory microwave equipment . gyrators . microwave filters
gunfire RT Gunn d GS RT	artillery fire fire control firing (igniting) gun launchers guns (ordnance) projectiles  iodes electronic equipment . diodes . semiconductor diodes funn diodes transferred electron devices gallium arsenides negative resistance devices semiconductor devices  ffect eeffects negative conductance negative resistance devices	gustator USE <b>gusts</b> GS	transient loads gust loads . random loads . random loads atmospheric turbulence blast loads ground wind gusts structural design criteria wind pressure wing loading  y perception taste  turbulence atmospheric turbulence . gusts wind (meteorology) . gusts clear air turbulence ground wind gust alleviators	gyrators UF GS	rotation . autorotation . corotation . corotation . counter rotation . Earth rotation . galactic rotation . lunar rotation . lunar rotation . molecular rotation . molecular rotation . planetary rotation . satellite rotation . satellite rotation . solar rotation . superrotation . superrotation . superrotation . superrotation spin dynamics  Tellegen theory microwave equipment . gyrators . microwave filters ferrites
gunfire RT Gunn d GS RT Gunn e	artillery fire fire control firing (igniting) gun launchers guns (ordnance) projectiles  iodes electronic equipment . diodes semiconductor diodes funn diodes transferred electron devices gallium arsenides negative resistance devices semiconductor devices  ffect effects negative conductance negative resistance devices semiconductor devices semiconductor devices	gustator USE <b>gusts</b> GS	transient loads gust loads . random loads . random loads atmospheric turbulence blast loads ground wind gusts structural design criteria wind pressure wing loading  y perception taste  turbulence . atmospheric turbulence . gusts wind (meteorology) . gusts clear air turbulence ground wind gust alleviators gust loads sea breeze	gyrators UF GS	rotation . autorotation . corotation . corotation . counter rotation . Earth rotation . galactic rotation . Image rotation . Image rotation . molecular rotation . molecular rotation . molecular rotation . planetary rotation . satellite rotation . stellar rotation . stellar rotation . solar rotation . solar rotation . clinorotation . superrotation angular velocity coning motion motion spin dynamics  Tellegen theory microwave equipment . gyrators . microwave filters
gunfire RT Gunn d GS RT Gunn e	artillery fire fire control firing (igniting) gun launchers guns (ordnance) projectiles  iodes electronic equipment diodes semiconductor diodes fect effect effect effects negative resistance devices semiconductor lasers	gustator USE <b>gusts</b> GS	transient loads gust loads . random loads gust loads atmospheric turbulence blast loads ground wind gusts structural design criteria wind pressure wing loading  y perception taste  turbulence . atmospheric turbulence . gusts wind (meteorology) . gusts clear air turbulence ground wind gust alleviators gust loads sea breeze storm damage	gyrators UF GS	rotation . autorotation . corotation . corotation . counter rotation . Earth rotation . galactic rotation . lunar rotation . molecular rotation . muon spin rotation . planetary rotation . satellite rotation . stellar rotation . solar rotation . clinorotation . superrotation . superrotation spin dynamics  Tellegen theory microwave equipment . gyrators . microwave filters ferrites microwave switching

waveguides

gyres

Closed circulatory systems in a body of water, larger than an eddy or a whirlpool. There is a circular motion of water in each of the major ocean basins, centered on a subtropical highpressure region. These movements are generated by connective flow of warm surface water poleward, by the deflective effect of the Earth's rotation and by the effects of prevailing winds. The water within each gyre turns clockwise in the Northern Hemisphere and counterclockwise in the Southern Hemisphere. Acceleration causes sea level to fall along mainland coasts; deceleration leads to rise.

gyrals RT air water interactions 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

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

DEF 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-

RT control moment gyroscopes aimbals 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

 $RT \, \infty \, aircraft$ 

Gyrodyne DSN-3 helicopter USE QH-50 helicopter

Gyrodyne military aircraft USE QH-50 helicopter

gyrofrequency DEF The na

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 GS

gyromagnetism gyrofrequency

Larmor radius

gyroplanes

RT

helicopters USE

gyros

USE gyroscopes

gyroscope fluids

RT damping

∞ fluids

rotary gyroscopes suspending (hanging)

gyroscopes

GS

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 gyroscopic drift

gyrostats 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 GS

gyroscopic coupling

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 stability

. . motion stability

. . . attitude 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

USE cyclotron resonance devices

gyrotropism

tropism GS

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 7 31 Honorphio.
	solar spectra	booster rocket engines	H-53 helicopter
	Solai Speciia	H-1 engine	UF CH-53 helicopter
H beta l	ino		HHX helicopter
GS		liquid propellant rocket engines	Sikorsky S-65 helicopter
us	spectra	H-1 engine	, ,
	. radiation spectra	RT Saturn 1 launch vehicles	GS passenger aircraft . <b>H-53 helicopter</b>
	electromagnetic spectra	Saturn 1B launch vehicles	·
	line spectra	II O a andreal	Sikorsky aircraft
	H lines	H-2 control	. H-53 helicopter
	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	na line	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	4	military helicopters
	Balmer series	H-2 orbiting plane	H-54 helicopter
	emission spectra	USE HOPE aerospace plane	RT ∞ aircraft
	solar spectra	001 110. I uo. 00 puoto piuno	
	Solai Speciia	H-13 helicopter	H-56 helicopter
H I regi	one	USE OH-13 helicopter	GS passenger aircraft
-		OOL OII TO Helicopter	. H-56 helicopter
us	celestial bodies	H-17 helicopter	•
	. nebulae	UF Flying Crane helicopter	Sikorsky aircraft
	H I regions	, ,	. 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
	hydrogen atoms	H-17 helicopter	rotary wing aircraft
	interstellar gas	research vehicles	helicopters
	interstellar matter	. research aircraft	military helicopters
	neutral atoms	H-17 helicopter	H-56 helicopter
	neutral gases	V/STOL aircraft	RT ∞ aircraft
	radio spectra	. rotary wing aircraft	
	·	helicopters	H-60 Helicopter
H II regi	ions	H-17 helicopter	DEF The Black Hawk (Sikorsky) assault he-
GS	celestial bodies	RT ∞ aircraft	licopter. Used for Black Hawk assault helicopter.
	. nebulae		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
		helicopters	∞ military aircraft
	ionized gases	military helicopters	Willinary ancian
		H-19 helicopter	H-126 aircraft
H lines		RT ∞ aircraft	
SN	(EXCLUDES SURFACES OF CONSTANT MAGNETIC FIELD STRENGTH)	m ∞ anoralt	UF Hunting H-126 aircraft GS BAC aircraft
GS	spectra	U 21 holicoptor	
ao	. radiation spectra	H-21 helicopter	H-126 aircraft
		USE CH-21 helicopter	jet aircraft
			11.400
	electromagnetic spectra	11 00 h - 1: h - :	H-126 aircraft
	electromagnetic spectra line spectra	H-23 helicopter	monoplanes
	electromagnetic spectra line spectra H lines	H-23 helicopter USE <b>OH-23 helicopter</b>	monoplanes . <b>H-126 aircraft</b>
	electromagnetic spectra line spectra H lines H alpha line	USE OH-23 helicopter	monoplanes . <b>H-126 aircraft</b> research vehicles
	electromagnetic spectra line spectra H lines H alpha line H beta line	USE OH-23 helicopter H-25 helicopter	monoplanes . <b>H-126 aircraft</b> research vehicles . research aircraft
	electromagnetic spectra line spectra H lines H alpha line H beta line H gamma line	USE OH-23 helicopter  H-25 helicopter  GS Boeing aircraft	monoplanes . <b>H-126 aircraft</b> research vehicles
RT	electromagnetic spectra line spectra H lines H alpha line H beta line H gamma line absorption spectra	USE OH-23 helicopter  H-25 helicopter GS Boeing aircraft . H-25 helicopter	monoplanes . H-126 aircraft research vehicles . research aircraft H-126 aircraft RT ∞ aircraft
RT	electromagnetic spectra line spectra H lines H alpha line H beta line H gamma line absorption spectra Balmer series	USE OH-23 helicopter  H-25 helicopter GS Boeing aircraft . H-25 helicopter V/STOL aircraft	monoplanes . H-126 aircraft research vehicles . research aircraft H-126 aircraft
RT	electromagnetic spectra line spectra H lines H alpha line H beta line H gamma line absorption spectra Balmer series D lines	USE OH-23 helicopter  H-25 helicopter  GS Boeing aircraft . H-25 helicopter V/STOL aircraft . rotary wing aircraft	monoplanes . H-126 aircraft research vehicles . research aircraft H-126 aircraft RT ∞ aircraft jet flaps
RT	electromagnetic spectra line spectra H lines H alpha line H beta line H gamma line absorption spectra Balmer series D lines emission spectra	USE OH-23 helicopter  H-25 helicopter GS Boeing aircraft . H-25 helicopter V/STOL aircraft . rotary wing aircraft . helicopters	monoplanes . H-126 aircraft research vehicles . research aircraft H-126 aircraft RT ∞ aircraft
RT	electromagnetic spectra line spectra H lines H alpha line H beta line H gamma line absorption spectra Balmer series D lines	USE OH-23 helicopter  H-25 helicopter GS Boeing aircraft . H-25 helicopter V/STOL aircraft . rotary wing aircraft helicopters tandem rotor helicopters	monoplanes . H-126 aircraft research vehicles . research aircraft H-126 aircraft RT ∞ aircraft jet flaps
RT	electromagnetic spectra line spectra H lines H alpha line H beta line H gamma line absorption spectra Balmer series D lines emission spectra	USE OH-23 helicopter  H-25 helicopter GS Boeing aircraft . H-25 helicopter V/STOL aircraft . rotary wing aircraft . helicopters	monoplanes . H-126 aircraft research vehicles . research aircraft H-126 aircraft RT ∞ aircraft jet flaps habitability
RT	electromagnetic spectra line spectra H lines H alpha line H gamma line absorption spectra Balmer series D lines emission spectra K lines	USE OH-23 helicopter  H-25 helicopter GS Boeing aircraft . H-25 helicopter V/STOL aircraft . rotary wing aircraft helicopters tandem rotor helicopters	monoplanes . H-126 aircraft research vehicles . research aircraft H-126 aircraft RT ∞ aircraft jet flaps  habitability RT ecology
RT	electromagnetic spectra line spectra H lines H alpha line H gamma line absorption spectra Balmer series D lines emission spectra K lines Lyman spectra	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	monoplanes . H-126 aircraft research vehicles . research aircraft H-126 aircraft RT ∞ aircraft jet flaps  habitability RT ecology environmental control
RT	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 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	monoplanes . H-126 aircraft research vehicles . research aircraft H-126 aircraft RT ∞ aircraft jet flaps  habitability RT ecology environmental control environments
RT	electromagnetic spectra line spectra H lines H lapha line H beta line H gamma line absorption spectra Balmer series D lines emission spectra K lines Lyman spectra Paschen series Rydberg series	USE OH-23 helicopter  GS Boeing aircraft . H-25 helicopter V/STOL aircraft . rotary wing aircraft . helicopters tandem rotor helicopters H-25 helicopter  RT antisubmarine warfare aircraft	monoplanes . H-126 aircraft research vehicles . research aircraft H-126 aircraft RT ∞ aircraft jet flaps  habitability RT ecology environmental control environments
RT	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 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	monoplanes . H-126 aircraft research vehicles . research aircraft H-126 aircraft RT ∞ aircraft jet flaps  habitability RT ecology environmental control environments shelters  habitats
RT H wave:	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 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	monoplanes . H-126 aircraft research vehicles . research aircraft H-126 aircraft RT ∞ aircraft jet flaps  habitability RT ecology environmental control environments shelters  habitats
	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 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	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)
H wave	electromagnetic spectra line spectra H lines H lapha 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 OH-23 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  H-43 helicopter	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) DEF The areas or types of environment in

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	. habitats		metal halides	GS	languages
RT	animals		hafnium iodides		. programming languages
	∘ biology		. iodine compounds		HAL/S (language)
				DT	
	botany		iodides	RT	computer programming
	conservation		hafnium iodides		computers
	Earth resources				
	ecology	hafniun	n isotopes	Halden	Boiling Water Reactor
	endangered species		chemical elements	UF	Halden reactor
		ao		01	
	environment effects		. hafnium		HBWR reactor
	environments		hafnium isotopes	GS	nuclear reactors
	wildlife		. nuclides		. liquid cooled reactors
			isotopes		water cooled reactors
l l- !4 -					
habits			hafnium isotopes		boiling water reactors
RT	learning		metals		Halden Boiling Water Reactor
	psychological factors		. transition metals		
	1.,		hafnium	Halden	reactor
habitus	tion (loorning)				
	tion (learning)		hafnium isotopes	USE	Halden Boiling Water Reactor
GS	learning				
	. habituation (learning)	hafniun	n oxides	Hale-Bo	opp comet
RT	conditioning (learning)	GS	chalcogenides	(addi	ed July 1998)
	conditioning (loanning)	ao			
			. oxides		Long-period comet discovered July 23,
hadrons	S		metal oxides		esignated C/1995 O1.
GS	particles		hafnium oxides	GS	celestial bodies
	. elementary particles		hafnium compounds		. comets
	hadrons		. hafnium oxides		Hale-Bopp comet
	baryons			RT	Oort cloud
	hyperons	hahniui	n		
	xi hyperons	(addi	ed November 1994)	half cor	nes
	**				
	omega-mesons	GS	chemical elements	GS	
	rho-mesons		. hahnium		. half cones
	sigma-mesons	RT ∘	∘ elements	RT	aerodynamic configurations
	•		o.oo.		
	mesons	6.49			circular cones
	eta-mesons	hail			conics
	hyperons	DEF	Precipitation in the form of spheroidal		nose cones
	* 1 .		ice pellets that usually fall from cumu-		
	xi hyperons			half life	
	kaons		s clouds during thunderstorms. The lay-	half life	
	meson resonance	ered str	ucture of hail is produced by successive	DEF	The average time required for one half
	X mesons		ns of clear and frothy ice.	the aton	ns in a sample of radioactive element to
		UF		decay.	no in a campio of radioactive cicinoni to
	muons		hailstones		H. (1 1 H.)
	omega-mesons	GS	precipitation (meteorology)	GS	life (durability)
	pions		. hail		. half life
	•	RT	cloud glaciation	RT	decay
	vector mesons	пі		111	
	rho-mesons		graupel		nuclear reactions
	sigma-mesons		hailstorms		post-blast nuclear radiation
RT	charm (particle physics)		ice formation		radiative lifetime
	flavor (particle physics)		storms (meteorology)		radioactive age determination
	particle decay		thunderstorms		radioactive decay
	partons				radioactivity
		hailston	06		reaction kinetics
	quark parton model				reaction kinetics
	vector dominance model	USE	hail		
				half pla	nes
hafnium	•	hailstor	ms	GS.	analysis (mathematics)
	•			ao	
GS	chemical elements	GS	storms		half planes
	. hafnium		. storms (meteorology)	RT	boundary value problems
	hafnium isotopes		hailstorms		coordinates
	·	RT	climatology		differential equations
	metals	пі			
	. transition metals		graupel		Green's functions
	hafnium		hail		
	hafnium isotopes		meteorology	half spa	aces
	Hairiidiii isotopes				
			precipitation (meteorology)	GS	analysis (mathematics)
nafnium	n alloys		rainstorms		. half spaces
GS	alloys		storm damage	RT	boundary value problems
40	. hafnium alloys		storm enhancement		coordinates
D-					
RT	heat resistant alloys		storm suppression		elliptic differential equations
	niobium alloys		thunderstorms		fractals
	tantalum alloys				Green's functions
		hair			
	tungsten alloys		C1		
	zirconium alloys	GS	fibers	halides	
	•		. hair	GS	halogen compounds
hafnium	n carbides	RT	keratins	40	. halides
		n i			
GS	carbon compounds		skin (anatomy)		bromides
	carbides		wool		ammonium bromides
	. hafnium carbides				cesium bromides
		L = ! '	vartina		
	hafnium compounds	hairpin			chromium bromides
	. hafnium carbides	USE	horseshoe vortices		dibromides
					hydrobromic acid
hofr:	a compoundo	Unit:			
	n compounds	Haiti			hydrobromides
GS	hafnium compounds	GS	landforms		magnesium bromides
	. hafnium carbides		. islands		potassium bromides
	. hafnium iodides		West Indies		silver bromides
	. hafnium oxides		Haiti		sodium bromides
RT ~	o chemical compounds		nations		strontium bromides
	Group 4B compounds		. Haiti		chlorides
~	o metal compounds	RT	Caribbean region		aluminum chlorides
		• • • •	Caribbean Sea		ammonium chlorides
L - / ·	. ! !		Outsbeatt Jea		
	n iodides				beryllium chlorides
GS	hafnium compounds	HAL/S	(language)		boron chlorides
			Programming language developed for		cadmilim chiorides
	hafnium iodides	DEF	Programming language developed for		cadmium chlorides
	. hafnium iodides halogen compounds	DEF the fligh	t software of the NASA Space Shuttle		calcium chlorides
	hafnium iodides	DEF	t software of the NASA Space Shuttle		

copper chlorides	lanthanum ahlaridaa	transport proportion
dichlorides	lanthanum chlorides lead chlorides	transport properties
	lithium chlorides	Hall generators
germanium chlorides	magnesium bromides	DEF Hall plates, together with leads, and
hydrochlorides	metal fluorides	where used, encapsulation and ferrous or non-
hydrogen chlorides	aluminum fluorides	ferrous backing plates.
hydrochloric acid	beryllium fluorides	RT circulators (phase shift circuits)
iron chlorides	cadmium fluorides	Faraday effect
lanthanum chlorides	calcium fluorides	∞ generators
lead chlorides	fluorspar	plasma generators
lithium chlorides	cesium fluorides	signal generators
magnesium chlorides	chromium fluorides	3 0
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	strontium fluorides	Hall resistance
titanium chlorides	thorium fluorides	impedance
tungsten chlorides	tungsten fluorides	. electrical impedance
zinc chlorides	uranium fluorides	electrical resistance
fluorides	zinc fluorides	Hall resistance
antimony fluorides	zirconium fluorides	RT electrical resistivity
barium fluorides	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	tungsten chlorides	GS engines
beryllium fluorides	tungsten fluorides	. rocket engines
cadmium fluorides	zinc chlorides	electric rocket engines
calcium fluorides	zirconium iodides	electrostatic engines
fluorspar	oxyhalides	ion engines
cesium fluorides	RT halogens	Hall thrusters
chromium fluorides	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	RT molten salts	Hallam Nuclear Power Facility
nickel fluorides	∞ salts	UF HNPF (Hallam Nuclear Power
plutonium fluorides protactinium fluorides	Sano	Facility)
sodium fluorides	Hall accelerators	GS electric power plants
strontium fluorides	RT ∞ accelerators	. nuclear power plants
thorium fluorides	alpha plasma devices	Hallam Nuclear Power Facility
tungsten fluorides	Hall thrusters	nuclear electric power generation
uranium fluorides	magnetohydrodynamics	. nuclear power plants Hallam Nuclear Power Facility
zinc fluorides	plasma physics	RT ∞ power plants
zirconium fluorides	pidoma priyotos	sodium graphite reactors
nitrogen fluorides	11 11 (6. )	Socialli 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	in 1985-1986.
perchloryl fluorides	USE electric current	GS celestial bodies
polyvinyl fluoride	Hall effect	. comets
sulfur fluorides		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	0 1 7
cesium halides	having a component vertical to the sheet. The	hallucinations
cesium bromides	Hall effect is important in determining the behav-	GS psychological effects
cesium fluorides	ior of the electrical currents generated by winds	. illusions
cesium iodides	in the lower atmosphere. Used for Hall coeffi-	hallucinations
potassium iodides	cient and Hall currents.	RT signs and symptoms
sodium bromides	UF Hall coefficient	
sodium chlorides	Hall currents	Halo Orbit space station
sodium fluorides	GS galvanomagnetic effects	GS artificial satellites
sodium iodides	. Hall effect	. space stations
aluminum chlorides	quantum Hall effect	. Halo Orbit space station
barium fluorides	RT carrier mobility	stations
beryllium chlorides	∞ effects	. space stations
cadmium chlorides	Hall resistance	Halo Orbit space station
calcium chlorides	magnetohydrodynamics	RT lunar spacecraft
chromium bromides	mobility	
copper chlorides	Pedersen currents	halocarbons
hafnium iodides	polarization (charge separation)	DEF Compounds consisting of halogen at-
iron chlorides	semiconductor devices	oms and carbon atoms.

GS	carbon compounds	notopoium norobloratop	ammanium ablaridas
us	•	potassium perchlorates	ammonium chlorides
	. halocarbons	trichloroethylene	beryllium chlorides
	chlorocarbons	. fluorine compounds	boron chlorides
	chlorofluorocarbons	fluorides	cadmium chlorides
	fluorocarbons	antimony fluorides	calcium chlorides
	halon	barium fluorides	carbon tetrachloride
	halogen compounds	boron fluorides	copper chlorides
	. halocarbons	chlorine fluorides	dichlorides
	chlorocarbons	compound A	germanium chlorides
	chlorofluorocarbons	cryolite	hydrochlorides
	fluorocarbons	· ·	-
	halon	deuterium fluorides	hydrogen chlorides
RT	bromine compounds	difluorides	hydrochloric acid
00	chemical compounds	calcium fluorides	iron chlorides
	chlorine compounds	fluorspar	lanthanum chlorides
	fluorine compounds	hydrofluoric acid	lead chlorides
	fluoro compounds	metal fluorides	lithium chlorides
	iodine compounds	aluminum fluorides	magnesium chlorides
	lodine compounds	beryllium fluorides	nitrosyl chlorides
		cadmium fluorides	nitroxychlorides
HALOE		calcium fluorides	nitryl chlorides
USE	Halogen Occultation Experiment	fluorspar	phosgene
		cesium fluorides	potassium chlorides
haloner	n compounds	chromium fluorides	silicon tetrachloride
UF	Group 7A compounds	cobalt fluorides	silver chlorides
GS	halogen compounds	copper fluorides	sodium chlorides
	. bromine compounds	lanthanum fluorides	sulfur chlorides
	bromates	lithium fluorides	tetrachlorides
	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	zirconium fluorides	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
	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
			oxygen fluorides
	sodium chlorides sulfur chlorides	KEL-F	oxygen nuondes
		polyvinyl 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
	aluminum perchlorates	hydrobromides	potassium iodides
	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

. . . beryllium chlorides

cadmium chlorides	RT defluorination	von Zeipel method
calcium chlorides	halogens	
chromium bromides copper chlorides		Hamilton-Jacobi equation
hafnium iodides	halogens	RT ∞ equations
iron chlorides	GS chemical elements . halogens	equations of motion
lanthanum chlorides	astatine	Hamiltonian functions
lead chlorides	bromine	relativistic particles
lithium chlorides	bromine isotopes	
magnesium bromides	chlorine	hammerhead configuration
metal fluorides	fluorine	RT forebodies
aluminum fluorides beryllium fluorides	fluorine isotopes	missile configurations
cadmium fluorides	liquid fluorine iodine	
calcium fluorides	iodine isotopes	hammers
fluorspar	iodine 125	GS tools
cesium fluorides	iodine 131	. hammers
chromium fluorides	iodine 132	electromagnetic hammers RT impactors
cobalt fluorides copper fluorides	RT excimer lasers	presses
lanthanum fluorides	halides halogenation	rams (presses)
lithium fluorides	nalogenation	ν,
magnesium fluorides	halon	hamsters
nickel fluorides	(added January 2000)	GS animals
plutonium fluorides	DEF A bromofluorocarbon compound the	
protactinium fluorides	was widely used as an agent for fire suppressi	
sodium fluorides strontium fluorides	and explosion protection. After being recognize	
thorium fluorides	as an ozone-depleting substance, the U.S. p	
tungsten fluorides	duction and import of halons was banned	ın
uranium fluorides	1994. GS carbon compounds	hand (anatomy)
zinc fluorides	. halocarbons	GS anatomy
zirconium fluorides	halon	. limbs (anatomy)
niobium iodides	halogen compounds	hand (anatomy)
potassium bromides	. bromine compounds	fingers
potassium chlorides	. halon	appendages
silver halides silver bromides	. halocarbons	. hand (anatomy)
silver blorides	halon	fingers RT wrist
silver iodides	RT fire extinguishers	RT wrist
strontium bromides	flame retardants	
technetium fluorides	fluorocarbons	handbooks
titanium chlorides	halambilaa	GS documents
tungsten halides	halophiles RT agriculture	. handbooks
tungsten chlorides	plants (botany)	user manuals (computer programs
tungsten fluorides	plants (botarry)	RT bibliographies directories
zinc chlorides	halos	indexes (documentation)
zirconium iodides	GS scattering	manuals
oxyhalides . halocarbons	. wave scattering	subjects
chlorocarbons	electromagnetic scattering	textbooks
chlorofluorocarbons	light scattering	training analysis
fluorocarbons	halos	
halon	transmission	handedness
. iodine compounds	. electromagnetic wave transmission	n RT chirality
iodates	light transmission	lateral stability
lithium iodates	light scattering <b>halos</b>	······································
iodides	. wave propagation	h di
cesium iodides	light scattering	handicaps USE <b>disabilities</b>
gallamine triethiodide hafnium iodides	halos	USE disabilities
niobium iodides	RT astronomy	
potassium iodides	atmospheric scattering	handles
silver iodides	coronas	RT knobs
sodium iodides	galactic halos	levers
zirconium iodides	haze	manual control
iodoacetic acid	images	
. nitrosyls	rainbows	Handley Page aircraft
nitrosyl chlorides	Halphen method	GS Handley Page aircraft
RT ∞ chemical compounds	RT ∞ methodology	. HP-115 aircraft
Halanan Ozanbatian Funccionant	TT Somethodology	. Victor MK-1 aircraft
Halogen Occultation Experiment  DEF Shuttle experiment to provide global	Hamburger aircraft	RT ∞ aircraft
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 chlorination	∞ dynamics	propellant storage
fluorination	Hamilton-Jacobi equation quantum theory	∞ storage tractors
IIdomiation	quantum meory	แสบเบเอ

transportation	GS waterways	tibility or vulnerability of weapon systems and
handling qualities	. <b>harbors</b> 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 freighters	∞ systems
GS handwriting	handling equipment	hardness
. graphology	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
Hanford reactors	regional planning	resistance to scratching, abrasion, or cutting.
GS nuclear reactors	ship terminals ships	GS mechanical properties . hardness
. Hanford reactors	tanker ships	microhardness
RT reactor design	terminal facilities	Knoop hardness
reactor physics reactor technology	traffic	Rockwell hardness
reactor technology	∞ travel	Vickers hardness RT abrasion resistance
hang gliders	water vehicles wharves	brittle materials
DEF Ultralight, unpowered aircraft in which	Wildives	brittleness
the pilot controls the flight attitude and glide path	hard coal	Charpy impact test
by shifting his position on a suspended seat	USE anthracite	cold hardening
(swing seat). GS gliders	hard landing	ductility
. hang gliders	DEF An impact landing of a spacecraft on	fatigue (materials) 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 parawings	GS landing	plastic properties
sailwings	. <b>hard landing</b> RT aircraft landing	softness
soaring	crash landing	surface properties temper (metallurgy)
ultralight aircraft	emergency landing	toughness
∞ winged vehicles	lunar landing	wear
hangars	planetary landing	wear resistance
(added December 1990)	soft landing spacecraft landing	harden to to
UF aircraft hangars	water landing	hardness tests RT compression tests
RT airfield surface movements	-	high temperature tests
airports	hardeners	impact tests
buildings ground handling	RT alloys hardening (materials)	Knoop hardness
ground stations	heat treatment	low temperature tests
heliports	nout troution	∞ materials tests
military air facilities	∞ hardening	nanoindentation nondestructive tests
	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	static tests
Hankel functions GS analysis (mathematics)	LISTED BELOW)	∞ tests
. complex variables	RT hardening (materials)	Vickers hardness
Bessel functions	hardening (systems)	wear tests
Hankel functions	hardening (materials)	∞ hardware
. real variables	UF metal hardening	SN (USE OF A MORE SPECIFIC TERM IS
Bessel functions <b>Hankel functions</b>	GS hardening (materials)	RECOMMENDEDCONSULT THE TERMS
functions (mathematics)	. carburizing . cold hardening	DEF Physical equipment as contrasted to
. Hankel functions	. hot pressing	ideas or design that may exist only on paper.
RT boundary value problems	hot isostatic pressing	RT computers
differential equations	. nitriding	electronic modules
orthogonal functions	. precipitation hardening	∞ equipment evolvable hardware
Hansen lunar theory	maraging . pulse heating	firmware
RT Earth orbits	. shot peening	fixtures
orbital mechanics	. siliconizing	reconfigurable hardware
perturbation theory	. work hardening	tools
∞ theories	strain hardening	hardware description languages
haploscopes	RT aging (materials) 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.  UF HDL (computers)
. optical measuring instruments haploscopes	∞ hardening heat treatment	VHDL (computers)
RT astigmatism	martensite	GS languages
binocular vision	metal working	hardware description languages
eye examinations	∞ metallurgy	RT computer design
∞ instruments	microstructure	computer systems simulation formalism
optometry	normalizing (heat treatment)	integrated circuits
harbors	oxide dispersion strengthening 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	
protected either naturally or artifically against	softening	hardware utilization lists
high waves and strong currents. Harbors are furnished deep enough to provide safe anchor-	tempering	UF HUL 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

Airy function Fourier analysis RT

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

. numerical analysis
. approximation
. . . Hartree approximation
RT atom: 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

iron allovs

Hastelloy (trademark)

GS alloys

. nickel alloys . Hastelloy (trademark)

molybdenum alloys

hatches RT air locks doors

egress

gates (openings) ingress (spacecraft passageway)

hauling

RT cargo

delivery . . hazardous material disposal (in kilometers. The obscuration, or lack of transparmaterials handling ency, of the atmosphere near the Earth's surpackaging management face, is often caused by haze or by heat refractransportation . waste management tion (shimmering). transportation energy . . waste disposal RT air pollution ... hazardous material disposal (in atmospheric optics clarity space) Hawaii RT aerospace environments fog GS landforms public health halos . islands radioactive wastes light transmission . . Hawaii toxicity and safety hazard low visibility nations mist . United States hazardous materials opacity . . Hawaii (added March 1997) optical properties GS hazardous materials transparence Hawk missile hazardous wastes turbidity GS missiles biological hazards visibility . surface to air missiles carcinogens contaminants . Hawk missile haze detection solid propellant rocket engines explosives GS detection hazards haze detection Hawker Hunter aircraft ∞ materials foa USE F-2 aircraft poisons forest fire detection radiation hazards fumes Hawker P-1127 aircraft gas detectors toxic hazards USE P-1127 aircraft toxins and antitoxins mist waste disposal remote sensors Hawker P-1154 aircraft smoke USE P-1154 aircraft hazardous wastes vapors (added March 1997) Hawker Siddeley aircraft GS hazardous materials **HBNQ** GS Hawker Siddeley aircraft hazardous wastes USE nitroguanidine . Argosy MK-1 aircraft wastes AVRO 707 aircraft hazardous wastes HBWR reactor . Buccaneer aircraft biological hazards USE Halden Boiling Water Reactor . Comet 4 aircraft contaminants DH 112 aircraft environmental cleanup HC-1 helicopter . DH 115 aircraft USE CH-47 helicopter hazards . DH 121 aircraft radiation hazards . DH 125 aircraft HC-3 helicopter toxic hazards . F-2 aircraft waste disposal UF Omnipol HC-3 helicopter . GA-5 aircraft general aviation aircraft . Harrier aircraft . HC-3 helicopter hazards . HS-748 aircraft transport aircraft UF danger . HS-801 aircraft noise hazards HC-3 helicopter . P-1127 aircraft GS hazards V/STOL aircraft . P-1154 aircraft . rotary wing aircraft . aircraft hazards Shackleton bomber . . runway incursions . flight hazards . . helicopters Vampire MK 35 aircraft ... military helicopters ... HC-3 helicopter . Vulcan aircraft . meteoroid hazards biological hazards
operational hazards RT ∞ aircraft RT passenger aircraft Hawkeye 1 satellite radiation hazards **HCL** argon lasers USE Explorer 52 satellite . toxic hazards accident prevention DEF Gas lasers in which the active material is gaseous hydrogen chloride and argon. Hawkeye aircraft GS stimulated emission devices accidents USE E-2 aircraft . lasers aircraft spin . . chemical lasers avoidance Hawkeye satellites . . . HCL lasers crash injuries .... HCL argon lasers GS artificial satellites ∞ detectors . scientific satellites explosions . . gas lasers . . Hawkeye satellites . . . HCL lasers flammable gases . . . . HCL argon lasers hay hazardous materials GS farm crops **HCL** lasers hazardous wastes . hay incompatibility DEF Gas lasers in which the active material plants (botany) injuries is gaseous hydrogen chloride. Used for hydro-. grasses low visibility gen chloride lasers. . hay noise tolerance hydrogen chloride lasers RT agriculture occupational diseases GS stimulated emission devices botany . lasers protection Earth resources . . chemical lasers risk farmlands risk assessment ... HCL lasers . . . . HCL argon lasers sabotage grasslands . . gas lasers safety leguminous plants safety devices ... HCL lasers safety factors . . . . HCL argon lasers Haynes Stellite safety management USE Stellite (trademark) spacecraft breakup **HCMM** USE Heat Capacity Mapping Mission spontaneous combustion HAZ (metallurgy) toxicology USE heat affected zone warning systems **HCN lasers** hydrogen cyanide lasers hazardous material disposal (in space) haze stimulated emission devices DEF The disposal in space of hazardous Fine particles of dust, salt, or water . lasers dispersed through a part of the atmosphere, diminishing transparency of the air, causing colors to assume a characteristic subdued opalesmaterial. When radioactive materials are in-. . gas lasers . HCN lasers

cent appearance, and reducing the horizontal

visibility to more than one, but less than two

volved, the expected lifetime of orbit exceeds

the lifetime of the radioactivity.

. waste disposal

disposal

GS

chemical lasers coherent light

hydrocvanic acid

# head (anatomy)

	light amplifiers		bioastronautics		radiation measuring instruments
	light sources		cardiovascular system		radiation protection
	optical pumping		gravitational physiology		radiation sickness
	stimulated emission		gravity perception		radiobiology
			head down tilt		safety factors
	round effect machines		hemodynamic responses		∞ science
USE	hovercraft ground effect machines		hindlimb suspension		
			lower body negative pressure		Physics Research Reactor
,	omputers)		orthostatic tolerance		HPRR
USE	hardware description languages		physiological responses	GS	nuclear reactors
LIDEL			supine position		nuclear research and test reactors
HDTV	biob definition television		tilt-table test		. Health Physics Research
USE	high definition television		weightlessness simulation	DT	Reactor
bood (c	anatamu)		h .	RI	∞ physics
GS	anatomy)	headac		Llaalth	Education Talesammunications ava
do	anatomy . head (anatomy)	UF	cephalagia		Education Telecommunications exp HET experiment
	skull	GS	diseases	USE	HET experiment
	cranium		. headache	HEAO	
	intracranial cavity		signs and symptoms	UF	High Energy Astronomy
	mastoids		headache	01	Observatories
RT	brain	∞ headers		GS	artificial satellites
	chin	SN	(USE OF A MORE SPECIFIC TERM IS	ao	. scientific satellites
	eye (anatomy)	0.1	RECOMMENDEDCONSULT THE TERMS		astronomical satellites
	face (anatomy)	DT	LISTED BELOW)		HEAO
	forehead	RT	beams (supports)		HEAO 1
	lips (anatomy)		chassis		HEAO 2
	nose (anatomy)		hermetic seals		HEAO 3
	sense organs		pipes (tubes)		HEAO 4
			supports		observatories
head (f	luid mechanics)	~	terminals		. astronomical observatories
GS	fluid flow	headset			astronomical satellites
	. head (fluid mechanics)		earphones		HEAO
	head flow	USE	earpriories		HEAO 1
	pressure heads	head-ur	displays		HEAO 2
RT	elevation		display devices		HEAO 3
	geopotential height	ao	. head-up displays		HEAO 4
	hydrostatic pressure	RT	avionics	RT	
	hydrostatics		consoles		
	liquid flow		flight instruments	HEAO	1
	pressure		image tubes	DEF	The first of three NASA High Energy
	scale height		indicating instruments		omy Observatories launched during 197
	3		landing aids		study of cosmic rays and Earth's mag
head (p	pressure)		navigation aids		eld to study the x ray and gamma ray sky
USE	pressure heads		position indicators		or HEAO A, High Energy Astronom
			spacecraft position indicators		atory A, and High Energy Astronom
head d	own tilt		warning systems		atory 1.
GS	posture		warming dyctomo		HÉAO A
	. head down tilt	healing			High Energy Astronomy Observatory
RT	aerospace medicine	GS	healing		1
	bed rest		. wound healing		High Energy Astronomy Observatory
	bioastronautics	RT	clinical medicine		Ä
	body sway test		cures	GS	artificial satellites
	head up tilt		therapy		. scientific satellites
	hemodynamic responses				astronomical satellites
	hindlimb suspension	health			HEAO
	hypokinesia	GS	health		HEAO 1
	orthostatic tolerance		. health physics		observatories
	physiological effects		public health		. astronomical observatories
	tilt-table test		. mental health		astronomical satellites
	vestibular tests	RT	chronic conditions		HEAO
	weightlessness simulation		clinical medicine		HEAO 1
			hygiene		unmanned spacecraft
head fl			oral hygiene		HEAO 1
GS	fluid flow		psychotherapy	RT	OAO
	. head (fluid mechanics)		sanitation		
	head flow			HEAO	
RT	base flow		nd usage monitoring systems		The second of three NASA High En
	Blasius flow		ed April 2001)		stronomy Observatories. It was launche
	inlet flow	USE	systems health monitoring		1978 for the study of specific x ra
	liquid flow				, quasars, x ray pulsars, and candidate
•	∞ pressure drop	health p			noles. Used for Einstein Observatory
		GS	biophysics		B, High Energy Astronomy Observator
	novement		. health physics		High Energy Astronomy Observatory 2
RI	acceleration stresses (physiology)		public health	UF	Einstein Observatory
	aerospace medicine		health		HEAO B
	eye movements		. health physics		High Energy Astronomy Observatory
•	∞ motion	57	public health		Lligh Engrav Astronomy Of
	motion sickness	RT	fluence		High Energy Astronomy Observatory
	vestibular tests		industrial safety	00	D outificial actallity -
bee-1	n tilt		nuclear medicine	GS	artificial satellites
head u	•		nuclear physics		. scientific satellites
	led March 1998)  Rody posturo while lying on a tilt table		nuclear radiation		astronomical satellites
	Body posture while lying on a tilt table		occupational diseases		HEAO
	head higher than the rest of the body.	~	physics		HEAO 2
	HUT (physiology)		radiation detectors		observatories
GS	posture		radiation dosage		. astronomical observatories
DΤ	. head up tilt		radiation effects		astronomical satellites
RT	aerospace medicine		radiation hazards		HEAO
	bed rest		radiation injuries		HEAO 2

	unmanned anaeceroft	DT	a a vita		hoort roto
	unmanned spacecraft	RT	aorta		. heart rate
	. HEAO 2		artificial cardiac pacemaker		arrhythmia
RT	OAO		artificial heart valves		bradycardia
			blood		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		0 . ,		biomedical data
			cardiology		
	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		diastole		diastole
Observa	tory C, and High Energy Astronomy		muscles		epinephrine
Observa			phonocardiography		heart function
	HEAO C		prioritioal alogicapiny		Hering-Brever reflex
٠.	High Energy Astronomy Observatory	heart o	onduction system		
					sphygmography
	3		led August 2004)		stroke volume
	High Energy Astronomy Observatory		An impulse-conducting system com-		systole
	C	posed	of modified cardiac muscle and having		
GS	artificial satellites	the pov	ver of spontaneous rhythmicity and con-	heart va	alvoe
	. scientific satellites	duction	more highly developed than the rest of		
	astronomical satellites	the hea		GS	valves
	HEAO	GS			. heart valves
		do	anatomy		artificial heart valves
	HEAO 3		. circulatory system	RT	coronary circulation
	observatories		cardiovascular system		,
	. 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 thermal pro-
		heart o	liseases	cess.	, ,
HEAO 4		GS	diseases	GS	heat
	ed May 1997)	ao	. heart diseases	ao	
٠,					. 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
	D	RT	bradycardia		heat of solution
GS	artificial satellites				
us			cardiography		latent heat
	. scientific satellites		cardiology		heat of fusion
	astronomical satellites		cardiovascular system		heat of vaporization
	HEAO		echocardiography		heat of combustion
	HEAO 4		electrocardiography		. nuclear heat
	observatories		fat embolisms		
					. process heat
	. astronomical observatories		fibrillation		. specific heat
	astronomical satellites		His bundle	RT	activation energy
	HEAO		phonocardiography	~	energy
	HEAO 4		,		entropy
RT	gamma ray astronomy	heart f	unction		
	• .	GS	heart function		heating
	x ray astronomy	do			heating equipment
			. diastole		infrared radiation
HEAO A			. fibrillation		temperature
USE	HEAO 1		. systole		thermal energy
		RT	angina pectoris		thermal insulation
HEAO E	}		blood circulation		thermal radiation
	HEAO 2		blood pressure		thermochemistry
002	IIIAO I				
HEAO C			cardiac output		thermodynamic properties
			cardiography		thermodynamics
USE	HEAO 3		carotid sinus reflex		work
			cyanosis		
HEAO E	)		echocardiography		.1
(adde	ed May 1997)		heart conduction system		climatization
	HEAO 4		heart minute volume	GS	adaptation
			heart rate		. acclimatization
hooring					heat acclimatization
hearing	handan		hemodynamics	RT	body temperature
GS	hearing		His bundle	• • • • • • • • • • • • • • • • • • • •	cold acclimatization
	. binaural hearing		physiology		
RT	audiology		stroke volume		high temperature environments
	audiometry		on one volume		human tolerances
	auditory fatigue	boort is	mplantation		perspiration
	auditory tasks				physiological effects
	•	GS	implantation		
	ear		. heart implantation		
	loudness	RT	artificial heart valves	heat aff	ected zone
	stereophonics		biotechnology	DEF	That portion of the base metal, the
	thresholds (perception)		blood circulation	structure	e or properties of which have been al
	(1-1-1-1)		pulmonary circulation		y the heat of welding or gas-cutting
hearing	loss		•		n. Used for HAZ (metallurgy).
			surgery		
USE	auditory defects		transplantation		HAZ (metallurgy)
				RT	
heart		heart n	ninute volume		gas tungsten arc welding
GS	anatomy	GS	output		heat treatment
	. circulatory system	45	. cardiac output		metal bonding
	cardiovascular system		heart minute volume	-	metallurgy
		D.T.		~	
	heart	RT			metal-metal bonding
	cardiac auricles		spirometers		soldering
	cardiac ventricles				temperature dependence
	epicardium	heart r	ate		temperature effects
	heart conduction system	UF	pulse (cardiovascular)		thermomechanical treatment
	myocardium	GS	rates (per time)		weldability
		G.S	INCO IDOI IIIIO/		WORMSHILL

welding thermodynamic equilibrium regenerators 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 chemical properties SNAP 8 . thermochemical properties planet and its atmosphere from the sun and that SNAP 10A emitted by the planet and the atmosphere. The . heat of formation space cooling (buildings) equilibrium which is known to exist when all space power reactors heat sources of heat gain and loss for a given region space power unit reactors . enthalpy of body are accounted for. In general, this waste heat . heat of formation 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 (LIMITED TO HEAT ENERGY TRANSMISSION RATE) The thermal intensity indicated by the heat of fusion SN DEF The increase in enthalpy accompanymaterial balance 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 flux density The accounting for the total amount of chemical properties solar flux heat received and lost by a particular system. . thermochemical properties energy budgets . . latent heat heat gain . heat budget .. heat of fusion USE heating . atmospheric heat budget 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 . thermochemical properties heating . . latent heat heating equipment Applications Explorer Satellites RT . . 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 heat content heat measurement thermal energy 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 of solution heat engines combustion heat (added September 1992) thermodynamic properties GS 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 . . latent heat reaction kinetics heating

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 ∞ radiators 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 63 . . . . 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

heat sources GS

. 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

GS energy storage

. heat storage

geothermal energy utilization

heat tapes

phase change materials solar dynamic power systems

solar houses

temperature Trombe walls

heat stroke

body temperature

heat tolerance hot weather hyperthermia

physiological effects thermal comfort

thermal environments

heat tapes

heat storage 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

SN (HEAT FLUX PER UNIT AREA PER UNIT 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
ОТ	. heat transfer coefficients	~	treatment	baatina	
RT	accommodation coefficient evaporation rate				equipment Gerdien arc heaters
	heating	∞ heaters		OI	preheaters
	mass flow factors	∞ Heaters SN	(USE OF A MORE SPECIFIC TERM IS	GS	heating equipment
	nucleate boiling	0.4	RECOMMENDED CONSULT THE TERMS		. boilers
	-	RT	LISTED BELOW) deicers		. furnaces
heat tra	nsmission	111	deicing		electric furnaces
DEF	Heat transmitted from one substance		electron tubes		image furnaces
	er. Used for heat flow.		heating equipment		solar furnaces vacuum furnaces
UF	heat flow		vaporizers		. ovens
GS	transmission . heat transmission		water heating		. vaporizers
	heat transfer				evaporators
	aerodynamic heat transfer	heating		RT	air conditioning
	hypersonic heat transfer	UF	heat gain		air conditioning equipment
	supersonic heat transfer		preheating		crucibles deicers
	conductive heat transfer		reheating		deicing
	convective heat transfer laminar heat transfer		warming	~	electric equipment
	radiative heat transfer	GS	heating	~	equipment
	turbulent heat transfer		. arc heating . atmospheric heating		fuel tanks
RT	adiabatic equations		global warming		heat
	annular flow		stratospheric warming		heat exchangers heat generation
	convection		. baking		heat pumps
	convective flow		. base heating		heat radiators
	ducted flow equilibrium flow		. gas heating	~	heaters
~	flow		. induction heating		heating
	fluid flow		. ionospheric heating . kinetic heating		onboard equipment
	geophysics		aerodynamic heating		space heating (buildings)
	geothermal energy conversion		shock heating		temperature control thermal insulation
	geothermal energy extraction		. laser heating		water heating
	geothermal resources mass flow factors		. magnetohydrodynamic shear		Tate: Heating
	nonequilibrium flow		heating	heaving	I
	potential flow		. pasteurizing	RT	bending
	radial flow		. plasma heating electron cyclotron heating	~	bows
	radiative transfer		radiant heating		buckling
	steady flow		. radio frequency heating		displacement distortion
	thermal analysis		. resistance heating		flexing
	thermal insulation thermohydraulics		. solar heating		kinking
	uniform flow		. space heating (buildings)	~	o motion
	unsteady flow		. superheating . transient heating		pitch (inclination)
	wall flow		. pulse heating		warpage
			shock heating	heavy c	osmic ray primaries
heat tre	atment		. water heating		heavy nuclei
DEF	Heating and cooling a solid metal or	RT	air conditioning		primary cosmic rays
	such a way as to obtain desired condi-		annealing		
	properties.		autoclaving		elements
GS	heat treatment . annealing		boiling cementation	GS	chemical elements
	laser annealing	00	conduction	DT	. heavy elements • elements
	pulse heating		convection	nı ∝	heavy ions
	. maraging		cooling		neavy ione
	. nitriding		decarburization	heavy f	ermion superconductors
	. normalizing (heat treatment)		defrosting		ed April 1999)
	. stress relieving		environmental engineering	GS	conductors
RT	. tempering aging (metallurgy)		geothermal energy extraction geothermal energy utilization		. superconductors (materials) . heavy fermion superconductors
п	alloys		heat		intermetallics
	baking		heat exchangers		. heavy fermion systems
	critical temperature		heat generation		. heavy fermion superconductors
	ferritic stainless steels		heat transfer		
	forging		heat transfer coefficients		ermion systems
	furnaces		heat treatment		ed April 1999)
	graphitization hardeners		heating equipment Hilsch tubes	GS	intermetallics . heavy fermion systems
	hardening (materials)		hydrothermal systems		heavy fermion superconductors
	heat affected zone		ice prevention	RT	fermions
	heating		integrated energy systems		superconductors (materials)
	martensite		jackets		
000	metallurgy		laser annealing		on collisions
	microstructure nucleation		laser welding	USE	ionic collisions
	phase diagrams		melting Modular Integrated Utility System	heavy i	ons
	precipitation hardening	00	radiation	GS	ions
	quenching (cooling)	~	roasting	40	. heavy ions
	recrystallization		sintering	RT	heavy elements
	salt baths	~	soaking		ion stripping
000	soaking		temperature		isotope separation
	stabilization		temperature control		isotopes
	supercooling		temperature distribution		light ions
	supersaturation temper (metallurgy)		thermal cycling tests thermal shock	heavy li	ift airships
	temper (metallurgy) temperature distribution		thermal stresses	DEF	Airships designed to lift heavy materi-
	thermochemistry		vaporizing	als.	,

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 RT air cargo . . . . heavy water components test ∞ 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 automatic control . . Ares 5 cargo launch vehicle . . Delta 4 Heavy launch vehicle Vertical distance; the distance above ∞ control . . Energiya launch vehicle some reference point or plane, as, height above controllability sea level. The vertical dimension of anything; . Proton launch vehicle directional control the distance which something extends above its Advanced Launch System (STS) flight control 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 helicopter design GS aircraft design Metals or alloys having a high specific ∞ level gravity; usually ones with a density greater than slopes 5 grams per cubic centimeter. . helicopter design compound helicopters metals Heinkel aircraft GS . heavy metals cadmium RT ∞ aircraft computer aided design design Heisenberg theory engine design chromium atomic theory contaminants heavy lift helicopters 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. heavy cosmic ray primaries helicopter engines celestial bodies 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 DEF Water in which the hydrogen of the . helical antennas 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 aerodynamic stability hydrogen compounds 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 helical inducers moderators helicopters tritium field coils maneuverability ∞ helices pilot ratings heavy water components test reactors plasma control GS nuclear reactors helicopter propeller drive . liquid cooled reactors helical windings GS mechanical drives . water cooled reactors winding . propeller drive GS helicopter propeller drive . . . heavy water reactors helical windings

RT ∞ helices

plasma control

magnetic field configurations

.... heavy water components test

reactors
. nuclear research and test reactors

helicopters

jet propulsion

rotary wings

		011.01.11	
	tilted propellers	CH-3 helicopter	Helios 1
	variable pitch propellers	F-28 helicopter	
		XH-51 helicopter	Helios 2
helicopt	er rotors	S-58 helicopter	GS artificial satellites
	rotary wings		. Helios satellites
OOL	rotary wings	S-61 helicopter	
h = 1! = = =	4au 4ail ua4aua	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	TH-55 helicopter	
RT	helicopters	RT airborne radar approach	Helios A
	rotary wings	∞ aircraft	GS artificial satellites
00	orotor blades		. Helios satellites
		aircraft survivability	
holioon	tor wakes	blade slap noise	Helios A
	ter wakes	blade-vortex interaction	unmanned spacecraft
GS	wakes	general aviation aircraft	. space probes
	. aircraft wakes	ground resonance	solar probes
	helicopter wakes	•	Helios A
RT	downwash	helicopter control	Helios A
111		helicopter design	
	helicopters	helicopter engines	Helios B
		helicopter performance	GS artificial satellites
helicop	ters		. Helios satellites
DEF	Rotorcraft that, for its horizontal mo-	helicopter propeller drive	
		helicopter tail rotors	. Helios B
	pends principally on its engine-driven	helicopter wakes	unmanned spacecraft
rotors.		heliports	. space probes
UF	drone helicopters	∞ military aircraft	solar probes
	gyroplanes	•	Helios B
CC		nap-of-the-earth navigation	Helios B
GS	V/STOL aircraft	recovery vehicles	
	. rotary wing aircraft	rotor systems research aircraft	Helios Project
	helicopters	short takeoff aircraft	GS programs
	Alouette helicopters		. NASA programs
		∞ subsonic aircraft	
	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		RT charged particles
	light helicopters	XV-15 aircraft	
			high temperature plasmas
	OH-4 helicopter	Heliliner (helicopter)	solar probes
	OH-5 helicopter	(added April 1997)	zodiacal light
	OH-6 helicopter		· ·
	OH-58 helicopter	USE EH-101 helicopter	Helios satellites
	military helicopters	Helio aircraft	GS artificial satellites
	AH-1G helicopter	UF Helio military aircraft	. Helios satellites
	AH-1S helicopter		Helios 1
	AH-1W helicopter	GS Helio aircraft	Helios 2
		. U-10 aircraft	
	AH-63 helicopter	RT ∞ aircraft	Helios A
	AH-64 helicopter	TTT anotait	Helios B
	BO-105 helicopter		RT magnetic fields
	CH-3 helicopter	Helio military aircraft	particle flux density
		USE Helio aircraft	
	CH-21 helicopter		solar flux density
	CH-34 helicopter	heliocentric orbits	
	CH-46 helicopter		helioseismology
	CH-47 helicopter	USE solar orbits	UF solar dynamics
	CH-54 helicopter		solar seismology
		heliographs	· · · · · · · · · · · · · · · · · · ·
	CH-62 helicopter		GS seismology
	H-19 helicopter	USE spectroheliographs	. asteroseismology
	H-43 helicopter		. helioseismology
	H-53 helicopter	heliography	RT astrophysics
	•	USE spectroheliographs	1 7
	H-54 helicopter	oo_ openionograpiio	∞ science
	H-56 helicopter		solar interior
	H-60 Helicopter	heliomagnetism	solar physics
	HC-3 helicopter	USE solar magnetic field	• •
	HH-43 helicopter	· ·	haliaanhara
		hallamatana	heliosphere
	HH-65 helicopter	heliometers	DEF The region around the sun whose
	OH-4 helicopter	UF heliometry	plasma processes are dominated by solar wind.
	OH-5 helicopter	GS measuring instruments	RT cosmic rays
		. heliometers	interplanetary space
	OH-6 helicopter		
	OH-13 helicopter	pyroheliometers	interstellar gas
	OH-23 helicopter	optical equipment	SOHO Mission
	OH-58 helicopter	. heliometers	solar activity effects
		pyroheliometers	
	P-531 helicopter		solar wind
	QH-50 helicopter	telescopes	
	S-67 helicopter	. heliometers	heliostats
	SA-321 helicopter	pyroheliometers	DEF Instruments consisting of mirrors
		<sub>F</sub> )	3
	SA-330 helicopter	h!:	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
		P3. 5	
	UH-1 helicopter		reflectors
	UH-2 helicopter	Helios 1	servomotors
	UH-34 helicopter	GS artificial satellites	solar reflectors
	UH-60A helicopter	. Helios satellites	synchronizers
			Synonionizers
	UH-61A helicopter	Helios 1	L.P.L.
	Westland Whirlwind helicopter	unmanned spacecraft	heliotrons
	XV-9A aircraft	space probes	(added September 1988)
	rigid rotor helicopters	solar probes	GS nuclear reactors
	gia rotor noncoptoro	oolal propos	GO Hadioai Todolofo

pressure suits

. heliotrons 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 RT air traffic control helium 4 Helmholtz resonators airport planning chemical elements An enclosure having a small opening airport towers . nuclides consisting of a straight tube of such dimensions hangars that the enclosure resonates at a single fre-. . isotopes helicopters ... helium isotopes quency determined by the geometry of the resolanding 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 Helmholtz vorticity equation ... helium isotopes helitrons analysis (mathematics) electron tubes . real variables 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 chemical elements oxygen plasma ∞ Helmholtz equations . rare gases vorticity . . helium helium stars USE B stars ... helium isotopes 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 portable life support systems hematocrit liquid helium underwater breathing apparatus 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) GS ratios 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 clothing . protective clothing reticulocytes RT ∞ films helium . helmets hematopoiesis safety devices cytogenesis helium hydrogen atmospheres

. 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 . . . carboxyhemoglobin . ESA satellites cardiovascular system . . oxyhemoglobin . . HEOS satellites cells (biology) organometallic compounds . HEOS B satellite physiological effects . hemoglobin ESA spacecraft radiation effects . . carboxyhemoglobin . ESA satellites . . oxyhemoglobin . . HEOS satellites anemias hematopoietic system RT ... HEOS B satellite RT angiogenesis blood blood cells blood cell count **HEOS** satellites blood volume blood cells Highly Eccentric Orbit satellites bone marrow cells (biology) artificial satellites cardiovascular system erythrocytes . ESA satellites physiological effects hematocrit . HEOS satellites ∞ systems hemolysis ... HEOS A satellite ... HEOS B satellite polycythemia hematuria porphines ESA spacecraft ESA satellites GS signs and symptoms porphyrins hematuria reticulocytes RT urine . . HEOS satellites ... HEOS A satellite hemolysis hemisphere cylinder bodies . HEOS B satellite RT complement (biology) RT ∞ cylinders European space programs erythrocytes cylindrical bodies solar orbits hemoglobin hemispherical shells polycythemia reticulocytes pressure vessels heparins RT anticoagulants hemoperfusion (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) Type of poison treatment in which the patient's blood is passed over a bed of absoraerodynamic configurations bent material (activated carbon, resin, etc.) to DEF An inflammation of the liver, commonly bodies of revolution Eastern Hemisphere hemispherical shells Northern Hemisphere remove the toxin from the bloodstream. of viral origin, but also associated with other activated carbon diseases. adsorbents GS diseases blood flow . infectious diseases Southern Hemisphere blood pressure . hepatitis hemodynamics spheres acquired immunodeficiency syndrome toxicology anatomy hemispherical shells hemorrhages shells (structural forms) GS viral diseases hemispherical shells GS hemorrhages petechia RT bodies of revolution RT ∞ bleeding circular shells heptadiene domes (structural forms) blood GS organic compounds cardiovascular system hemisphere cylinder bodies . hydrocarbons coagulation ∞ hemispheres . . aliphatic hydrocarbons hemostatics metal shells . . . dienes reinforced shells hypotension .... heptadiene spheres injuries spherical shells pathology polycythemia heptanes hemocytes reticulocytes GS organic compounds GS cells (biology) . hydrocarbons blood cells hemostasis . . aliphatic hydrocarbons . hemocytes USE hemostatics . . . alkanes invertebrates . . heptanes hemostatics RT hydrocarbon fuels UF hemodynamic responses hemostasis GS physiological effects drugs hemostatics . physiological responses hemodynamic responses RT blood coagulation Chemical agents used for the eradicaresponses fibrinogen tion of undesirable plants or for the inhibition of . physiological responses gibberellins their growth. . hemodynamic responses hemorrhages brush (botany) baroreflexes thrombin defoliants blood circulation thromboplastin foliage blood pressure vasopressins forests head down tilt leaves HEMT (electronics) plants (botany) head up tilt tilt-table test USE high electron mobility transistors toxicity trees (plants) hemodynamics Henry law composition (property) hemodynamics partial pressure Herbig-Haro objects lower body negative pressure blood circulation Raoult law DEF Celestial objects having many of the solubility characteristics of a T Tauri star (e.g., their specblood volume cardiovascular system solutions tra show a weak continuum with strong emission ∞ dynamics vapor pressure lines), believed to be stars in the very early heart function stages of development. All known Herbig-Haro hemoperfusion **HEOS A satellite** objects have been found within the boundaries of dark clouds. These strong infrared sources physiology GS artificial satellites . ESA satellites are characterized by mass loss.

. . HEOS satellites

ESA spacecraft

. ESA satellites

**HEOS B satellite** GS artificial satellites

. . HEOS satellites

... HEOS A satellite

HEOS A satellite

GS celestial bodies

. nebulae

infrared stars

stellar radiation

stellar spectra

RT B stars

∞ bodies

. Herbig-Haro objects

infrared sources (astronomy)

hemoglobin

biopolymers . proteins

. proteins

. . hemoglobin

.. hemoglobin

. . . carboxyhemoglobin

. . . oxyhemoglobin

organic compounds

GS

T Tauri stars ... Herzberg bands . . . . xanthines RT ∞ bands . . . . . caffeine Hercules aircraft oxygen spectra . . . . . guanines USE C-130 aircraft Schumann-Runge bands . . uric acid . . . pyridines ultraviolet spectra 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 Little John rocket vehicle DEF Given a real value function of N variindoles 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) teleconferencina . . . . . . serotonin **HET** experiment . . imidazoles Hering-Brever reflex RT ATS 6 RT ∞ 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
. optical heterodyning RT heart rate heterocyclic compounds organic compounds Hermes manned spaceplane . cyclic compounds GS manned spacecraft heterocyclic compounds space shuttles ... acriflavine autodynes demodulation RT . Hermes manned spaceplane ... adenosines 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 DFF Having different properties at different space transportation system . . . . betaines points spacecraft design . . . . caffeine RT deviation colchicine impurities inclusions Hermes satellite . . . . ergotamine USE Communications Technology . hyoscine inhomogeneity Satellite range (extremes) . . . 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 . polynomials . cyanurates vices are dependent on the relative lineup of the . . . . cyanuric acid . Hermitian polynomial energy bands at the junctions. 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 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 cyanocobalamin modulation doping diagrams . Hertzsprung-Russell diagram cytidylic acid quantum efficiency asymptotic giant branch stars . . . dimenhydrinate quantum well lasers color-color diagram endrin quantum wells ... ethylene oxide color-magnitude diagram semiconductor junctions horizontal branch stars solar energy conversion waveguide lasers 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

. . . purines

... adenines

. . promethazine

. . absorption spectra

. . . Herzberg bands

. . absorption spectra

. spectral bands

. heterojunctions

modulation doping

homojunctions

junction diodes

quantum cascade lasers quantum wells resonant tunneling diodes silicon junctions solar cells thin films tunnel junctions

#### heterophoria

UF exophoria 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

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 ... dienes

. . . . 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

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

... hexokinase

#### hexoses

GS organic compounds

. carbohydrates

. . sugars

. . . monosaccharides

. . . . hexoses

. . . . . galactose

. . . . . glucose

#### 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

HFB-320 aircraft

RT ∞ aircraft

HFIR

USE high flux isotope reactors

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

target acquisition

measurement UF HITAB program RT ∞ measurement

# 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

∞ 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 ŬSE 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

Vela satellites

#### high aspect ratio

∞ tests

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

... ultraviolet spectrometers ... 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 USE **HEAO 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 USE HEAO 1

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

.... high energy electrons

. . . relativistic electron beams

. corpuscular radiation

. . energetic particles

... electrons

. . . . high energy electrons

. . . . relativistic electron beams

. elementary particles

. . fermions

. . . leptons . . . . electrons

. . . . 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)

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 HE 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 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 RT 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 pressure rates (per time) spacecraft cabin atmospheres . acceleration (physics) RT high speed cameras . high gravity environments photographic recording  $RT\, \infty\, acceleration$ high Q high speed transportation USE Q factors centrifuges 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 strength alloys high intensity lasers 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 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.

RT bandstop filters hot air ... high Reynolds number 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 GS 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 RT 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

GS lubricants

high temperature lubricants

gas bearings gas lubricants thermal resistance

high temperature materials 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 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

electrothermal engines gelled propellants gelled rocket propellants ion propulsion nuclear propulsion plasma engines solid propellants storable propellants

#### high temperature research

research

#### . 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)

GS 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

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 HOPE aerospace plane USE hot isostatic pressing Jupiter (planet) hijacking Hipparcos satellite HIMAT DEF An ESA astrometric satellite to determine trigonometric parallaxes, proper motions, USE air piracy USE highly maneuverable aircraft Hilbert space and positions of 100,000 stars, mainly for stars 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 spaceborne astronomy forecasting . . Banach space stellar motions meteorological parameters ... Hilbert space stellar parallax nowcasting . . . Sobolev space geometry oceanographic parameters hippocampus weather forecasting topology GS anatomy . . metric space . nervous system hindlimb suspension ... Hilbert space . . central nervous system (added June 2001) .... Sobolev space Technique for limiting use, activity, or . . . brain movement by immobilizing or restraining animal .... hippocampus Hilbert transformation by suspending from hindlimbs or tails. This hippuric acid GS analysis (mathematics) 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) immobilization GS . 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 hindrance Earth orbits 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 Hiller aircraft GS 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 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 rigid rotors Sikkim USE histograms Tibet RT discrete functions hinges graphs (charts) ŬF hinged rotor blades Himalia normal density functions

hinges

nivots

flapping hinges

bearingless rotors

histology

GS

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 in vitro methods and tests		kinematics vector spaces		semiconductors (materials)
	in vivo methods and tests		vector spaces		
	morphology	hodoso	opes	hole di	stribution (mechanics)
	platelets	GS	3	GS	distribution (property)
	tissue engineering		. radiation measuring instruments	RT	. hole distribution (mechanics) cavities
	tissues (biology)	RT	hodoscopes anticoincidence detectors		• hole distribution
historie	s	***	radiation counters	_	holes (mechanics)
GS	histories		scintillating fibers		perforated shells
РΤ	. case histories				porosity
RT	documentation museums	hogbac			stress concentration
	paleontology	USE	ridges		void ratio
	peacetime	hohlrau	ıms		
	records	DEF	In radiation thermodynamics, cavities		ometry (mechanics)
HITAB p	orogram		valls are in radiative equilibrium with the	DEF .	The sizes, locations, and shapes of
	high alt target and background		energy with the cavity.	periorat RT	ions created in materials. fracture mechanics
	measurement	RT	black body radiation emissivity	111	holes (mechanics)
UIV (vir	(10)		Citilosivity		perforated plates
HIV (viru	human immunodeficiency virus	Hohmai	nn trajectories		perforated shells
002	naman minanoachololoy viras	USE	elliptical orbits		stress concentration
	(simulator)		transfer orbits		stress intensity factors structural analysis
USE	High Vacuum Orbital Simulator	Hohmai	nn transfer orbits		Structural arialysis
HL-10 r	eentry vehicle	USE	elliptical orbits		
GS	gliders		transfer orbits	hole m	•
	. HL-10 reentry vehicle			GS	electrical properties
	lifting bodies	holders			. carrier mobility hole mobility
	. lifting reentry vehicles HL-10 reentry vehicle	GS	holders . flame holders		mobility
	reentry vehicles	RT	anchors (fasteners)		. carrier mobility
	. maneuverable reentry bodies		bands		hole mobility
	. lifting reentry vehicles		bolts		transport properties
ОТ	HL-10 reentry vehicle		brackets		. carrier mobility
RT	hypersonic gliders		clamps	RT	hole mobility atomic mobilities
HLD-35	reentry vehicle		clips fasteners	• • • • • • • • • • • • • • • • • • • •	charge carriers
GS	lifting bodies		jigs		electromigration
	lifting reentry vehicles		latches		electron mobility
	HLD-35 reentry vehicle reentry vehicles		lugs		holes (electron deficiencies)
	. maneuverable reentry bodies		mechanical devices	٥	solid state physics
	lifting reentry vehicles		nuts (fasteners)		
	HLD-35 reentry vehicle		pins positioning devices (machinery)		
RT	hypersonic gliders		rivets	SN	(USE OF A MORE SPECIFIC TERM IS
HLLV			screws		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)
USE	heavy lift launch vehicles	۰	o spikes	RT	boreholes
LIMD (-	(		splines		cavities
HMD (d.	helmet mounted displays		straps studs (structural members)		coronal holes gaps
	nemet mounted displays		zippers		holes (electron deficiencies)
HMX					holes (mechanics)
UF	cyclotetramethylene tetranitramine tetranitrotetrazacyclooctane	∞ holding	•		
GS	explosives	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	holos (	electron deficiencies)
0.0	. HMX		LISTED BELOW)		ed November 1991)
	nitrogen compounds	RT	constraints	UF	electron holes
	. azo compounds		delay retaining	GS	charge carriers
	HMX		stopping		holes (electron deficiencies)
	organic compounds . cyclic compounds		3	RT	acceptor materials crystal defects
	heterocyclic compounds	hole bu			donor materials
	HMX		A laser process that depletes, spatially		electrons
	propellants		trally, the electron/hole pair density in a of space or frequency of high coherent		excitons
	. rocket propellants		eing spatial hole burning and spectral		hole distribution (electronics)
	solid rocket propellants HMX		rning respectively.		hole mobility
	. solid propellants	RT	computer storage devices	۰	<ul> <li>holes</li> <li>majority carriers</li> </ul>
	solid rocket propellants		holography	۰	∘ materials
	HMX		laser applications lasers		minority carriers
	pyrotechnics		lasing		order-disorder transformations
	. HMX		memory (computers)		p-type semiconductors
HNPF (I	Hallam Nuclear Power Facility)				resonant tunneling diodes semiconductor plasmas
USE	Hallam Nuclear Power Facility	∞ hole di			semiconductors (materials)
HNST		SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		Suhl effect
USE	hexanitrostilbene		LISTED BELOW)		vacancies (crystal defects)
HO 1 5	elicopter	RT	current distribution hole distribution (electronics)		
	OH-4 helicopter		hole distribution (mechanics)	holes (i	mechanics)
	•		diodibation (moontainos)		ed September 1988)
HO-5 he		hole dis	stribution (electronics)		cavities
USE	OH-5 helicopter	GS	distribution (property)		hole distribution (mechanics)
	elicopter	DT	. hole distribution (electronics)		hole geometry (mechanics)
USE	OH-6 helicopter	RT	charge distribution current distribution	۰	<ul><li>holes</li><li>perforated plates</li></ul>
hodogra	aphs	۰	• hole distribution		perforated shells
RT	Chaplygin equation		holes (electron deficiencies)	۰	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 ∞ 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 DEF 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 up interference patterns with a reference beam. chemical elements 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 coherent light holmium isotopes points. data storage chemical elements anisotropic media differential interferometry . nuclides homogenizing diffractive optics
Gabor transformation sampling statistical tests . . isotopes ... 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 image correlators . homogeneous turbulence . . holmium 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 Cenozoic Era speckle patterns USE homogenizing . Quaternary period wave front reconstruction homogenizing . Holocene epoch homogenization geochronology holomorphism mixing GS Pleistocene epoch USE analytic functions . homogenizing agitation colloiding homeostasis hologrammetry holography acclimatization imaging techniques acid base equilibrium compounding photographic recording adaptation dispersing 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. semiconductor junctions holography respiratory system laser outputs skin (anatomy) homojunctions Moire interferometry stress (physiology) heterojunction devices thermoregulation heterojunctions scatter plates (optics) silicon junctions speckle holography thromboplastin wave front reconstruction water balance solar cells homeotherms holographic optical elements homology (added April 1995) UF 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 body temperature diffraction paths ∞ relationships geometrical optics mammals topology holographic interferometry vertebrates imagery homomorphisms GS algebra laser beams homing

The following of a path of energy

waves to or toward their source or point of

reflection

group theory homomorphisms

... automorphisms

light transmission

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.

GS Earth atmosphere

homosphere biosphere chemosphere Earth ionosphere lower atmosphere mesosphere middle atmosphere ozonosphere stratosphere thermosphere troposphere upper atmosphere

#### homotopy theory

GS geometry

RT

- . topology
- . homotopy theory

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)

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

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

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.

horizon GS

. event horizon gyro horizons

radio horizons 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 ŘТ 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 distribution (property) prostaglandins . spatial distribution hot atoms ... thyroxine . horizontal distribution DEF 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 . hot cathodes ... horn antennas 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 RT 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 corrosion GS ∞ 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 USE stabilizers (fluid dynamics) hot cycle propulsion system ∞ power USE tip driven rotors power efficiency horizontal tail surfaces work tail planes GS horses hot electrons . horizontal tail surfaces GS particles animals assemblies . vertebrates . charged particles . tail assemblies . . energetic particles . . mammals . . horizontal tail surfaces . . horses . . . electrons .... hot electrons control surfaces grazing . horizontal tail surfaces livestock . corpuscular radiation

horseshoe vortices

UF

GS

RT

(added July 1989)

vortices

hairpin vortices

Abrikosov theory

horseshoe vortices

. . energetic particles

.... hot electrons . elementary particles

. . . electrons

. . fermions

...leptons

. . . . electrons

stabilizers (fluid dynamics)

. horizontal tail surfaces

. horizontal tail surfaces

elevators (control surfaces)

tail surfaces

aerial rudders

surfaces

	hot electrons		white dwarf stars		. wind tunnels
hat avtr	ıdina	DT	Wolf-Rayet stars		. hypersonic wind tunnels
hot extru	extruding	RI	cataclysmic variables		hotshot wind tunnels
USL	extracting		peculiar stars red dwarf stars		hypervelocity wind tunnels
hot form	ina		red dwarr stars	RT	hotshot wind tunnels blowdown wind tunnels
	hot working	hot sui	faces	N1	shock tubes
	<b>g</b>		heat transfer		
hot gas	systems	n i	Rayleigh-Benard convection		shock tunnels
	high temperature gases		∞ surfaces	la a A contra	
			~ Surfaces		e anemometers
hot gase	es	hot wa	ter rocket engines	GS	measuring instruments
USE	high temperature gases		engines		. anemometers
		ao	. rocket engines	RT	hot-wire anemometers flow measurement
	static pressing		hot water rocket engines	ΠI	flowmeters
	A thermomechanical process for form-				meteorological instruments
	al-powder compacts or ceramic shapes	hot we	ather		velocity measurement
	of isostatically applied gas pressure in	GS	weather		velocity measurement
	achieve high density in the treated		. hot weather	hot-wir	e flowmeters
	Used for HIP (process).	RT	heat stroke		hot-wire turbulence meters
	HIP (process)		summer	GS	
us	forming techniques		tropical regions	0.0	. flowmeters
	. pressing (forming)				hot-wire flowmeters
	hot pressing	hot wo	•	RT	
	hot isostatic pressing	DEF	Controlled mechanical operations for		plasma electrodes
	hardening (materials)		g a product at temperatures above the		thermal conductivity
	. hot pressing hot isostatic pressing		allization temperature. Used for hot form-		turbulence meters
	thermomechanical treatment	ing.			
	. hot pressing	UF		hot-wire	e turbulence meters
	. hot isostatic pressing	GS	forming techniques	USE	
RT	coining		. hot working	<del>-</del>	turbulence meters
	cold pressing	D	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
00	pressing		metal working	RT	turbojet engines
	sintering		pultrusion shearing		
	stamping		upsetting	Housel	nolder transformations
	upsetting		upsetting	GS	transformations (mathematics)
		hot-filn	n anemometers		. Householder transformation
hot jet e.		GS		RT	problem solving
	high temperature gases	0.0	. anemometers		
	jet exhaust		hot-film anemometers	housek	reeping (spacecraft)
L-4:-4-		RT	flow measurement	GS	
hot jets	! # #		meteorological instruments		. housekeeping (spacecraft)
USE	jet flow		sonic anemometers		cleanliness
hot mad	chining		velocity measurement		housekeeping (spacecraft)
	machining		wind (meteorology)	RT	73
ao	. hot machining		wind measurement		sanitation
RT	forming techniques		wind vanes		sterilization
	Torring toomingade		wind velocity		washing
hot plasi	mas		wind velocity measurement	la a constru	
UŚE	high temperature plasmas			housin	
			. launch vehicle	GS	housings
not 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 com			unches will be manned.	DT	. radomes
GS	forming techniques	GS	aerospace vehicles	HI o	∞ containers coverings
	. pressing (forming)		. aerospace planes		
	hot pressing		HOTOL launch vehicle		domes (structural forms) enclosure
	hot isostatic pressing		launch vehicles		enclosures
	hardening (materials)		. reusable launch vehicles single stage to orbit vehicles		fairings
	. hot pressing		HOTOL launch vehicle		quards (shields)
	hot isostatic pressing		maneuverable spacecraft		nacelles
	thermomechanical treatment		. aerospace planes		perforated shells
	. hot pressing		HOTOL launch vehicle		protection
RT	hot isostatic pressing		reentry vehicles		protectors
нı	coining		. recoverable spacecraft		protuberances
	cold pressing		reusable spacecraft		shells (structural forms)
	compacting		aerospace planes		shielding
	forging metal working		HOTOL launch vehicle		walls
	pressing		single stage to orbit vehicles		
	sintering		HOTOL launch vehicle	Housto	on (TX)
	stamping		soft landing spacecraft		cities
	upsetting		. aerospace planes		. Houston (TX)
	apootting		HOTOL launch vehicle	RT	texas
not star	s		unmanned spacecraft		
	celestial bodies		. HOTOL launch vehicle	hovercr	raft
30	. stars	RT	launch vehicle configurations		ground effect machines
	. early stars	111	space shuttles	302	3. Tana 1.100t maominos
	hot stars		space transportation	hovere	raft ground effect machines
	A stars		space transportation spacecraft launching	UF	
	B stars		UK space program	GS	ground effect machines
	shell stars	,	∞ vehicles	40	. hovercraft ground effect
	Sigma Orionis				machines
	blue stars	hotsho	t wind tunnels	RT -	∞ aircraft
	O stars		test facilities	111 %	research aircraft
		45			

water takeoff and landing aircraft RT ∞ aircraft RT spokes HS-801 aircraft hovering GS Hawker Siddeley aircraft
. HS-801 aircraft **Hudson Bay (Canada)** GS maneuvers bays (topographic features) . hovering Hudson Bay (Canada) RT 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 rivers hovering rocket vehicles aerial reconnaissance GS 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 USE SH-3 helicopter hovering rocket vehicles **Hughes aircraft** rocket vehicles GS Hughes aircraft HTGR hovering rocket vehicles high temperature gas cooled . AH-64 helicopter USE . 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
. Hugoniot equation of state
compressible flow . rocket propellants . dynamic stability GS . . solid rocket propellants . . motion stability ... HTPB propellants . . . aircraft stability . solid propellants . . hovering stability . . solid rocket propellants equations 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) GS<sup>°</sup> USE UH-1 helicopter 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 seanlanes 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 HS-748 aircraft telescopes AVRO Whitworth HS-748 aircraft human beings spaceborne telescopes Hawker Siddeley aircraft . Hubble Space Telescope man James Webb Space Telescope Space Shuttle payloads spaceborne astronomy HS-748 aircraft RT GS animals jet aircraft . vertebrates . . mammals . turboprop aircraft . . . primates .. HS-748 aircraft ... human beings monoplanes ultraviolet astronomy aborigines . HS-748 aircraft anthropology passenger aircraft hubs

rotor hubs

census

UF

. HS-748 aircraft

	children		workstations		personnel
	chimpanzees		WOLKSTATIOLIS		personnel development
	clinical medicine	human	factors laboratories		personnel management
	cultural resources	GS	laboratories		percernici management
	demography		. human factors laboratories	human	tolerances
	females	RT	environmental laboratories	GS	tolerances (physiology)
	males				. human tolerances
	man environment interactions	human	immunodeficiency virus	RT ∝	acceleration
	parents	(add	ed August 1991)		acceleration tolerance
	patients	DEF	A virus which attacks the human im-		diving (underwater)
	race factors	mune s	ystem and causes acquired immunode-	~	∘ endurance
	races (anthropology)		syndrome (AIDS).		heat acclimatization
	youth		HIV (virus)		heat tolerance
		GS	microorganisms		noise pollution
human			. viruses		noise tolerance
GS	anatomy		human immunodeficiency virus		orthostatic tolerance
БТ	human body	RT	acquired immunodeficiency syndrome		radiation tolerance
RT	appendages		antibodies		shock (physiology)
~	bodies		immune systems	human	westes
	body measurement (biology) exercise physiology		immunology interferon	GS	wastes
	limbs (anatomy)		vaccines	GS	. metabolic wastes
	lumbar region		viral diseases		. human wastes
	posture		virulence		feces
	sciatic region		virulerice		urine
	Sciatic region	human	pathology	RT	activated sludge
human	centrifuges	GS	medical science		air pollution
UF	piloted centrifuges	ao	. pathology		environment pollution
GS	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
	3 3 ,		F-m		sewage
human e	engineering	human	performance		sewers
USE	human factors engineering	GS	human performance		solid wastes
			. astronaut performance		toilets
human	factors engineering		blackout prevention		waste disposal
DEF	Application of information on physical		. operator performance		•
	chological characteristics of man to the		. pilot performance	human-	-computer interface
	of devices and systems for human use.		blackout prevention	UF	man-computer interface
	ergonomics and human engineering.	RT	abilities		user-computer interface
UF	ergonomics		competition	GS	interfaces
	human engineering	٥	o 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	٥	o performance		document markup languages
~	astronautics		pilot error		graphical user interface
	bioengineering biofeedback		psychomotor performance		human factors engineering
	bionics		race factors		hypertext
	body measurement (biology)		sensorimotor performance		natural language processing
	brightness		visual tasks		pilot support systems
	color		workloads (psychophysiology)		query languages
	comfort	human	reactions		user requirements
	cybernetics		biological effects		virtual reality
	education	111	boredom	Humae	on comet
	efficiency		competition	GS	celestial bodies
~	engineering		emotional factors	ao	. comets
	environmental engineering		laughing		Humason comet
	environments		noise pollution	RT	solar system
	fatigue (biology)		physiological effects		•
	flat panel displays		psychological effects	humeru	IS
~	flight stress		psychomotor performance	RT	arm (anatomy)
	glare	۰	∘ reaction		elbow (anatomy)
	human resources		reaction time		
	human-computer interface		reward (psychology)	humidit	
	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	3
	manned space flight				atmospheric density
	manual control		relations		atmospheric moisture
	monocular vision	UF	interpersonal relations employee relations		body temperature climatology
	noise (sound)	וח	• •		comfort
~	performance		personnel management		corrosion
	pilot error 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 revarieting phase from (wave from his year garded 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) 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

GS spraying

. 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 superhybrid materials

# hybrid computers

data processing equipment . computers . 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

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 ∞ 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	hvdrauli	c pumps		nitroforms
	hydrolysis hydrophobicity		hydraulic equipment		propellants
	, d. op. losion,		pumps		. hydrazine nitroform
	actuators	la vedue vol.	in about		-
USE	actuators hydraulic equipment	-	ic shock mechanical shock	hvdrazi	ine perchlorates
	nyuraune equipment	ao	. hydraulic shock		halogen compounds
	c analogies		· .		. chlorine compounds
GS	analogies		c systems hydraulic equipment		perchlorates hydrazine perchlorates
RT	. hydraulic analogies computerized simulation	USL	nyuraunc equipment		hydrazines
• • • •	flow visualization		ic test tunnels		hydrazine perchlorates
	fluerics	UF GS	water tunnels test facilities		
	fluidics gas flow	do	. hydraulic test tunnels	hydrazi	ines
	numerical flow visualization	RT ∝	tunnels	GS	hydrazines
	wave propagation	h!!			. chlorpromazine
bydrauli	a control	hydrauli USF	c vaives hydraulic equipment		. dihydrazine . dimethylhydrazines
UF	c control electrohydraulic control	002	valves		. ethylene dihydrazine
RT	automatic control				. hydrazine borane
000	OOTHO	<ul> <li>hydraul</li> <li>SN</li> </ul>	(USE OF A MORE SPECIFIC TERM IS		hydrazine perchlorates     methylhydrazine
	electronic control engine control	OIN	RECOMMENDEDCONSULT THE TERMS		monomethylhydrazines
	fluid power	RT	LISTED BELOW) fluid dynamics		. tetrafluorohydrazine
	fluidics		fluid flow	RT	aerozine
∞	hydraulics		fluid mechanics		amines hydrazides
	pneumatic control remote control		fluid power hydraulic control		hydrazones
	solenoid valves		hydraulic equipment		liquid rocket propellants
			hydraulic fluids		rocket propellants
hydrauli UF	c equipment hydraulic actuators		hydrodynamic ram effect		
Oi	hydraulic heating sources		hydrodynamics hydrology		nium compounds
	hydraulic pumps		hydromechanics	GS	nitrogen compounds
	hydraulic systems		hydrostatics	RT 。	. hydrazinium compounds • chemical compounds
GS	hydraulic valves hydraulic equipment		impedance		
ao	. aircraft hydraulic systems		influence coefficient limnology	hydrazo	oio acid
RT	airborne equipment		mechanics (physics)	GS	acids
	automatic control valves cocks		pipes (tubes)		. hydrazoic acid
	cushions		pneumatics pressure heads		nitrogen compounds
∞	equipment		thermohydraulics	RT	. <b>hydrazoic acid</b> nitrogen hydrides
	fluid amplifiers		water	111	Titiogen flydrides
	fluid power fluid switching elements		water flow		
	fly by tube control		water pressure	<b>hydrazo</b> GS	nitrogen compounds
	gates (openings)	hydrazi	des	40	. hydrazones
000	hydraulics motors	RT	hydrazines	RT	hydrazines
	network analysis	hvdrazi	ne borane		
	network synthesis	GS	boron compounds	hydrazo	onium compounds
	pumps		. boron hydrides	RT ∘	∞ chemical compounds
	relief valves servocontrol		boranes hydrazine borane		
	servomechanisms		hydrazines	hydride	
	shock absorbers		hydrazine borane	GS	hydrogen compounds
000	systems turbine wheels		hydrogen compounds		. hydrides borohydrides
	valves		. hydrides boron hydrides		aluminum borohydrides
	water hammer		boranes		beryllium borohydrides
	wheel brakes		hydrazine borane		boron hydrides aluminum borohydrides
hydrauli	c fluids	hvdrazi	ne engines		beryllium borohydrides
DEF	Liquids used in hydraulic systems for	UF	NIMPHE (engine)		boranes
	ing power.	GS	engines		carborane
GS	liquids . hydraulic fluids		<ul><li>rocket engines</li><li>liquid propellant rocket engines</li></ul>		hydrazine borane pentaboranes
	Skydrol (trademark)		hydrazine engines		diborane
RT	fluid pressure	RT	monomethylhydrazines		dihydrides
	fluid transmission lines		turborocket engines		metal hydrides aluminum hydrides
∞	fluids high temperature fluids	hvdrazi	ne nitrate		aluminum borohydrides
000	hydraulics		nitrogen compounds		beryllium hydrides
	oils		. nitrates		cesium hydrides
	patch tests transmission fluids		. inorganic nitrates hydrazine nitrate		lithium hydrides lithium aluminum hydrides
	working fluids		nyurazine muate		potassium hydrides
	-		ne nitroform		sodium hydrides
	heating sources heat sources	GS	esters		nitrogen hydrides amino radical
USE	hydraulic equipment		. organic nitrates nitroforms		phosphines
			hydrazine nitroform		silanes
hydrauli			explosives		chlorosilanes
UF GS	water jets fluid jets		. hydrazine nitroform nitrogen compounds		methyl chlorosilanes zirconium hydrides
40	. hydraulic jets		. nitrates	RT	deuterides

#### hydroballistics

hydrogen production 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 ballistics GS coal utilization . . diphenyl compounds hydroballistics ... diphenyl hydantoin endothermic fuels ballistic ranges energy policy environmental chemistry . . fluorohydrocarbons hydrodynamics . . . carbon tetrafluoride torpedoes ethane chlorofluoromethane . . . 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 hypergolic rocket propellants GS . . 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 acids hydrocarbon poisoning hydrobromides hydrochloric acid diseases GS halogen compounds 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 oxidation . . aliphatic hydrocarbons . halides propellant combustion . . . alkanes . . chlorides . . . . butanes smoa . 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 biomass energy production energy technology nonanes environment. . . . . 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) . . . alkynes . . . . coal . . 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 fractionation . . . . shale oil 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 . . . JP-7 jet fuel ... benzene hydrogen cyanides UF . . . . JP-8 jet fuel prussic acid . chlorobenzenes

. . . colchicine

GS

acids

. . . synthane

hydrocyanic acid internal flow guide vanes hydrogen compounds Krook equation hulls (structures) . hydrocyanic acid Lagrange coordinates 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 floatskis water 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 hydroforming flow velocity elastic properties 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. hydroelectric power stations para hydrogen ram effect (hydrodynamics) power plants Paschen series  $RT \, \infty \, effects$ turbogenerators Rydberg series fluid filled shells synthane hydrofluoric acid ∞ hydraulics Uranus atmosphere hydrogen fluorides UF hypervelocity impact GS impact acids hydrogen 2 hydrofluoric acid kinetic energy ÚSE 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 USE hydrofoil craft . nuclides hydrodynamics . . isotopes GS mechanics (physics) hydrofoil craft ... hydrogen isotopes . fluid mechanics hydrofoil boats ... hydrogen 4 . . fluid dynamics RT captured air bubble vehicles gases ... hydrodynamics hydrofoils . hydrogen . . . . elastohydrodynamics hydroplanes (vehicles) . . hydrogen isotopes . . . . electrohydrodynamics ships ... hydrogen 4 . . magnetohydrodynamics . . hydromechanics hydrofoil oscillations hydrogen air fuel cells
USE hydrogen oxygen fuel cells ... hydrodynamics oscillations . . . . elastohydrodynamics hydrofoil oscillations electrohydrodynamics flow stability . . . magnetohydrodynamics hydrogen atoms flutter RT ballast (mass) hydrofoils GS atoms supercavitating flow hydrogen atoms ∞ dynamics Earth sciences H I regions Euler equations of motion hydrogen hydrofoils flow theory GS hydrofoils fluid flow . keels hydrogen azides fluid power airfoils GS explosives hydrogen azides
 nitrogen compounds
 azides (inorganic)
 hydrogen azides gas dynamics ∞ hydraulics ∞ blades elevators (control surfaces) hydroballistics

fins

foils (materials)

∞ foils

hydrodynamic equations

hydrostatics

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 chemical bonds . . . tritium GS hydrogen deuterium oxide USE **heavy water** hydrogen bonds 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 DFF 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 engines and lox-hydrogen engines. . . gas turbine engines Orion nebula . . hydrogen engines RT ∞ clouds aircraft 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 hydrocarbon fuel production . aluminum borohydrides . . 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 ramiet engines . . . boranes phosphoric acid fuel cells carborane slush hydrogen . hydrazine borane water splitting hydrogen perchlorate . pentaboranes GS halogen compounds . . diborane hydrogen ions . 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 . hydrobromides metallic hydrogen GS particles . charged particles . hydrocyanic acid . . . tritium hydrogen peroxide . nuclides . . energetic particles hydrogen sulfide . . . plasmas (physics) . . isotopes . hydrosulfites . light water .... hydrogen plasma .... deuterium plasma . corpuscular radiation ... hydrogen isotopes

. . . . hydrogen 4

. . . . metallic hydrogen

. . energetic particles

RT

acids

∞ chemical compounds

	hydrology	marine chemistry
plasmas (physics) <b>hydrogen plasma</b>	. hydrogeology	meteorology
deuterium plasma	RT aquifers	oceanography
RT argon plasma	core sampling	polar meteorology
deuterium	erosion	precipitation (meteorology)
helium plasma	flood plains	rain
hydrogen	flood predictions	streams
oxygen plasma	geysers	structural properties (geology)
solar wind	glaciology	water management
Stark effect	hydrology models	water management
hydrogen production	hydrostatics ∞ science	water resources 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		tions by which the circulation, distribution, and
energy conversion	hydrography	properties of the waters of the Earth can be
fuels	DEF The science that deals with the physi-	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	hydrology	floods
thermal dissociation	hydrometeorology ice mapping	hydrogeology
water splitting	limnology	hydrological cycle precipitation (meteorology)
hydrogen recombinations	meteorology	rain
GS recombination reactions	ocean currents	streams
. hydrogen recombinations	ocean surface	water flow
· · · <b>,</b> · · · <b>3</b> · · · · · · · · · · · · · · · · · · ·	oceanography	mater new
hydrogen sulfide	gpy	hydrolysis
GS chalcogenides	hydrokinetics	GS chemical reactions
. sulfides	USE hydromechanics	. hydrolysis
inorganic sulfides		RT ammonolysis
hydrogen sulfide	hydrological cycle	cracking (chemical engineering)
hydrogen compounds	UF water cycle (hydrology)	extraction
hydrogen sulfide	GS cycles	hydration
sulfur compounds	. hydrological cycle	hydrogen production
. sulfides	RT air water interactions Earth hydrosphere	phosphatases
inorganic sulfides	evaporation	hydromognotic flow
hydrogen sulfide	hydrology	hydromagnetic flow USE magnetohydrodynamic flow
hydrogenation	hydrology models	OOL magnetonyarodynamic now
GS chemical reactions	hydrometeorology	hydromagnetic stability
. reduction (chemistry)	precipitation (meteorology)	USE magnetohydrodynamic stability
hydrogenation	F F (	g,,,
RT asphaltenes	hydrology	hydromagnetic waves
	(added February 1991)	USE magnetohydrodynamic waves
cyclohexane		OOL magnetonyurodynamic waves
cycionexane dehydrogenation	DEF The science that deals with global wa-	00L magnetonydrodynamic waves
	DEF The science that deals with global water (both liquid and solid), its properties, circula-	hydromagnetics
dehydrogenation	DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's	
dehydrogenation hydrogen refining	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 evapo-	hydromagnetics USE magnetohydrodynamics
dehydrogenation hydrogen refining hydrogen-based energy	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	hydromagnetics USE magnetohydrodynamics hydromagnetism
dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy	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	hydromagnetics USE magnetohydrodynamics
dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology	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-	hydromagnetics USE magnetohydrodynamics hydromagnetism USE magnetohydrodynamics
dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells	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.	hydromagnetics USE magnetohydrodynamics hydromagnetism USE magnetohydrodynamics hydromechanics
dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures	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	hydromagnetics USE magnetohydrodynamics hydromagnetism USE magnetohydrodynamics hydromechanics UF hydrokinetics
dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels	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	hydromagnetics USE magnetohydrodynamics hydromagnetism USE magnetohydrodynamics hydromechanics UF hydrokinetics GS mechanics (physics)
dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen fuels	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	hydromagnetics USE magnetohydrodynamics hydromagnetism USE magnetohydrodynamics hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics
dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen fuels hydrogen production	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	hydromagnetics USE magnetohydrodynamics hydromagnetism USE magnetohydrodynamics hydromechanics UF hydrokinetics GS mechanics (physics)
dehydrogenation hydrogen refining  hydrogen-based energy  RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen fuels hydrogen production liquid hydrogen	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	hydromagnetics USE magnetohydrodynamics hydromagnetism USE magnetohydrodynamics hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics hydromechanics
dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen fuels hydrogen production	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	hydromagnetics USE magnetohydrodynamics hydromagnetism USE magnetohydrodynamics hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics hydromechanics hydrodynamics
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	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 patterns	hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics . hydromechanics hydromechanics hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics
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	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 patterns drought	hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics . hydromechanics . hydromechanics hydromechanics hydrodynamics elastohydrodynamics electrohydrodynamics
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	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 aquifers climatology drainage drainage patterns drought Earth hydrosphere	hydromagnetics USE magnetohydrodynamics hydromagnetism USE magnetohydrodynamics hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics . hydromechanics . hydrodynamics hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics hydrostatics magnetohydrostatics
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 hydrogen selections hydrogenolysis	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	hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics . hydromechanics . hydromechanics . hydromechanics hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics hydrostatics magnetohydrostatics BT fluid dynamics
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	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	hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics . hydromechanics . hydromechanics hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics magnetohydrostatics RT fluid dynamics fluid flow
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	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	hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics . hydromechanics . hydromechanics hydromechanics hydrodynamics elastohydrodynamics magnetohydrodynamics magnetohydrodynamics magnetohydrostatics RT fluid dynamics fluid flow ∞ hydraulics
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 . hydrogenolysis . hydrogenolysis . hydrogenolysis . hydrogenolysis	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	hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics . hydromechanics hydrodynamics hydrodynamics elastohydrodynamics magnetohydrodynamics hydrostatics magnetohydrostatics BT fluid dynamics fluid flow ∞ hydraulics kinetics
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 . hydrogenolysis . hydrocracking	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	hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics . hydrodynamics . hydrodynamics hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics magnetohydrodynamics RT fluid dynamics fluid flow ∞ hydraulics kinetics ∞ science
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)	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	hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics . hydromechanics hydrodynamics hydrodynamics elastohydrodynamics magnetohydrodynamics hydrostatics magnetohydrostatics BT fluid dynamics fluid flow ∞ hydraulics kinetics
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) dehydrogenation	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 predictions floods	hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics . hydromechanics . hydrodynamics leastohydrodynamics electrohydrodynamics magnetohydrodynamics magnetohydrodynamics magnetohydrostatics  RT fluid dynamics fluid flow  hydraulics kinetics  science water
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 Chydrogenolysis rhydrogenolysis hydrogenolysis rhydrocracking decomposition hydrogenolysis chydrocracking RT cracking (chemical engineering) dehydrogenation hydrogen	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	hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics . hydromechanics . hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics hydrostatics magnetohydrostatics RT fluid dynamics fluid flow ∞ hydraulics kinetics ∞ science water  hydrometallurgy
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) dehydrogenation	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	hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics . hydrodynamics . hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics magnetohydrodynamics magnetohydrostatics RT fluid dynamics fluid flow  hydraulics kinetics  science water  hydrometallurgy RT chlorination
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 Chydrogenolysis rhydrogenolysis hydrogenolysis rhydrocracking decomposition hydrogenolysis chydrocracking RT cracking (chemical engineering) dehydrogenation hydrogen	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	hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics . hydromechanics . hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics hydrostatics magnetohydrostatics RT fluid dynamics fluid flow ∞ hydraulics kinetics ∞ science water  hydrometallurgy
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 w reduction	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)	hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics hydrodynamics hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics magnetohydrodynamics magnetohydrostatics RT fluid dynamics fluid flow ∞ hydraulics kinetics ∞ science water  hydrometallurgy RT chlorination electrodialysis
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 hydrogenolysis  RT cracking (chemical engineering) dehydrogen ∞ reduction  hydrogenomonas	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)	hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics . hydromechanics . hydromechanics . hydrodynamics . elastohydrodynamics . electrohydrodynamics . magnetohydrodynamics . hydrostatics . magnetohydrostatics RT fluid dynamics fluid flow ∞ hydraulics kinetics ∞ science water  hydrometallurgy RT chlorination electrodialysis filtration
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 reactions . hydrogenolysis . hydrocracking decomposition . hydrogenolysis . hydrocracking edenydrogenation hydrogen ∞ reduction  hydrogenomonas GS autotrophs	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	hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics . hydromechanics hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics magnetohydrostatics RT fluid dynamics fluid flow ∞ hydraulics kinetics ∞ science water  hydrometallurgy RT chlorination electrodialysis filtration ion exchanging
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 deromposition reacking (chemical engineering) dehydrogen ∞ reduction  hydrogenomonas GS autotrophs hydrogenomonas microorganisms bacteria	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	hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics . hydromechanics . hydrodynamics . elastohydrodynamics . electrohydrodynamics . magnetohydrodynamics . magnetohydrodynamics . hydrostatics . magnetohydrostatics RT fluid dynamics fluid flow  hydraulics kinetics  science water  hydrometallurgy RT chlorination electrodialysis filtration ion exchanging leaching  metallurgy
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 cracking (chemical engineering) dehydrogen wreduction  hydrogenomonas GS autotrophs hydrogenomonas microorganisms	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 hydrological cycle hydrometeorology hydrometeors	hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics . hydromechanics . hydrodynamics . leastohydrodynamics . electrohydrodynamics . magnetohydrodynamics . magnetohydrodynamics . hydrostatics . magnetohydrostatics RT fluid dynamics fluid flow  hydraulics kinetics  science water  hydrometallurgy RT chlorination electrodialysis filtration ion exchanging leaching metallurgy precipitation precipitation (chemistry)
dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrogen fuels hydrogen production liquid hydrogen nickel hydrogen batteries renewable energy  hydrogenolysis GS chemical reactions hydrogenolysis hydrogenolysis hydrogenolysis otherical reactions hydrogenolysis hydrogenation hydrogen w reduction  hydrogenomonas GS autotrophs hydrogenomonas microorganisms bacteria hydrogenomonas	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	hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics . hydrodynamics 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
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 cracking (chemical engineering) dehydrogenation hydrogenomonas GS autotrophs . hydrogenomonas microorganisms . bacteria . hydrogeology  hydrogeology	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	hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics . hydromechanics . hydrodynamics . leastohydrodynamics . electrohydrodynamics . magnetohydrodynamics . magnetohydrodynamics . hydrostatics . magnetohydrostatics RT fluid dynamics fluid flow  hydraulics kinetics  science water  hydrometallurgy RT chlorination electrodialysis filtration ion exchanging leaching metallurgy precipitation precipitation (chemistry)
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 . hydrogenomonas microorganisms . bacteria . hydrogeology DEF The science that deals with subsurface	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)  hydroulics hydrological cycle hydrometeorology hydrometeoros ice mapping International Hydrological Decade Lake Erie	hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics . hydrodynamics hydrodynamics elastohydrodynamics elastohydrodynamics magnetohydrodynamics magnetohydrodynamics hydrostatics magnetohydrostatics  RT fluid dynamics fluid flow  bydraulics kinetics  science water  hydrometallurgy RT chlorination electrodialysis filtration ion exchanging leaching  metallurgy  metallurgy  precipitation precipitation precipitation precipitation prefining sulfation
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 racking (chemical engineering) dehydrogen we reduction  hydrogenomonas GS autotrophs hydrogenomonas incroorganisms bacteria hydrogeology DEF The science that deals with subsurface waters and with related geologic aspects of	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)  hydrography hydrological cycle hydrometeorology hydrometeoros ice mapping International Hydrological Decade Lake Erie Lake Huron	hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics . hydromechanics . hydrodynamics hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics magnetohydrodynamics hydrostatics magnetohydrostatics  RT fluid dynamics fluid flow  hydraulics kinetics  science water  hydrometallurgy RT chlorination electrodialysis filtration ion exchanging leaching metallurgy precipitation precipitation precipitation precipitation hydrometeorology
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 . hydrocarcking decomposition hydrogenolysis . hydrocracking decomposition 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	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	hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS mechanics (physics)
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 renewable energy  hydrogenolysis GS chemical reactions hydrogenolysis . hydrogenolysis . hydrogenolysis . hydrogenolysis . hydrogenolysis . hydrocracking decomposition hydrogenolysis . hydrocracking cracking (chemical engineering) dehydrogenation hydrogen ereduction  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.	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	hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS mechanics (physics) . fluid mechanics . hydrodynamics . hydrodynamics . elastohydrodynamics . electrohydrodynamics . magnetohydrodynamics . magnetohydrodynamics . hydrostatics . 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 hydrometeorology GS meteorology GS meteorology hydrometeorology
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 . hydrocarcking decomposition hydrogenolysis . hydrocracking decomposition 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	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	hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS mechanics (physics)

hydrography water landing water pressure hydrological cycle hydrology hydrosulfites hydroponics precipitation (meteorology) GS hydrogen compounds Growing of plants in a nutrient with the water balance hydrosulfites mechanical support of an inert medium such as sulfur compounds hydrometeors . sulfites RT agriculture (added March 1995) . . hydrosulfites aquatic plants DEF A minute droplet of water or crystal of aquiculture ice falling through or suspended in the atmohydrothermal crystal growth plants (botany) GS growth vegetation growth GS condensates crystal growth hydrometeors . hydrothermal crystal growth hydropower stations RT atmospheric moisture electroepitaxy USE hydroelectric power stations dew hydrothermal stress analysis drops (liquids) hydropyrolysis

DEF A coal-to-liquid process in which bitufog DEF The evaluation of the combined effects hydrology of temperature-humidity cycling. minous coal, lignite, tars, sand and related mahydrothermal systems ice nucle terials are rapidly heated to 1000-1100 degrees hygral properties precipitation (meteorology) K in pressurized hydrogen gasification reactors hygroscopicity to generate pure methane. moisture content hydrometers GS gasification Instruments used for measuring the moisture resistance coal gasification specific gravity of a liquid. . . hydropyrolysis hydrothermal systems GS measuring instruments DEF Energy systems utilizing hot water from geysers, hot springs, solar heating, and coal . hydrometers chemical analysis coal liquefaction density (mass/volume) lignite other sources. density measurement methanation RT aquifers weight measurement methane energy conversion geothermal resources hydronium ions geysers hydroscience heating GS ions USE hydrology hydrothermal stress analysis . molecular ions . . hydronium ions solar heating hydroskis . positive ions submarine hydrothermal vents USE hydroplanes (surfaces) . hydronium ions ∞ systems RT hydrogen hydrosphere (Earth)
USE Earth hydrosphere hydrox engines hydrogen ions USE hydrogen oxygen engines hydrophobicity (added June 2000) hydroxides hydrospinning DEF The degree to which a substance is hydroxides DET Ine degree to which a substance is insoluble in water, or resists wetting or hydration.

GS hydrophobicity

RT adsorption chemical properties hydration forming techniques . lithium hydroxides . metal spinning . potassium hydroxides hydrospinning sodium hydroxides metal working alkalies . metal spinning . hydrospinning hydroxycorticosteroid spin organic compounds hygroscopicity metal spinning . lipids moisture resistance hydrospinning . . steroids ∞ properties ... corticosteroids solubility hydrostatic pressure .... hydroxycorticosteroid sorption A state of stress in which all the prinsurface properties cipal stresses are equal (and there is no shear secretions surfactants stress). . endocrine secretions waterproofing GS pressure . . hormones wettability static pressure . . . corticosteroids wetting . . hydrostatic pressure center of pressure .... hydroxycorticosteroid .... cortisone
RT adrenal metabolism hydrophones elevation head (fluid mechanics) Microphones suitable for use in water or other liquid. Used for hydrobarophones. hydrostatics hydrobarophones hydroxyl compounds isostatic pressure GS hydroxyl compounds GS transducers pressure dependence . sound transducers . alcohols pressure heads . . ethyl alcohol . . electroacoustic transducers transition pressure . . hydrophones . . glycols water pressure RT microphones . . isopropyl alcohol . . methyl alcohol sonar sonobuoys hydrostatics . . phenols GS mechanics (physics) . . . bisphenols hydroplanes (surfaces) . fluid mechanics . . . cresols hydroskis . . hydromechanics . . . phloroglucinol RT hydrofoils ... hydrostatics . . . thymol . . polyvinyl alcohol hydroplaning . . magnetohydrostatics skis statics . . triols . hydrostatics . . cyanuric acid ∞ systems . magnetohydrostatics RT ∞ chemical compounds hydroplanes (vehicles) aerostatics organic compounds hydrofoil craft elevation head (fluid mechanics) hydroplaning hydroxyl emission ∞ vehicles ∞ hydraulics electromagnetic radiation hydrodynamics . radio waves hydroplaning hydrogeology . . radio emission hydrofoils hydrostatic pressure . . . hydroxyl emission isostasy emission hydroplanes (surfaces) . radio emission hydroplanes (vehicles) pressure gradients

pressure heads

water

. . hydroxyl emission

RT emission spectra

skid landings

skiddina

radio sources (astronomy)

#### hydroxyl radicals

GS radicals

free radicals

. hydroxyl radicals

alcohols ∞ chemistry formyl ions glycols ions

#### 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

RT

hygiene

oral hygiene bathing

cleanliness

consumables (spacecrew supplies)

housekeeping (spacecraft)

public health sanitation

#### hygral properties

DEF The affinity of something for moisture.

hygral properties GS hydrophobicity

humidity

hydrothermal stress analysis

moisture porosity

∞ properties

#### hygrometers

Instruments for measuring the humid-

ity of the atmosphere.

measuring instruments GS . moisture meters

. . hygrometers

. psychrometers

chemical analysis 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

#### hyoscine

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.

geometry

. Euclidean geometry

. . analytic geometry

. . . conics

. . . hyperbolas

RT hyperbolic trajectories

### hyperbolic coordinates

UF hyperbolic space GS coordinates

. hyperbolic coordinates

#### hyperbolic differential equations

analysis (mathematics)

. real variables

. . differential equations

#### hyperbolic differential

### equations

RT Dirichlet problem

∞ equations

essentially non-oscillatory schemes

wave equations

# hyperbolic functions

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

. Ioran 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

#### 

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

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 GS carbon dioxide tension

hypercapnia

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 line spectra muon spin rotation

# ∞ structures

hypergeometric functions
UF Jacobi polynomials

GS

spectrum analysis

Jacobi polynomials
analysis (mathematics)
. complex variables
. hypergeometric functions functions (mathematics)

. hypergeometric functions
Bessel functions

geometry

# hyperspaces

hypergeometry USE hyperspaces

hyperglycemia metabolism

. carbohydrate metabolism

hyperglycemia

#### hypergolic rocket propellants

GS propellants

. rocket propellants

... liquid rocket propellants

... hypergolic rocket propellants flow velocity strangeness cryogenic rocket propellants gas flow gelled rocket propellants hyperopia hypersonics hybrid propellants GS acuity hypervelocity wind tunnels hydrocarbon fuels visual acuity Lighthill gas model monomethylhydrazines . hyperopia shock tubes pyrophoric materials defects shock tunnels solid propellant ignition hyperopia shock waves eye diseases spontaneous combustion supersonic flow storable propellants wind tunnels hyperoxia hypersonic forces hypergravity (added June 2001) DEF A condition in which the total oxygen 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 DEF One of the natural satellites of Saturn oxygen toxicity orbiting at a mean distance of 1,481,000 kilome-RT hyperventilation 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 speeds. ... Hyperion gliders . . Saturn satellites hyperplanes . hypersonic gliders GS analysis (mathematics) . Hyperion . X-20 aircraft . real variables Saturn (planet) hypersonic vehicles . hyperplanes . hypersonic aircraft . . hypersonic gliders . . . X-20 aircraft hyperkinesia hyperspaces DEF Excessive exercise, that is often acpolytopes RT aerospace planes ∞ aircraft companied by uncontrollable muscular moveset theory ment. ASSET gliders GS physical exercise hyperpnea boostglide vehicles hyperkinesia RT ∞ breathing HL-10 reentry vehicle HLD-35 reentry vehicle RT exhaustion respiratory rate fatigue (biology) hypokinesia hypersomnia lifting reentry vehicles stress (physiology) GS sleep paragliders hypersomnia work capacity hypersonic heat transfer hypersonic aircraft hvpermedia GS transmission USE multimedia GS hypersonic vehicles . heat transmission . hypersonic aircraft . . heat transfer hypernea . . hypersonic gliders . . . aerodynamic heat transfer . . X-20 aircraft RT mental performance .... hypersonic heat transfer RT aerospace planes RT aerothermodynamics hypernuclei ∞ aircraft hypersonics boostglide vehicles GS particles supersonic heat transfer hypersonics . charged particles . . energetic particles iet aircraft hypersonic inlets ... nuclei (nuclear physics) ∞ low wing aircraft GS intake systems research aircraft . . . . hypernuclei . air intakes . corpuscular radiation supersonic aircraft . hypersonic inlets . . energetic particles sweptback tail surfaces RT bypass ratio . . . nuclei (nuclear physics) sweptback wings ∞ diffusers . . . hypernuclei trapezoidal tail surfaces engine inlets RT elementary particles inlet airframe configurations radioactive decay hypersonic boundary layer nose inlets boundary layers
. hypersonic boundary layer GS side inlets supersonic inlets laminar boundary layer thermal boundary layer In the classification of subatomic particles according to mass, the heaviest of such hypersonic nozzles particles. Some large and highly unstable comturbulent boundary layer 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 wind tunnel nozzles . . . . hyperons fuel combustion . . xi hyperons hypersonic reentry . . fermions hypersonic flight GS atmospheric entry . . . baryons RT aerodynamics . reentry .... hyperons ∞ flight ... hypersonic reentry . . xi hyperons hypersonics .. uncontrolled reentry (spacecraft) . . hadrons missiles 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 body at speeds much greater than the speed of . . bosons . . . mesons sound and in which the shock waves start at a hypersonic shock finite distance from the surface of the body. hypersonics . . . . hyperons . xi hyperons fluid flow Mach cones GS antiparticles baryon resonance . hypersonic flow noise (sound) RT aerodynamics shock waves

Burnett equations cascade wind tunnels

compressible flow

hypersonic speed

SN (MACH 5 OR GREATER)

charged particles

meson resonance

nucleons

GS rates (per time) RT asteroid collisions hyperplanes hypersonic speed cometary collisions hyperspheres phase-space integral Deep Impact Mission hypersonic speed ∞ space hydrodynamic ram effect impact melts high speed impact velocity hypersonics hyperspheres ∞ hypervelocity geometry mechanical shock supersonic speed hyperspaces meteorite collisions real variables meteoritic damage hypersonic test apparatus point impact hypersonics hypertensin projectile cratering hypervelocity wind tunnels GS drugs Tempel 1 comet . vasoconstrictor drugs missile ranges supersonic test apparatus . hypertensin hypervelocity launchers test equipment organic compounds GS launchers . peptides . hypervelocity launchers hypersonic vehicles . . polypeptides gun launchers GS hypersonic vehicles hypertensin railgun accelerators . hypersonic aircraft secretions ram accelerators . . hypersonic gliders . endocrine secretions ... X-20 aircraft . . hormones hypervelocity projectiles

UF hypervelocity cratering
GS projectiles . X-30 vehicle ... hypertensin . X-37 vehicle X-43 vehicle hypertension hypervelocity projectiles RT ∞ flight vehicles GS pressure HOPE aerospace plane ∞ bombardment . blood pressure Deep Impact Mission hypertension hypersonics ∞ insulated structures myocardial infarction light gas guns meteoroids National Aerospace Plane Program tranquilizers recoverable spacecraft micrometeorites projectile cratering reentry vehicles hypertext . (added July 1995) simulation ∞ spacecraft test vehicles artificial intelligence Tempel 1 comet document markup languages ∞ vehicles electronic publishing waveriders hypervelocity wind tunnels human-computer interface ∞ winged vehicles (ABOVE MACH 10) test facilities information retrieval hypersonic wakes knowledge representation . wind tunnels . . hypervelocity wind tunnels wakes GS . hypersonic wakes aircraft wakes ... cascade wind tunnels ... hotshot wind tunnels hyperthermia RT body temperature fever . . . plasma jet wind tunnels bow waves heat stroke . shock tunnels hypersonics skin temperature (biology) RT blowdown wind tunnels combustion wind tunnels shock waves thermoregulation supersonic wakes hypersonic flow hypersonic wind tunnels hypertonia hypersonic test apparatus USE osmosis GS test facilities hypersonic wind tunnels . wind tunnels low density wind tunnels hypertrophy . . hypersonic wind tunnels magnetic pistons ÚSE growth . . . cascade wind tunnels shock tubes . . . hotshot wind tunnels supersonic wind tunnels hypervelocity . . . plasma jet wind tunnels SN (USE OF A MORE SPECIFIC TERM IS
RECOMMENDED-CONSULT THE TERMS
LISTED BELOW)
DEF Extremely high velocity. Applied by
physicists to speeds approaching the speed of . . shock tunnels hyperventilation blowdown wind tunnels DEF Overbreathing. A respiratory minute combustion wind tunnels volume, or pulmonary ventilation that is greater hypervelocity wind tunnels than normal. low density wind tunnels light, but generally implies speeds of the order of acidosis magnetic pistons satellite speed and greater. alkalosis shock tubes RT escape velocity hyperoxia subsonic wind tunnels hypersonic speed supersonic wind tunnels orbital velocity hypervolemia transonic wind tunnels relativistic velocity RT blood circulation blood volume hypersonics hypervelocity accelerators circulatory system USE hypervelocity guns DEF That branch of aerodynamics that deals with hypersonic flow. GS mechanics (physics) hypervelocity cratering hypnosis . fluid mechanics USE hypervelocity projectiles GS sleep . . fluid dynamics projectile cratering . hypnosis . . . gas dynamics RT anesthesia . . . . aerodynamics hypervelocity flow suggestion fluid flow .... hypersonics GS RT aerothermodynamics hypervelocity flow hypobaric atmospheres flow velocity hypersonic aircraft RT altitude simulation hypersonic flight supersonic flow altitude tolerance hypersonic flow ∞ atmospheres hypersonic forces hypervelocity guns high altitude breathing hypersonic heat transfer UF hypervelocity accelerators high altitude environments hypersonic shock RT ∞ accelerators high altitude pressure hypersonic speed ballistics hypersonic speed hypersonic test apparatus hypersonic vehicles low pressure gas guns vacuum tests ∞ guns hypersonic wakes guns (ordnance)

railgun accelerators

. hypervelocity impact

ram accelerators

hypervelocity impact

impact

GS

supersonic speed

supersonics

hypergeometry

hypergeometric functions

hyperspaces UF hype hypocapnia

DEF Deficiency of carbon dioxide in the

blood and body tissues, which may result in dizziness, confusion, and muscular cramps.

GS carbon dioxide tension

. hypocapnia

#### hypodermis

RT blood . expectancy hypothesis RT hypoxia intermittency hypothesis hypoxia hypodermis Lagrange similarity hypothesis DEF Oxygen want or deficiency; any state GS tissues (biology) null hypothesis . hypodermis . vorticity transport hypothesis assumptions hypodynamia inference oxygen deficiency.

UF oxygen deficiency

RT anoxia RT hindlimb suspension mathematical logic muscles quality control muscular function theorems fasting ∞ theories hypoxemia necrosis hypoelasticity theses GS mechanical properties oximetry . elastic properties hypothetical particles oxygen consumption hypoelasticity (added November 1999) stress (physiology) GS particles hypoglycemia . elementary particles
. hypothetical particles hypsography GS metabolism GS geography . carbohydrate metabolism hypsography . . . gluons . . hypoglycemia contours . . . gravitinos datum (elevation) . . . gravitons hypogravity elevation (added June 2001)
USE microgravity . . . partons mapping . . . quarks maps . . . tachyons relief maps ... weakly interacting massive hypokinesia topography glucocorticoids particles head down tilt hypsometers hindlimb suspension measuring instruments hypothetical planets GS hyperkinesia hypsometers (added June 1998) muscular function RT altimeters Phaethon (hypothetical planet) musculoskeletal system barometers planet X physical exercise rogue planets meteorological instruments transplutonic planets celestial bodies pressure gages hypometabolism GS metabolism GS . planets Any of several effects resembling a hypometabolism hypothetical planets RT thyroid gland comets extrasolar planets hypophysis planetary orbits in a parameter being measured. USE pituitary gland RT accuracy antiferroelectricity hypotension hypotonia antiferromagnetism muscular tonus pressure GS damping dynamic characteristics . blood pressure hypotonia RT . hypotension muscular function eddy currents hemorrhages electrical properties hypoventilation hypothalamus errors DEF A respiratory minute volume, or pulmointernal friction GS anatomy nary ventilation that is less than normal. Also . glands (anatomy) magnetic permeability called underbreathing. . . endocrine glands magnetic properties GS rates (per time) mechanical properties ... hypothalamus . respiratory rate optical bistability . nervous system hypoventilation . . central nervous system  $\infty$  physical properties precision . . . brain hypovolemia . . . . diencephalon retarding RT blood circulation .... hypothalamus shear properties blood volume

RT pituitary gland

# hypothermia

body temperature skin temperature (biology) thermoregulation

#### hypotheses

GS hypotheses

# hypoxemia

DEF The condition of reduction of the normal oxygen tension in the blood.

pressure

. partial pressure

. . oxygen tension

... hypoxemia

wherein a physiologically inadequate amount of oxygen is available to, or utilized by, tissue without respect to cause or degree. Used for

kind of internal friction, accompanied by the generation of heat within the substance affected. The delay of an indicator in registering a change

tensile strength

time lag tolerances (mechanics) viscoelasticity

viscoplasticity

HYTIME

USE document markup languages

#### IBM 1410 computer I beams . computers IBM 1620 computer structural members GS . . digital computers IBM 2250 computer IBM 1410 computer . beams (supports) . . IBM computers . . . IBM 7030 computer . I beams IBM 7040 computer IBM 7044 computer ... IBM 1410 computer RT cantilever beams curved beams IBM 1620 computer IBM 7070 computer trusses GS data processing equipment IBM 7074 computer I2S cameras IBM 7090 computer . computers optical equipment . . digital computers IBM 7094 computer GS IBM 1620 computer cameras . I2S cameras IBM personal computers . . IBM computers RT digital computers photographic equipment ... IBM 1620 computer cameras IBM PC IBM 2250 computer . I2S cameras USE IBM personal computers GS data processing equipment RT aircraft instruments multispectral photography . computers IBM personal computers . . digital computers spacecraft instruments (added September 1992) (INCLUDES IBM COMPATIBLE PERSONAL COMPUTERS) IBM PC SN lapetus . . IBM computers A satellite of Saturn orbiting at a mean ... IBM 2250 computer UF distance of 3,562,000 kilometers. data processing equipment GS IBM 7030 computer GS celestial bodies . computers . natural satellites GS data processing equipment . . digital computers ... microcomputers . . icy satellites . computers . digital computers . lapetus . . . . personal computers IBM 7030 computer . . Saturn satellites . lapetus . . IBM computers . . IBM computers Charon ... IBM 7030 computer IBM personal computers Saturn (planet) RT computer graphics IBM 7040 computer computer programs IBM 360 computer GS data processing equipment GS data processing equipment . computers Icarus asteroid computers . . digital computers GS celestial bodies . . digital computers IBM 7040 computer asteroids . IBM 360 computer . . IBM computers . Icarus asteroid IBM computers ... IBM 7040 computer RT asteroid belts ... IBM 360 computer IBM 7044 computer ICBM (missiles) IBM 370 computer GS data processing equipment USE intercontinental ballistic missiles GS data processing equipment . computers . computers . . digital computers . . digital computers IBM 7044 computer ice . IBM 370 computer . . IBM computers Water in the solid state; specifically, IBM computers ... IBM 7044 computer the dense substance formed in nature by the reezing of liquid water, by the condensation of water vapor directly into ice crystals, or by the recrystallization or compaction of fallen snow. It is colorless to pale blue or greenish blue, usually ... IBM 370 computer IBM 7070 computer IBM 650 computer GS data processing equipment GS data processing equipment . computers . computers . . digital computers white from included gas bubbles. At standard . . digital computers IBM 7070 computer atmospheric pressure, it is formed at and has a . IBM 650 computer . . IBM computers melting point of 0 deg. C; in freezing it expands ... IBM 7070 computer IBM computers about one eleventh in volume. Ice commonly . . . IBM 650 computer occurs as hexagonal crystals, and in large IBM 7074 computer masses is classed as a rock. The term is often IBM 704 computer GS data processing equipment substituted for glacier; as in "continental ice. . computers GS data processing equipment . . digital computers . computers . bay ice IBM 7074 computer . . digital computers . glaciers . IBM 704 computer .. IBM computers . lake ice ... IBM 7074 computer IBM computers .. ice floes ... IBM 704 computer . land ice IBM 7090 computer . sea ice IBM 709 computer GS data processing equipment .. ice floes computers GS data processing equipment . . icebergs . computers . . digital computers . pressure ice IBM 7090 computer . . digital computers aufeis (ice) IBM 709 computer . . IBM computers cirques (landforms) ... IBM 7090 computer .. IBM computers frost . . . IBM 709 computer ice clouds IBM 7094 computer polar caps IBM 1130 computer GS data processing equipment refrigerants . computers GS data processing equipment runway conditions . . digital computers . computers slush . . digital computers ... IBM 7094 computer storms (meteorology) IBM 1130 computer .. IBM computers water ... IBM 7094 computer IBM computers . . . IBM 1130 computer ice clearings **IBM** computers (added July 2001) IBM 1401 computer data processing equipment USE polynyas GS data processing equipment . computers . computers .. IBM computers ... IBM 360 computer . . digital computers ice clouds . IBM 1401 computer IBM 370 computer (added March 1989) IBM computers ... IBM 650 computer GS clouds (meteorology)

IBM 704 computer

IBM 1130 computer

... IBM 709 computer

... IBM 1401 computer

... IBM 1401 computer

GS data processing equipment

IBM 1410 computer

ice clouds

∞ clouds

ice

cloud glaciation

	stratosphere		polar meteorology		icosahedrons
			space surveillance (spaceborne)	ICD MC	(an a atra matru)
UF	ironments Antarctic environment		surveillance		S (spectrometry) ed March 2001)
Oi	Arctic environments			,	inductively coupled plasma mass
GS	environments	ice she	lves	002	spectrometry
ao	. ice environments	USE	land ice		opeon omen y
RT	Earth cryosphere			icy sate	ellites
	environment effects	Ice. Clo	oud and Land Elevation Satellite	GS	celestial bodies
	marine environments		ed December 2002)		. natural satellites
	planetary cryospheres		Earth Observing System satellite and		icy satellites
	sea ice		designed to measure Earth's ice sheet		Ariel
		mass b	alance, cloud and aerosol heights, as		Callisto
ice floe			land topography and vegetation charac-		Dione
	Large fragments or extensive sheets of	teristics			Enceladus
GS	ached and floating freely in open water. ice		ICESat		Europa Ganymede
ao	. lake ice	GS	artificial satellites		Hyperion
	. ice floes		. scientific satellites		lapetus
	. sea ice		Ice, Cloud and Land Elevation Satellite		Mimas
	ice floes	RT	Earth Observing System (EOS)		Rhea (astronomy)
RT	oceanography		laser altimeters		Tethys
			satellite altimetry		Titania
ice forn	nation		catomic attition,	RT	extraterrestrial water
UF	icing				Galilean satellites
GS	ice formation	iceberg			Jupiter satellites
	. aircraft icing		Large, massive pieces of floating or		satellite surfaces
БТ	. cloud glaciation		d glacier ice of any shape, detached from the front of glaciers into a body of		Saturn satellites
RT	bay ice			lala aak	
	fouling		cebergs extend more than 5 m above rel and have the greater part of their	Ida asto	
	freezing		(4/5 to 8/9) below sea level. They may		ed December 1995) celestial bodies
	graupel hail		length of more than 80 km.	ds	. asteroids
	lake ice		ice		Ida asteroid
	low temperature	0.0	. sea ice	RT	
	pressure ice		. icebergs		Galileo spacecraft
	sea ice		resources		meteoroids
	snow		. Earth resources		
			icebergs	Idaho	
ice map	pping	RT	ice reporting	GS	nations
GS	mapping		land ice		. United States
	ice mapping				Idaho
RT	aerial photography	Iceland	1	RT	Columbia River Basin (ID-OR-WA)
	bay ice	GS	landforms		Yellowstone National Park
	Earth resources		. islands		(ID-MT-WY)
	hydrography		Iceland	ideal flo	uido
	hydrology		nations	RT	compressible fluids
	infrared photography		. Iceland	пі	equations of state
	oceanography photogeology	RT	Europe	c	ofluids
	photography		Icelandic space program	_	incompressible fluids
	photomapping				Mollier diagram
	sea ice	Iceland	lic space program		oor diagram
	space surveillance (spaceborne)		led August 1990)	ideal ga	as
	surveillance	GS	programs	DEF	A gas which conforms to Boyle's law
		-	. space programs	and has	s zero heat of free expansion (or als
ice nuc	lei		European space programs		Charles' law). Used for perfect gas.
RT	Aitken nuclei		Icelandic space program		perfect gas
	cloud glaciation	RT	Iceland	GS	gases
	condensation nuclei				ideal gas
	freezing	ICESat		RT	Bose-Einstein condensates
	graupel		ed December 2002)		Dalton law
	hydrometeors		Ice, Cloud and Land Elevation		equations of state
	nucleation	002	Satellite		gas density
۰	o nuclei		<del></del>		kinetic theory kinetics
ice obse	envetion				real gases
	ice reporting	ichthyc	0,		real gases
002	loo reperting	RT	fishes	identify	friend or foe
ice paci	ks		schools (fish)		IFF systems (identification)
	sea ice			002	ii i oyotomo (iuonimounon)
		icing		identify	ring
ice pre	vention	UŠE	ice formation	GS Î	identifying
ĠS	prevention				. crop identification
	ice prevention	ICI cor	nputers		. IFF systems (identification)
RT	aircraft icing		Family of British digital computers pro-		. parameter identification
	antiicing additives		by International Computers, Ltd. Used for		. rapid ballistics identification
	defrosting		ional Computers Limited.		. system identification
	deicers		International Computers Limited		. timber identification
	deicing	GS	data processing equipment	RT	•
	heat tapes		. computers		coding
	heating		digital computers		cognition
	melting		ICL computers		detection
	storm suppression	RT	European Space Agency		gas detectors
ioc re-	ortina				inspection
ice repo	ice observation	icosah	edrons		marking
RT	bay ice	GS	geometry	c	missile detection
111	icebergs	GG	. Euclidean geometry		particulate sampling
	meteorological flight		polyhedrons		perception
					F 30P.10.1

	recognition		tourmaline		rectifiers
	spectral signatures	tana tana kanal	4-		. ignitrons
	tracking (position)	ignimbri		IGOSS	
	ultrasonic flaw detection	USE	igneous rocks		interreted alabal assess station
	Wiswesser notations	igniters		USE	integrated global ocean station systems
			Devices used to begin combustion,		Systems
identitie	es		a spark plug in a combustion chamber	IGY (ae	ophysical year)
RT	congruences		engine, or a squib used to ignite the fuel		International Geophysical Year
	equations	in a rocl		002	
	·	GS	igniters	IHD (hy	drological decade)
			. initiators (explosives)		International Hydrological Decade
	ata exchange)		boosters (explosives)		
USE	interservice data exchange		caps (explosives)	IIR filter	-
	program		detonators		ed December 2002)
			exploding wires		Digital filters that use previous output
idlers			primers (explosives)		n the calculation of current output val-
RT	bearings		. squibs		viding an impulse response that is theo-
111	gears	RT	ammunition	retically	
	pulleys		electric ignition	UF	infinite impulse response filters
	rollers		explosive devices	00	recursive filters
	vehicular tracks		ignition	GS	electromagnetic wave filters
			ignition systems		. electric filters
			incendiary ammunition		digital filters
IFF sys	tems (identification)		pyrophoric materials	RT	adaptive filters
UF	identify friend or foe		solid propellant ignition	n i	•
GS	identifying		spark plugs		autoregressive moving average FIR filters
	. IFF systems (identification)	ignition			recursive functions
RT	aircraft detection	DEF	The initiation of combustion. Used for		recursive functions
	cognition	reignitio		IL-14 ai	rcraft
	interrogation		reignition		Ilvushin IL-14 aircraft
	recognition	GS	ignition		Ilyushin aircraft
~	systems	ao	. electric ignition		. IL-14 aircraft
			. solid propellant ignition		monoplanes
IED (rul	00)		. spark ignition		. IL-14 aircraft
IFR (rule	es) instrument flight rules	RT	combustion		transport aircraft
USL	instrument night rules		combustion physics		IL-14 aircraft
			firing (igniting)	RT ∝	∘ aircraft
IGFET			flame propagation		
USE	field effect transistors		flammability	IL-62 ai	rcraft
			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		propellant combustion		Ilyushin aircraft
	The term is also applied to processes		roasting		. IL-62 aircraft
	to, related to, or resulting from the		sparks		jet aircraft
	n of such rocks. Igneous rocks consti-		spontaneous combustion		. turbofan aircraft
	e of the three main classes into which		starting		. IL-62 aircraft
	e divided, the others being metamorphic		P No.		monoplanes
UF	nd sedimentary rocks.  ignimbrite	ignition			. IL-62 aircraft
GS	rocks	RT			passenger aircraft . IL-62 aircraft
us	. igneous rocks		flame retardants	RT ~	∘ aircraft
	. anorthosite		flammability fuel-air ratio	111 %	anoran
	basalt			IL-76 ai	rcraft
	diorite	~	gas mixtures ∍limits		ed September 1994)
	dunite	~	o in thits		Ilvushin aircraft
	eclogite	ianition	systems		. IL-76 aircraft
	felsite	RT	-		jet aircraft
	gabbro		distributors		. IL-76 aircraft
	granite		dwell		passenger aircraft
	obsidian		electric coils		. IL-76 aircraft
	moldavite		electric ignition		transport aircraft
	peridotite		engines		. IL-76 aircraft
	pumice		igniters	RT ∝	∘ aircraft
	rhyolite		internal combustion engines		
	syenite		rocket engines	IL-86 ai	
	trachyte		spark plugs		ed September 1994)
RT	andesite		squibs	GS	Ilyushin aircraft
	batholiths		starters		. IL-86 aircraft
	breccia	00	systems		jet aircraft
	effusives				. IL-86 aircraft
	enstatite	-	temperature		passenger aircraft
	feldspars	GS	temperature		. IL-86 aircraft
	ilmenite lava		. ignition temperature flash point		transport aircraft . IL-86 aircraft
	magma	RT	combustion temperature	<b>Ω</b> Τ	. IL-66 aircrait ∍ aircraft
	mica	HI	flammability	rı ∝	- anorum
	minerals		propellant sensitivity	IL-96 ai	rcraft
	olivine		pyrophoric materials		ed September 1994)
	petrogenesis		solid propellant ignition		Ilyushin aircraft
	pyroxenes		spontaneous combustion	30	. IL-96 aircraft
	quartz		thermites		jet aircraft
	regolith				. IL-96 aircraft
	rock intrusions	ignitron	ıs		passenger aircraft
	sedimentary rocks	GS	electron tubes		. IL-96 aircraft
	soils	-	. 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 differential equations Fredholm equations ill-conditioned problems (mathematics) integral equations iterative solution numerical analysis numerical stability problem solving

#### illuminance

uniqueness

(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

RT brightness 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

photometry projection projectors pyrotechnics

shadows

**luminance** 

#### ∞ 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

RT 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 GS

correlators

#### image correlators

RT

holography image classification imaging techniques map matching guidance optical correlators pattern registration speckle holography video landmark acquisition and

#### image dissector tubes

electron tubes

. camera tubes

tracking

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

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 reproduct

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.

resolution GS

#### image resolution anisoplanatism

electro-optical photography geometric accuracy

high definition television image analysis imagery matching multispectral photography pattern registration spatial resolution

DEF Mechanized or digital rotation of an image.

ĞS 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 magneto-sphere 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
. scientific satellites
. Explorer satellites

. . Explorer satellites . . . IMAGE satellite

auroral zones Earth magnetosphere

magnetic storms magnetopause plasmasphere space plasmas

# image transducers

GS transducers

image transducers

RT camera tubes imaging techniques Lallemand cameras

# 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 color photography		representations spatial filtering	c	∞ matrices
	electron photography		vision	imbedo	lings (mathematics)
	electro-optical photography		10.0.1	GS	
	fractography	imaging	g radar		. topology
	frame photography	GS	radar		imbeddings (mathematics)
	high speed photography		imaging radar	рт	invariant imbeddings
	holography	DT	Shuttle Imaging Radar	RIG	∞ imbeddings strange attractors
	acoustical holography microwave holography	RT	radar imagery remote sensors		Stratige attractors
	speckle holography		side-looking radar	IMBLM	S
	white light holography		synthetic aperture radar	SN	(INTEGRATED MEDICAL AND
	infrared imagery		cyminette apentare rada.		BEHAVIORAL LABORATORY 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 radar photography		imaging techniques		medical equipment
	orthophotography		remote sensing spectral reflectance	IMCC (	control center)
	. photomicrography		spectrophotometry		integrated mission control center
	. rocket-borne photography		spectrophotometry		<b>3</b>
	shadowgraph photography	imaging	g techniques	IME sa	tellite
	Schlieren photography	GS	imaging techniques	USE	International Magnetospheric
	spaceborne photography		. acoustic imaging		Explorer
	satellite-borne photography		acoustical holography	imidazo	alaa
	spectrophotography		. raster scanning		led August 2004)
	stereoscopy		. scene generation		Part of a group of heterocyclic com-
	stereophotography streak photography	БТ	. speckle holography		with a 5-membered diunsaturated ring,
	ultraviolet photography	RT	acoustic microscopes acoustical holography		ing 2 nitrogen atoms.
	ultraviolet photometry		adaptive optics	GS	organic compounds
	. underwater photography		apodization		. cyclic compounds
	urography		charge injection devices		heterocyclic compounds
	. radar imagery		crop identification		imidazoles
	. radiography		flat panel displays	imides	
	angiography		gray scale	GS	nitrogen compounds
	autoradiography		high definition television	0.0	. imides
	neutron radiography tomography		hologrammetry		bismaleimide
	computer aided tomography		image classification		phthalimides
	. urography		image correlators image enhancement		succinimides
	reproduction (copying)		image filters	RT	amides
	xerography		image intensifiers	imines	
	. satellite imagery		image motion compensation	UF	Schiff bases
	. spectroheliographs		image processing	GS	nitrogen compounds
	. ultraviolet imagery		image reconstruction		. imines
	. x ray imagery		image rotation	RT	amines
RT	ultraviolet photography acousto-optics		image transducers		
	appearance		image velocity sensors	IMLSS	(NITEODATED MANIEUN/EDINO AND LIFE
	Atmospheric & Oceanographic Inform		imaging spectrometers magnetic force microscopy	SN	(INTEGRATED MANEUVERING AND LIFE SUPPORT SYSTEM)
	Sys	۰	∞ methodology	UF	Integrated Maneuvering Life Support
	change detection		microwave holography		Sys
	contour sensors		modulation transfer function	GS	•
	display devices		multimedia		. IMLSS
	Earth resources		multisensor applications		support systems
	geographic information systems geometric rectification (imagery)		multisensor fusion		. life support systems portable life support systems
	graphic arts		multispectral band scanners		IMLSS
	ground truth		multispectral photography multispectral radar	RT	astronaut maneuvering equipment
	holographic optical elements		optical relay systems		extravehicular activity
	image processing		optical transfer function		extravehicular mobility units
	image resolution	۰	∘ optics	c	∞ systems
	microwave sounding		particle image velocimetry		
	multispectral radar		pattern registration	immers	
	radar signatures		photography	USE	submerging
	scene analysis sea truth		pixels	immisci	ibilitv
	signature analysis		principal components analysis		solubility
	oignaturo analyoio		radar imagery rapid ballistics identification		·
			resolution cell	immitta	
images			satellite imagery	USE	electrical impedance
UF GS	optical images		scene analysis		ilization
us	images . afterimages		spatial resolution	GS	ilization immobilization
	retinal images		streak photography	GS	. hindlimb suspension
RT	contour sensors		synthetic apertures	RT	damage
	display devices		television systems	111	impairment
	evaporography		ultrasonic scanners	c	∞ motion
	halos		vegetative index		
	helmet mounted displays		x ray imagery		e systems
	illusions	∞ imbedo	lings	GS	•
	image enhancement	SN	(USE OF A MORE SPECIFIC TERM IS		. immune systems
	image velocity sensors optics	0.1	RECOMMENDEDCONSULT THE TERMS		lymphatic system spleen
00	perception	RT	LISTED BELOW) encapsulating		thymus gland
	porooption	пі	onoupoulating		mymus gianu

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 RT deceleration 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 HE impact deceleration impact resistance biochemistry GS rates (per time) impact sensitivity immune systems . acceleration (physics) sensitivity 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 impact deceleration Interplanetary Monitoring Platform ∞ 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 drop tests . contact loads . 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		insertion
	tolerances (mechanics)		transmission lines	implan	ted electrodes (biology)
do	. impact tolerances		waveguide tuners		bioengineering
RT	impact damage		waveguide windows	ao	. bioinstrumentation
111	impact damage	imneda	ance measurement		implanted electrodes (biology)
impact	velocity	RT	electrical impedance		electrodes
	ed April 1997)		electrical measurement		. implanted electrodes (biology)
	velocity		mechanical impedance	BT :	⇒ biology
	. impact velocity		mismatch (electrical)		biology
RT	collisions		radio frequency impedance probes	implica	ation
	hypervelocity impact		radio frequency impedance probes	RT	inference
	impact acceleration	impeda	ance probes		
	impact loads		measuring instruments	implos	ions
	terminal ballistics		. impedance probes	ĎEF	The rapid inward collapsing of the
	terminal velocity		radio frequency impedance probes		vacuum systems or devices as the result
	,	RT	resonance probes	of failu	re of the walls to sustain the ambient
impacto	ors			pressur	re.
RT	crushers	impelle	r blades		bursts
	grinding mills	ÚSE	rotor blades (turbomachinery)		explosions
	hammers		`		explosive decompression
	impact tests	impelle	ers		propellant explosions
	·	DEF	Devices that impart motion to a fluid;		shock waves
impairn	nent	specific	ally in centrifugal compressors, rotary		
RT	damage	disks w	hich, faced on one or both sides with	impreg	nating
	immobilization	radial v	anes, accelerate the incoming fluid out-	RT	chemical attack
	injuries	ward in	to diffusers.		coatings
	losses	GS	rotating bodies		finishes
			. rotors		insertion
IMPATT			impellers		lubrication
USE	avalanche diodes		pump impellers		permeating
		RT	blowers		porosity
IMP-B			centrifugal compressors		preserving
USE	Explorer 21 satellite		centrifugal pumps		self lubricating materials
			compressor rotors		self lubrication
IMP-C			pumps		
USE	Explorer 28 satellite		rotor blades (turbomachinery)	improp	erly-posed problems (mathematics)
			stators	ÚSÉ	ill-posed problems (mathematics)
IMP-D			turbine wheels		
USE	Explorer 33 satellite		turbines	Improv	ed TIROS Operational Satellites
W4D E			turbomachine blades	USE	ITOS satellites
IMP-E	Franks and OF and Alika		vanes		
USE	Explorer 35 satellite			improv	rement
impodo	naa	imperfe	ections	RT	correction
impeda			defects		public relations
	The total opposition that a circuit pre-				upgrading
	the flow of an alternating current, spe-	Imperia	al Valley (CA)		
	the complex quotient of voltage divided		valleys		e generators
	ent. Used for dummy loads.		. Imperial Valley (CA)	DEF	Standard reference sources of broad-
UF	dummy loads	RT	California	band in	npulse energy.
GS	impedance		deserts	RT -	∞ generators
	. acoustic impedance		Mexico		impulses
	. electrical impedance				pulse generators
	electrical resistance	IMP-F			turbines
	contact resistance	USE	Explorer 34 satellite		
	Hall resistance			impuls	
	skin resistance	11.40			The products of the forces and the
	and the second s	IMP-G			
	transconductance	USE	Explorer 41 satellite	times d	uring which the forces are applied.
	reactance	USE	Explorer 41 satellite	times d	uring which the forces are applied. impulses
	reactance . mechanical impedance	USE IMP-H	Explorer 41 satellite	times d	uring which the forces are applied. impulses high impulse
	reactance . mechanical impedance . respiratory impedance	USE	Explorer 41 satellite Explorer 47 satellite	times d	uring which the forces are applied. impulses
RT	reactance . mechanical impedance . respiratory impedance attenuation coefficients	USE IMP-H USE	·	times d	uring which the forces are applied. impulses high impulse
RT	. reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth	USE IMP-H USE IMP-I	Explorer 47 satellite	times d	uring which the forces are applied. impulses high impulse specific impulse
	. reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions)	USE IMP-H USE	·	times d GS RT	uring which the forces are applied. impulses high impulse specific impulse total impulse impulse generators
	reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) conductivity	USE IMP-H USE IMP-I USE	Explorer 47 satellite Explorer 43 satellite	times d GS RT impurit	uring which the forces are applied. impulses high impulse specific impulse total impulse impulse generators
	. reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) conductivity constrictions	USE IMP-H USE IMP-I USE imping	Explorer 47 satellite  Explorer 43 satellite ement	times d GS RT	uring which the forces are applied. impulses . high impulse . specific impulse . total impulse impulse generators ties contaminants
	reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) conductivity constrictions damping	USE IMP-H USE IMP-I USE imping DEF	Explorer 47 satellite  Explorer 43 satellite  ement  A process resulting in a continuing	times d GS RT impurit	uring which the forces are applied. impulses . high impulse . specific impulse . total impulse impulse generators ties contaminants crystal defects
	. reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) conductivity constrictions damping diffusivity	USE IMP-H USE IMP-I USE imping DEF success	Explorer 47 satellite  Explorer 43 satellite  ement  A process resulting in a continuing sion of impacts between (liquid or solid)	times d GS RT impurit	uring which the forces are applied. impulses . high impulse . specific impulse . total impulse impulse generators  ties contaminants crystal defects dirt
	reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) conductivity constrictions damping diffusivity dynamic characteristics	USE IMP-H USE IMP-I USE imping DEF success particle	Explorer 47 satellite  Explorer 43 satellite  ement  A process resulting in a continuing sion of impacts between (liquid or solid) is and a solid phase.	times d GS RT impurit	uring which the forces are applied. impulses . high impulse . specific impulse . total impulse impulse generators  ties contaminants crystal defects dirt heterogeneity
	reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) conductivity constrictions damping diffusivity dynamic characteristics dynamic response	USE IMP-H USE IMP-I USE imping DEF success particle	Explorer 47 satellite  Explorer 43 satellite  ement A process resulting in a continuing sion of impacts between (liquid or solid) s and a solid phase. impingement	times d GS RT impurit	uring which the forces are applied. impulses . high impulse . specific impulse . total impulse impulse generators ties contaminants crystal defects dirt heterogeneity inclusions
	reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) conductivity constrictions damping diffusivity dynamic characteristics dynamic response electric coils	USE IMP-H USE IMP-I USE imping DEF success particle GS	Explorer 47 satellite  Explorer 43 satellite  ement  A process resulting in a continuing sion of impacts between (liquid or solid) s and a solid phase.  impingement . jet impingement	times d GS RT impurit	uring which the forces are applied. impulses . high impulse . specific impulse . total impulse impulse generators ties contaminants crystal defects dirt heterogeneity inclusions point defects
۰	. reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) conductivity constrictions damping diffusivity dynamic characteristics dynamic response electric coils electrical properties	USE IMP-H USE IMP-I USE imping DEF success particle	Explorer 47 satellite  Explorer 43 satellite  ement  A process resulting in a continuing sion of impacts between (liquid or solid) s and a solid phase.  impingement . jet impingement ablation	times d GS RT impurit	uring which the forces are applied. impulses . high impulse . specific impulse . total impulse impulse generators ties contaminants crystal defects dirt heterogeneity inclusions point defects pseudopotentials
۰	. reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) conductivity constrictions damping diffusivity dynamic characteristics dynamic response electric coils electrical properties hydraulics	USE IMP-H USE IMP-I USE imping DEF success particle GS	Explorer 47 satellite  Explorer 43 satellite  ement  A process resulting in a continuing sion of impacts between (liquid or solid) s and a solid phase.  impingement . jet impingement ablation attenuation	times d GS RT impurit	uring which the forces are applied.  impulses . high impulse . specific impulse . total impulse impulse generators  ties contaminants crystal defects dirt heterogeneity inclusions point defects pseudopotentials quality
۰	reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) conductivity constrictions damping diffusivity dynamic characteristics dynamic response electric coils electrical properties mechanical properties	USE IMP-H USE IMP-I USE imping DEF success particle GS	Explorer 47 satellite  Explorer 43 satellite  ement  A process resulting in a continuing sion of impacts between (liquid or solid) is and a solid phase.  impingement  jet impingement ablation attenuation cavitation flow	times d GS RT impurit	uring which the forces are applied.  impulses . high impulse . specific impulse . total impulse impulse generators  ties contaminants crystal defects dirt heterogeneity inclusions point defects pseudopotentials quality trace contaminants
	reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) conductivity constrictions damping diffusivity dynamic characteristics dynamic response electrical properties hydraulics mechanical properties physical properties	USE IMP-H USE IMP-I USE imping DEF success particle GS	Explorer 47 satellite  Explorer 43 satellite  ement  A process resulting in a continuing sion of impacts between (liquid or solid) s and a solid phase.  impingement . jet impingement ablation attenuation cavitation flow corrosion	times d GS RT impurit	uring which the forces are applied. impulses . high impulse . specific impulse . total impulse impulse generators ties contaminants crystal defects dirt heterogeneity inclusions point defects pseudopotentials quality trace contaminants ultrapure metals
	. reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) conductivity constrictions damping diffusivity dynamic characteristics dynamic response electric coils electrical properties hydraulics mechanical properties physical properties resistance	USE IMP-H USE IMP-I USE imping DEF success particle GS	Explorer 47 satellite  Explorer 43 satellite  ement  A process resulting in a continuing sion of impacts between (liquid or solid) s and a solid phase. impingement  . jet impingement ablation attenuation cavitation flow corrosion erosion	times d GS RT impurit	uring which the forces are applied.  impulses . high impulse . specific impulse . total impulse impulse generators  ties contaminants crystal defects dirt heterogeneity inclusions point defects pseudopotentials quality trace contaminants
	. reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) conductivity constrictions damping diffusivity dynamic characteristics dynamic response electric coils electrical properties hydraulics mechanical properties physical properties physical properties resistance resonant frequencies	USE IMP-H USE IMP-I USE imping DEF success particle GS	Explorer 47 satellite  Explorer 43 satellite  ement  A process resulting in a continuing sion of impacts between (liquid or solid) s and a solid phase.  impingement . jet impingement ablation attenuation cavitation flow corrosion erosion gas-solid interactions	times d GS RT impurit RT	uring which the forces are applied. impulses . high impulse . specific impulse . total impulse impulse generators ties contaminants crystal defects dirt heterogeneity inclusions point defects pseudopotentials quality trace contaminants ultrapure metals
	. reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) conductivity constrictions damping diffusivity dynamic characteristics dynamic response electric coils electrical properties hydraulics mechanical properties physical properties resistance resonant frequencies Smith chart	USE IMP-H USE IMP-I USE imping DEF success particle GS	Explorer 47 satellite  Explorer 43 satellite  ement  A process resulting in a continuing sion of impacts between (liquid or solid) s and a solid phase.  impingement  . jet impingement ablation attenuation cavitation flow corrosion erosion gas-solid interactions impact	times d GS RT impurit RT	uring which the forces are applied.  impulses . high impulse . specific impulse . total impulse impulse generators  ties contaminants crystal defects dirt heterogeneity inclusions point defects pseudopotentials quality trace contaminants ultrapure metals wastes
	. reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) conductivity constrictions damping diffusivity dynamic characteristics dynamic response electric coils electrical properties hydraulics mechanical properties physical properties resistance resonant frequencies Smith chart time constant	USE IMP-H USE IMP-I USE imping DEF success particle GS	Explorer 47 satellite  Explorer 43 satellite  ement  A process resulting in a continuing sion of impacts between (liquid or solid) s and a solid phase.  impingement  . jet impingement ablation attenuation cavitation flow corrosion erosion gas-solid interactions impact incidence	times d GS RT impurit RT	uring which the forces are applied. impulses . high impulse . specific impulse . total impulse impulse generators ties contaminants crystal defects dirt heterogeneity inclusions point defects pseudopotentials quality trace contaminants ultrapure metals wastes  International Magnetospheric
	. reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) conductivity constrictions damping diffusivity dynamic characteristics dynamic response electric coils electrical properties hydraulics mechanical properties physical properties resistance resonant frequencies Smith chart	USE IMP-H USE IMP-I USE imping DEF success particle GS	Explorer 47 satellite  Explorer 43 satellite  ement  A process resulting in a continuing sion of impacts between (liquid or solid) s and a solid phase.  impingement  . jet impingement ablation attenuation cavitation flow corrosion erosion gas-solid interactions impact incidence reflection	times d GS RT impurit RT	uring which the forces are applied.  impulses . high impulse . specific impulse . total impulse impulse generators  ties contaminants crystal defects dirt heterogeneity inclusions point defects pseudopotentials quality trace contaminants ultrapure metals wastes
0	. reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) conductivity constrictions damping diffusivity dynamic characteristics dynamic response electric coils electrical properties hydraulics mechanical properties physical properties resistance resonant frequencies Smith chart time constant transient response	USE IMP-H USE IMP-I USE imping DEF success particle GS	Explorer 47 satellite  Explorer 43 satellite  ement  A process resulting in a continuing sion of impacts between (liquid or solid) s and a solid phase.  impingement  . jet impingement ablation attenuation cavitation flow corrosion erosion gas-solid interactions impact incidence	imes d GS RT impurit RT	uring which the forces are applied. impulses . high impulse . specific impulse . total impulse impulse generators ties contaminants crystal defects dirt heterogeneity inclusions point defects pseudopotentials quality trace contaminants ultrapure metals wastes  International Magnetospheric Study
impeda	. reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) conductivity constrictions damping diffusivity dynamic characteristics dynamic response electric coils electrical properties hydraulics mechanical properties physical properties physical properties resonant frequencies Smith chart time constant transient response	USE IMP-H USE IMP-I USE imping DEF success particle GS RT	Explorer 47 satellite  Explorer 43 satellite  ement  A process resulting in a continuing sion of impacts between (liquid or solid) s and a solid phase.  impingement  . jet impingement ablation attenuation cavitation flow corrosion erosion gas-solid interactions impact incidence reflection	IMS USE in situ	uring which the forces are applied.  impulses . high impulse . specific impulse . total impulse impulse generators  ties contaminants crystal defects dirt heterogeneity inclusions point defects pseudopotentials quality trace contaminants ultrapure metals wastes  International Magnetospheric Study measurement
0	. reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) conductivity constrictions damping diffusivity dynamic characteristics dynamic response electric coils electrical properties hydraulics mechanical properties resistance resonant frequencies Smith chart time constant transient response	USE IMP-H USE IMP-I USE imping DEF success particle GS RT	Explorer 47 satellite  Explorer 43 satellite  ement  A process resulting in a continuing sion of impacts between (liquid or solid) s and a solid phase.  impingement  . jet impingement ablation attenuation cavitation flow corrosion erosion gas-solid interactions impact incidence reflection scattering	IMS USE	uring which the forces are applied.  impulses . high impulse . specific impulse . total impulse impulse generators  ties contaminants crystal defects dirt heterogeneity inclusions point defects pseudopotentials quality trace contaminants ultrapure metals wastes  International Magnetospheric Study  measurement led September 1992)
impeda	. reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) conductivity constrictions damping diffusivity dynamic characteristics dynamic response electric coils electrical properties hydraulics mechanical properties physical properties resistance resonant frequencies Smith chart time constant transient response	USE IMP-H USE IMP-I USE imping DEF success particle GS RT	Explorer 47 satellite  Explorer 43 satellite  ement  A process resulting in a continuing sion of impacts between (liquid or solid) s and a solid phase.  impingement  . jet impingement ablation attenuation cavitation flow corrosion erosion gas-solid interactions impact incidence reflection	IMS USE  in situ (ada DEF	uring which the forces are applied. impulses . high impulse . specific impulse . total impulse impulse generators  ties contaminants crystal defects dirt heterogeneity inclusions point defects pseudopotentials quality trace contaminants ultrapure metals wastes  International Magnetospheric Study  measurement led September 1992) In situ is Latin for 'in original place". It
impeda	. reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) conductivity constrictions damping diffusivity dynamic characteristics dynamic response electric coils electrical properties hydraulics mechanical properties physical properties resistance resonant frequencies Smith chart time constant transient response ince matching antenna couplers coupliers coupling circuits	USE IMP-H USE IMP-I USE imping DEF success particle GS RT	Explorer 47 satellite  Explorer 43 satellite  ement  A process resulting in a continuing sion of impacts between (liquid or solid) s and a solid phase.  impingement  . jet impingement ablation attenuation cavitation flow corrosion erosion gas-solid interactions impact incidence reflection scattering  Explorer 50 satellite	IMS USE  in situ (ada DEF refers	uring which the forces are applied.  impulses . high impulse . specific impulse . total impulse impulse generators  ties contaminants crystal defects dirt heterogeneity inclusions point defects pseudopotentials quality trace contaminants ultrapure metals wastes  International Magnetospheric Study  measurement led September 1992) In situ is Latin for 'in original place". It to measurements made at the actual
impeda	. reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) conductivity constrictions damping diffusivity dynamic characteristics dynamic response electric coils electrical properties hydraulics mechanical properties physical properties resistance resonant frequencies Smith chart time constant transient response ince matching antenna couplers coupling circuits directional couplers	USE IMP-H USE IMP-I USE imping DEF success particle GS RT	Explorer 47 satellite  Explorer 43 satellite  ement  A process resulting in a continuing sion of impacts between (liquid or solid) s and a solid phase.  impingement  . jet impingement ablation attenuation cavitation flow corrosion erosion gas-solid interactions impact incidence reflection scattering  Explorer 50 satellite	IMS USE  in situ (ada DEF refers	uring which the forces are applied.  impulses . high impulse . specific impulse . total impulse impulse generators  ties contaminants crystal defects dirt heterogeneity inclusions point defects pseudopotentials quality trace contaminants ultrapure metals wastes  International Magnetospheric Study  measurement led September 1992) In situ is Latin for 'in original place". It to measurements made at the actual of the object or material measured.
impeda	reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) . conductivity constrictions damping diffusivity dynamic characteristics dynamic response electric coils electrical properties . hydraulics mechanical properties . physical properties . physical properties . symbolic properties . symbolic properties . symbolic properties . mechanical properties .	USE IMP-H USE IMP-I USE imping DEF success particle GS RT	Explorer 47 satellite  Explorer 43 satellite  ement  A process resulting in a continuing sion of impacts between (liquid or solid) s and a solid phase.  impingement  . jet impingement ablation attenuation cavitation flow corrosion gas-solid interactions impact incidence reflection scattering  Explorer 50 satellite tation implantation	IMS USE  in situ (ada DEF refers	uring which the forces are applied.  impulses . high impulse . specific impulse . total impulse impulse generators  ties contaminants crystal defects dirt heterogeneity inclusions point defects pseudopotentials quality trace contaminants ultrapure metals wastes  International Magnetospheric Study  measurement led September 1992) In situ is Latin for 'in original place". It to measurements made at the actual of the object or material measured. atmospheric composition
impeda	. reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) conductivity constrictions damping diffusivity dynamic characteristics dynamic response electric coils electrical properties hydraulics mechanical properties physical properties resistance resonant frequencies Smith chart time constant transient response ince matching antenna couplers coupling circuits directional couplers electric networks electrical impedance	USE IMP-H USE IMP-I USE imping DEF success particle GS RT	Explorer 47 satellite  Explorer 43 satellite  ement  A process resulting in a continuing sion of impacts between (liquid or solid) s and a solid phase.  impingement  . jet impingement ablation attenuation cavitation flow corrosion erosion gas-solid interactions impact incidence reflection scattering  Explorer 50 satellite  tation  implantation . heart implantation	IMS USE  in situ (ada DEF refers	uring which the forces are applied.  impulses . high impulse . specific impulse . total impulse impulse generators  ties contaminants crystal defects dirt heterogeneity inclusions point defects pseudopotentials quality trace contaminants ultrapure metals wastes  International Magnetospheric Study  measurement fed September 1992) In situ is Latin for 'in original place". It to measurements made at the actual of the object or material measured. atmospheric composition atmospheric sounding
impeda	reactance . mechanical impedance . respiratory impedance attenuation coefficients bandwidth chokes (restrictions) . conductivity constrictions damping diffusivity dynamic characteristics dynamic response electric coils electrical properties . hydraulics mechanical properties . physical properties . physical properties . symbolic properties . symbolic properties . symbolic properties . mechanical properties .	USE IMP-H USE IMP-I USE imping DEF success particle GS RT	Explorer 47 satellite  Explorer 43 satellite  ement  A process resulting in a continuing sion of impacts between (liquid or solid) s and a solid phase.  impingement  . jet impingement ablation attenuation cavitation flow corrosion erosion gas-solid interactions impact incidence reflection scattering  Explorer 50 satellite  tation  implantation . heart implantation ion implantation	IMS USE  in situ (ada DEF refers	uring which the forces are applied.  impulses . high impulse . specific impulse . total impulse impulse generators  ties contaminants crystal defects dirt heterogeneity inclusions point defects pseudopotentials quality trace contaminants ultrapure metals wastes  International Magnetospheric Study  measurement led September 1992) In situ is Latin for 'in original place". It to measurements made at the actual of the object or material measured. atmospheric composition

∞ measurement exothermic reactions nonsynchronization optical measurement grenades incoherent scatter radar pollution monitoring guns (ordnance) DEF Radar used in the study of the ionoremote sensing igniters sphere, thermosphere, etc. rocket sounding missiles projectiles radar temperature measurement propellants . incoherent scatter radar in situ resource utilization pyrotechnics . EISCAT radar system (Europe) (added August 2001) ∞ rockets incoherent scattering DEF The use of indigenous materials at a radar scattering planetary or other extraterrestrial landing site for incentive techniques incoherent scattering the production of propellants, life support con-RT cost incentives DEF The phenomena of generating waves sumables, or other needed materials. cost reduction with random variations in phase, amplitude, polarization, and direction of propagation when indigenous space materials utilization efficiency ISMU (resource utilization) management an incident wave encounters matter. ISRU (resource utilization) value engineering utilization GS scattering . incoherent scattering . in situ resource utilization incentives consumables (spacecraft) coherent scattering GS incentives extraterrestrial resources EISCAT radar system (Europe) contract incentives electromagnetic radiation fuel production income electromagnetic wave transmission lunar resources management incoherent scatter radar manned Mars missions management methods nuclear scattering materials recovery motivation oxygen production radar scattering personnel planetary bases income incidence RT budgeting in vitro methods and tests DFF Partial coincidence, as a circle and a economics (added May 1999) tangent line. The impingement of a ray on a Tests of, or methods related to, biologiincentives cal or biochemical processes occurring in an artificial environment or outside of a living cell or surface incidence incompatibility grazing incidence corrosion organism angles (geometry) hazards GS in vitro methods and tests impingement ∞ interference polymerase chain reaction solubility RT bioassav incident radiation biotechnology bistatic reflectivity incompressibility conditions RT compressibility corpuscular radiation culture techniques electromagnetic radiation fluid mechanics cultured cells obliqueness cytology incompressible boundary layer optical reflection fertilization boundary layers photon beams histology incompressible boundary layer ∞ radiation ∞ methodology laminar boundary layer reflected waves ∞ tests turbulent boundary layer refracted waves tissue engineering retroreflection incompressible flow scattering in vivo methods and tests fluid flow Stokes law of radiation (added May 1999) . incompressible flow wave incidence control Tests of, or methods related to, biologi-. Stokes flow cal or biochemical processes occurring within a RT aerodynamics incineration living cell or organism. Beltrami flow USE incinerators animal models compressible flow bioassay gas flow biotechnology incinerators Milne-Thomson method incineration conditions Navier-Stokes equation culture techniques RT burners Reynolds stress cytology furnaces stream functions (fluids) waste disposal histology subsonic flow waste energy utilization intravenous procedures ∞ methodology incompressible fluids ∞ tests ∞ inclination incompressible fluids GS (USE OF A MORE SPECIFIC TERM IS SN micropolar fluids RECOMMENDED--CONSULT THE TERMS LISTED BELOW) inactivation Boussinesq approximation USE deactivation channel flow The angle between the plane of an compressible fluids orbit and the reference plane. The equator is the incandescence reference plane for geocentric orbits and the ecliptic is the reference plane for heliocentric fluid power DEF Emission of light due to high tempera-∘ fluids ture of the emitting material. Any other emission ideal fluids orbits. Also the magnetic dip. of light is called luminescence. Navier-Stokes equation geomagnetism ĞS emission Oseen approximation magnetic equator . light emission superfluidity orbits incandescence slopes brightness Inconel (trademark) tendencies color GS alloys emissivity . nickel alloys inclusions illuminators Inconel (trademark) light (visible radiation) GS defects chromium alloys inclusions luminescence iron alloys casting luminosity castings luminous intensity increasing clathrates radiance accumulations RT heterogeneity spectral emission augmentation impurities thermal emission growth metallography magnification veins (petrology) incendiary ammunition promotion voids GS ammunition swelling incendiary ammunition

incoherence

discontinuity

RT

bombs (ordnance)

combustion

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 RT 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 RT efficiency 

# GS ratios

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.

UF automatic indexing

document indexing machine aided indexing GS information analysis

indexing (information science)

RT indexes (documentation) information management information retrieval metadata

terminology thesauri

India GS

RT

nations India Asia Bangladesh

Sikkim

Bhutan Himalayas Indian spacecraft **ISRO** 

Indian Ocean

GS oceans

Indian Ocean

Arabian Sea Indonesia Madagascar Mauritius mid-ocean ridges Seychelles

Indian space program

programs GS

space programs

. . Indian space program

communication satellites RT manned space flight ∞ research projects

satellite design space missions ∞ spacecraft

spacecraft design technology utilization

Indian Space Research Organization

ISRO USE

Indian spacecraft

Aryabhata UF INSAT satellites IRS (Indian spacecraft) SEO (Indian spacecraft) India

∞ spacecraft

Indiana

GS nations

United States

Indiana

Ohio River (US) RT

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.

acids GS

indoleacetic acids

biochemistry

indoles 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)  $RT \, \infty \, induction$ 

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

# inductively coupled plasma mass

spectrometry (added March 2001)

USE intake systems

induction systems

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

. mass spectroscopy

... 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 fishing gross national product USE moments of inertia RT cities inertia principle industrial areas commerce GS inertia construction industry industrial safety . inertia principle
. . Mach inertia principle industrial wastes 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 shipvards reaction wheels site selection technologies technology assessment urban development 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 energy conversion of one or both of the particles and in the sums, 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
. industrial management
.. engineering management GS RT scattering inertialess steerable antennas inelastic scattering inertial forces . . inventory management GS scattering USE inertia . . . inventory controls . inelastic scattering . personnel management coherent scattering inertial fusion (reactor) RT concurrent engineering Compton effect DEF Reactors in which pellet fusion is initiated by high energy sources including lasers. 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 inelastic stress industrial plants nuclear fuels UF factories DFF A force acting on a solid and producing 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 stress analysis the craft. industrial safety stress-strain diagrams guidance (motion)
. inertial guidance GS safety GS industrial safety inequalities . strapdown inertial guidance accidents inequalities GS 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 A gaseous medium that because of its

hydrocarbon poisoning

industries occupation

reactor safety

# industrial wastes

GS wastes

industrial wastes

heavy metals industries landfills liquid wastes soil pollution solid wastes

inertia DEF Resistance to acceleration. Used for inertial forces.

lack of chemical reaction is used to enclose tests

controlled atmospheres

inert atmosphere

inertial forces UF GS inertia

inert gases USE rare gases

or equipment.

ment and integration of acceleration from within

stabilized platforms terminal guidance

inertial measuring units

USE inertial platforms

### inertial navigation

DEF Dead reckoning performed automatically by a device which gives a continuous indication of position by integration of accelerations since leaving a starting point.

navigation

. inertial navigation

. . Astroguide Navigation System

	gimballess inertial navigation		dermatitis		inflatable gliders
RT	acceleration measurement		contact dermatitis		gliders
	air navigation		fungal diseases		. paragliders
	all-weather air navigation		. hepatitis	DT	. inflatable gliders
	celestial navigation dead reckoning		meningitis parasitic diseases	RI •	∞ aircraft
	digital navigation		viral diseases	inflatab	le space structures
	hyperbolic navigation		acquired immunodeficiency	(add	ed August 1996)
	navigation aids		syndrome	GS	inflatable space structures
	polar navigation		influenza		. inflatable spacecraft
	radar navigation radio navigation		poliomyelitis smallpox		Beacon satellites Beacon Explorer A
	Schuler tuning	RT	antiseptics		Explorer 22 satellite
	space navigation		Aspergillus	RT	antennas
	star trackers		biological weapons		folding structures
	strapdown inertial guidance	c	∞ blisters		space erectable structures
	surface navigation		epidemiology	inflatah	le spacecraft
inertial	platforms		immunity leukopenia	GS	expandable structures
UF	inertial measuring units		loukoporna		. inflatable structures
RT	gimballess inertial navigation	inferen			inflatable spacecraft
	gyroscopic stability	RT	assumptions		Beacon satellites
	Kalman-Schmidt filtering		deduction		Beacon Explorer A
	navigation instruments platforms		hypotheses implication		Explorer 22 satellite inflatable space structures
	three axis stabilization		∞ induction		. inflatable spacecraft
					Beacon satellites
	reference systems	infesta			Beacon Explorer A
	celestial reference systems	UF RT	insect damage		Explorer 22 satellite space erectable structures
0	reference systems relativity	NI.	beetles boll weevils		. inflatable spacecraft
0	systems		bollworms		Beacon satellites
	.,		chironomus flies		Beacon Explorer A
	Upper Stage		flatworms		Explorer 22 satellite
	A solid propulsive upper stage de-		insects	RT	artificial satellites
	o place spacecraft on high Earth orbits cape trajectories for planetary missions.		larvae		orbital assembly
UF	interim upper stage (STS)		locusts moths		self erecting devices spacecraft
	IUS		parasites		unmanned spacecraft
GS	interim stages (spacecraft)		plants (botany)		·
	. 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	ao	. inflatable structures
	space shuttles		. chemical vapor infiltration		air bag restraint devices
	space transportation	RT	air conditioning		balloons
	space transportation system		permeability		high altitude balloons
	space tugs Ulysses mission		porosity resin film infusion		jimsphere balloons skyhook balloons
	upper stage rocket engines		voids		superpressure balloons
	appor stage restlet engines		warfare		meteorological balloons
	ess steerable antennas				jimsphere balloons
GS	antennas		impulse response filters		ROBIN balloons
	. directional antennas steerable antennas		ed December 2002) IIR filters		microballoons tethered balloons
	inertialess steerable antennas	OOL	int inters		ballutes
	arrays	infinite	span wings		gas bags
	. antenna arrays	GS	airfoils		inflatable gliders
	steerable antennas		. thin airfoils		inflatable spacecraft
RT	inertialess steerable antennas communication equipment		thin wings infinite span wings		Beacon satellites
п	inertial coordinates		. wings		Beacon Explorer A Explorer 22 satellite
	mornal coordinates		slender wings	RT	airships
infarcti			infinite span wings		boats
GS	diseases		thin wings		buildings
	. heart diseases		infinite span wings unswept wings		flexible bodies
	myocardial infarction		infinite span wings		flexible wings floats
RT	embolisms		planforms		folding structures
	thrombosis		. wing planforms		inflating
	tissues (biology)		infinite span wings		life rafts
infaction	200	RT	flexible wings		lunar shelters
infection USE	infectious diseases	infinity			pneumatic equipment
002	modicus discusse	DEF			pressure suits radomes
infectio	us diseases	surable			self erecting devices
UF	infections	RT	,		space erectable structures
GS	diseases		geometry		space stations
	. infectious diseases airborne infection		number theory probability theory	c	∘ structures
	bacterial diseases		real variables		tires variable geometry structures
	cholera		series (mathematics)		variable geometry structures
	diphtheria		,	inflatin	g
	keratitis		le devices	SN	(EXCLUDES ECONOMIC INFLATION)
	syphilis	USE	inflatable structures	RT	expansion
	tuberculosis typhoid	inflatak	ole gliders		gas injection growth
	typhiod	GS	expandable structures		inflatable structures
	conjunctivitis		. inflatable structures		pressure reduction

inflection points 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. DEF A comprehensive strategy for manag-GS geometry Euclidean geometry
. points (mathematics)
. . inflection points information systems ing an organization's information resources throughout the information life cycle, including . information adaptive system communication equipment creation, collection, use, processing, and dis-∞ systems semination. 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 GS communicating USE in-flight simulation . information dissemination libraries records management . . messages 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 indexes (documentation) bibliographies and control system features CD-ROM inflight simulation information transfer integrated library systems Internet resources libraries command languages GS simulation 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 coefficients management metadata . influence coefficient message processing numerical data bases . 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 GS 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 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

cognition

perception

cognitive psychology

electrophysiology human performance

neurophysiology

networks

∞ svstems

on-line systems

records management

systems management

selective dissemination of information

documentation

news media presentation

privacy

reports

mathematical tables

V	vebsites		infrared sources (astronomy)		. photography
informati	on theory		Infrared Space Observatory (ISO) James Webb Space Telescope	RT	infrared imagery color infrared photography
	Shannon information theory		Kuiper Airborne Observatory	111	lunar equator
RT ∞ a	applications of mathematics		Large Deployable Reflector		thermography
	automata theory		SOFIA (airborne observatory)		x ray imagery
	automation 3CH codes		Space Infrared Telescope Facility	infunca	inonestica
	coding	Infrared	Astronomy Satellite	GS	inspection inspection
	combinatorial analysis		A joint NASA-Netherlands-Great Brit-	ao	. infrared inspection
	communication theory		ecraft designed to perform astronomical	RT	nondestructive tests
	computers		tions in the infrared spectral region. It		quality control
	correction	was lau IRAS.	nched on January 25, 1983. Used for		
	correlation cryptography	UF	IRAS	Intrared GS	instruments measuring instruments
	cybernetics	GS	artificial satellites	do	. radiation measuring instruments
	data processing		. scientific satellites		infrared instruments
	data transmission		astronomical satellites		infrared detectors
	decision theory		Infrared Astronomy Satellite observatories		FLIR detectors
	ergodic process		. astronomical observatories		infrared radiometers
	error detection codes Fisher information		astronomical satellites		Advanced Very High Resolution Radiometer
	Fourier analysis		Infrared Astronomy Satellite		infrared scanners
	game theory	RT	geosynchronous orbits		visible infrared spin scan
	ogic		infrared astronomy		radiometer
	nachine translation		infrared sources (astronomy) IRAS-Araki-Alcock comet		quantum well infrared
	nanagement information systems nathematics		Netherlands space program		photodetectors infrared interferometers
	naximum entropy method		UK satellites		infrared spectrometers
	nessages	infrared	cirrus (astronomy)		filter wheel infrared
	noise		ed September 1989)		spectrometers
	pperations research		clouds		infrared spectrophotometers
	parity		cosmic dust	RT	Advanced Very High Resolution
	Petri nets phase shift keying		galactic radiation		Radiometer forest fire detection
	probability theory		infrared astronomy		lorest life detection
	andom processes		infrared agurage (agtrangmy)	infrared	interferometers
r	edundancy		infrared sources (astronomy) interstellar matter	GS	measuring instruments
	Shannon-Wiener measure		molecular clouds		. interferometers
	statistical analysis	infunuad	l data atawa		infrared interferometers . radiation measuring instruments
	statistics stochastic processes	UF	detectors   signal-processing-in-the-element		infrared instruments
	systems engineering	O1	detectors		infrared interferometers
	elecommunication		SPRITE detectors	RT	astronomical interferometry
	erms	GS	measuring instruments		interferometry
∞ t	heories		. radiation measuring instruments		optical equipment
informati	on transfer		actinometers radiometers		optical measurement optical measuring instruments
	document markup languages		infrared detectors		speckle interferometry
	nformation dissemination		FLIR detectors		,
	nformation flow		infrared radiometers	infrared	
	nformation management		Advanced Very High	UF	infrared masers
	nformation resources management nformation retrieval		Resolution Radiometerinfrared scanners		IR lasers irasers
	nformation systems		visible infrared spin scan	GS	stimulated emission devices
	nternational cooperation		radiometer		. lasers
	nteroperability		quantum well infrared		infrared lasers
	echnology transfer		photodetectors	RT	argon lasers
	echnology utilization Vorld Wide Web		infrared instruments		carbon dioxide lasers
V	vona wide web		infrared detectors FLIR detectors		carbon lasers carbon monoxide lasers
informatio	on transmission		infrared radiometers		chemical lasers
USE o	data transmission		Advanced Very High		dye lasers
			Resolution Radiometer		gas lasers
	absorption		infrared scanners		HF lasers
	The taking up of energy from infrared by a medium through which the radia-		visible infrared spin scan radiometer		liquid lasers organic lasers
tion is pas			quantum well infrared		quantum cascade lasers
	energy absorption		photodetectors		solid state lasers
	radiation absorption	RT	bolometers		waveguide lasers
	. electromagnetic absorption	~	detectors		YLF lasers
	infrared absorption absorption		electromagnetic measurement	infrared	macere
	atmospheric attenuation		focal plane devices forest fire detection	USE	infrared lasers
	atmospheric optics		infrared signatures		
i	nfrared radiation		mercury cadmium tellurides		photography
	ight scattering		x ray detectors	GS	imagery
	optical properties hermal emission	infrared	filters		. photography multispectral photography
	ransmittance	GS	electromagnetic wave filters		infrared photography
	vave attenuation		. optical filters		color infrared photography
			infrared filters	RT	aerial photography
	astronomy	RT	electric filters		astronomical photography
	astronomy infrared astronomy		ultraviolet filters		black and white photography
	astronomy		horizon scanners		cinematography faint object camera
	plazars	USE	horizon scanners		forest fire detection
I I	nfrared Astronomy Satellite		infrared scanners		geographic information systems
	nfrared cirrus (astronomy)		imagery		ice mapping
İI	nfrared photometry	GS	imagery		lunar photography

# 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

RT 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

environmental monitoring

aerial reconnaissance atmospheric correction data acquisition Earth Resources Program

telescopes . spaceborne telescopes

forest fire detection pressure modulator radiometers radiometric correction satellite-borne instruments thermal mapping

# infrared reflection

GS reflection

infrared reflection

optical reflection radiative heat transfer

radio echoes spread reflection ultraviolet reflection

#### infrared scanners

infrared horizon scanners GS measuring instruments

. 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 spectrum

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

. . . Infrared Space Observatory

. . astronomical satellites (ISO)

# ... Infrared Space Observatory

(ISO)

European space programs infrared astronomy spaceborne astronomy

# infrared spectra

GS spectra radiation spectra

. . electromagnetic spectra . . . infrared spectra

 $RT \, \infty \, absorption$ 

emission spectra infrared photometry infrared signatures

line spectra

microwave spectra molecular spectra solar spectra

infrared spectrometers

GS measuring instruments

stellar spectra

. 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 GS

. infrared spectroscopy absorption spectroscopy astronomical spectroscopy chemical analysis electron spectroscopy laser spectrometers molecular spectroscopy molecular structure optogalvanic spectroscopy Raman spectroscopy spectrometers

spectroscopic analysis

vacuum spectroscopy

sulfur hexafluoride

# infrared stars

GS celestial bodies

. infrared sources (astronomy)

... infrared stars

. stars

... infrared stars

RT	Herbig-Haro objects		solidification		nuclear reactions
		ingredi	ents		nuclear reactors
	suppression	RT	admixtures		reactivity reactor physics
	The shielding and/or protection of air- gines and exhausts from heat-seeking		∘ components		reactor physics
	and/or detecting devices.		∘ composition	initial va	alue problems
	afterburning		content	USE	boundary value problems
	aircraft detection		formulations	initialian	ma.
	aircraft engines		mixtures	initialisn	abbreviations
	cooling systems	ingress	(spacecraft passageway)	OOL	abbieviations
	exhaust gases	RT		initiatio	n
	exhaust nozzles heat shielding		doors	RT	activation
	jet engines		egress		actuation detonation
	jet exhaust		hatches		ogeneration
	reaction products		openings		o induction
	suppressors	inhabit	ants		inoculation
	temperature control	GS	communities		nucleation
infrarod	telescopes		. inhabitants	۰	opriming
DEF	Special optical instruments for astro-	RT	mountain inhabitants aborigines		reactor startup tests starting
	observations in the range from one		cities		stimulation
	o one millimeter.		demography		
GS	telescopes		personnel	∞ initiato	
	. infrared telescopes Large Deployable Reflector		residential areas	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS
	Space Infrared Telescope Facility	inhalatio	nn		LISTED BELOW)
RT	astronomy		respiration	RT	catalysts
	Astroplane	002			initiators (explosives) styphnates
	James Webb Space Telescope	∞ inhibiti			Stypiniates
	Next Generation Space Telescope	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	initiato	rs (explosives)
	project		LISTED BELOW)	UF	electroexplosive devices
	l Augustian	RT		GS	explosive devices
	l <b>tracking</b> tracking (position)		corrosion prevention		. initiators (explosives) boosters (explosives)
ao	. infrared tracking		detachment disabilities		caps (explosives)
RT	antimissile missiles		dithers		detonators
	compensatory tracking		frustration		exploding wires
	homing devices		inhibition (psychology)		primers (explosives)
	missile tracking		inhibitors		igniters
	optical tracking pursuit tracking		introversion lethargy		. initiators (explosives) boosters (explosives)
	radiometers		passivity		caps (explosives)
			prevention		detonators
infrared	windows	0	· reduction		exploding wires
DEF	A frequency region in the infrared		stopping		primers (explosives)
	nere is good transmission of electromag-	inhihiti	on (novehology)	RT	fuses (ordnance) o initiators
	diation through the atmosphere.	RT	on (psychology) conditioning (learning)	٥	o initiators pyrotechnics
RT	apertures lasers		oinhibition		styphnates
	optical materials				71
∞	windows	inhibito		injectio	
			Things that inhibit; specifically, sub-	GS	•
	nic frequencies		bonded, taped, or dip dried onto a solid ant to restrict the burning surface and to		. carrier injection . fluid injection
	Frequencies below the audiofrequency		ection to the burning process.		gas injection
range.	fraguencias		inhibitors		liquid injection
GS	frequencies . infrasonic frequencies		. enzyme inhibitors		deep well injection (wastes)
RT	acoustics		. wear inhibitors		water injection
		RT	additives antidotes		. fuel injection
∞ ingestic	on		antifouling		. ion injection . secondary injection
SN	((USE OF A MORE SPECIFIC TERM IS		antiicing additives		. transearth injection
	RECOMMENDEDCONSULT THE TERMS LISTED BELOW.)		antioxidants		. translunar injection
RT	ingestion (biology)		case bonded propellants	RT	Barritt diodes
	ingestion (engines)		catalysts		blowing
			coatings corrosion prevention		boundary layer separation charging
	on (biology)	c	oinhibition	Ö	feeding (supplying)
GS	ingestion (biology)		neutralizers		filling
	. drinking . eating		packaging		fluid flow
	. grazing		passivity		implantation
RT ∝	ingestion		propellant additives		injectors
	swallowing		propellant decomposition propellant storability		input perforating
			retardants		supplying
	on (engines)		silencers		, 5
RT	bird-aircraft collisions		solid propellant ignition		n carburetors
~	engine failure ingestion		solid propellants	USE	carburetors
~			suppressors		fuel injection
ingots		inhomo	geneity	iniectio	n guidance
DEF	Cast metals in forms intended for sub-	UF	nonhomogeneity	GS	guidance (motion)
	fabrication.	RT	defects		. injection guidance
GS	castings		heterogeneity	RT	,
RT	. ingots billets		nonuniformity		celestial navigation
цI	casting	jnhour	equation		command guidance inertial guidance
	molds		∘ 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 noise injuries on pumps, when not otherwise specified, the gallium arsenides 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 spinal cord injuries pressure GS whiplash injuries inlet pressure carrier injection accidents injection lasers pressure gradients laser mode locking ∞ blisters pressure recovery chemical defense stagnation pressure injection molding damage water pressure DEF A forming process in which a heat death diagnosis softened or plasticized material is forced from a inlet temperature cylinder into a relatively cool cavity which gives foreign bodies 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 hazards used for forming solid propellants from quick hemorrhages cure ingredients. temperature impairment forming techniques
. injection molding . inlet temperature GS necrosis air intakes sabotage ceramics veterinary medicine engine inlets fuel systems gas temperature dies wound healing extruding melting intake systems inks molding materials drawings molds graphic arts inlets (devices) plastics USE intake systems 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 . inlets (topography) Great Salt Lake (UT) lakes . . bayous carburetors rivers Cook Inlet (AK) ejectors springs (water) bays (topographic features) Delaware Bay (US) feeders water pollution 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 . inliers (landforms) spray nozzles flow geometry hypersonic inlets erosion Injun 1 satellite inlet flow geological faults GS artificial satellites inlet nozzles geology . Injun satellites petrography nose inlets . . Ínjun 1 satellite side inlets petrology rock intrusions supersonic inlets Injun 3 satellite GS artificial satellites structural properties (geology) inlet flow . Injun satellites 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 Injun Explorer intake systems inner radiation belt

∞ pressure drop

inlet nozzles

RT air intakes

supersonic inlets

vortex generators

environments . inner radiation belt

. charged particles

. . . radiation belts

. . magnetically trapped particles

particles

USE Explorer 25 satellite

artificial satellites

. Injun satellites

. . Explorer 25 satellite

Iniun satellites

	inner radiation belt	RT	organic peroxides		arthropods
	. corpuscular radiation				insects
	radiation belts	inorgar	ic sulfides		bees
	inner radiation belt	GŠ			bollworms
	. trapped particles		. sulfides		chironomus flies
			inorganic sulfides		cockroaches
	magnetically trapped particles		barium sulfides		
	radiation belts				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
	single event apoets		lead sulfides		grasshoppers
inocula	tion		molybdenum sulfides		locusts
UF	seeding (inoculation)		molybdenum disulfides		moths
RT	crystal growth		polysulfides		silkworms
	crystallization		strontium sulfides	RT	entomology
	immunity		zinc sulfides		infestation
			wurtzite		larvae
	initiation		zincblende		pupa
	nucleation		sulfur compounds		ράρα
	vaccines				4.4.
			. sulfides	insensit	
inoculu	ım		inorganic sulfides	USE	sensitivity
GS	serums		barium sulfides		
us			bismuth sulfides	insertic	on
	. inoculum		cadmium sulfides	GS	insertion
	vaccines		calcium sulfides		. orbit insertion
	. inoculum		copper sulfides	RT	collating
RT	antibodies			111	
	antigens		hydrogen sulfide		embedding
			indium sulfides		grafting
	physiological defenses		lead sulfides		implantation
			molybdenum sulfides		impregnating
inorgar	nic chemistry		molybdenum disulfides		inserts
	The study of the composition, proper-		,		network analysis
	ructure, and reactions of the chemical		polysulfides		
			strontium sulfides		transmission loss
	ts and all their compounds with the ex-		zinc sulfides		
	of hydrocarbons and their derivatives.		wurtzite	insertio	on loss
RT	analytical chemistry		zincblende	RT	energy dissipation
c	chemistry				losses
	,	inositol	c		transmission loss
	.!				tranomicolon 1000
	nic coatings	GS	organic compounds	inserts	
GS	coatings		. carbohydrates		
	. inorganic coatings		sugars	GS	inserts
	anodic coatings		inositols		. nozzle inserts
	ceramic coatings			RT	accessories
РΤ		input			bushings
RT	antiradar coatings	RT	accumulations		fasteners
	protective coatings	וח			
			collection		fittings
inorgar	nic compounds		feeding (supplying)		insertion
			filling		linings
GS	inorganic compounds		injection		spacers
	. ammonia	0	oloading		spools
	liquid ammonia	-	output		washers (spacers)
RT	acids		•		washers (spacers)
c	∞ bases		reading	!	
	∞ chemical compounds		replenishment	inshore	
			supplying	USE	beaches
	flame retardants				
	intermetallics	input/o	utput routines	insolati	ion
	molten salts	•	computer programs	DEF	In general, solar radiation received a
c	∞ salts	as			th's surface. The rate at which direct
			. computer systems programs		diation is incident upon a unit horizonta
•	Account the		input/output routines		•
	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		operating systems (computers)	TION).	
рт	LISTED BELOW) ∞ materials		random access	GS	solar energy
nı s		^	o routines		. insolation
	nonflammable materials	0	Toutines	RT	greenhouse effect
	refractory materials	INICAT	4-11:4	111	
	thermochromatic materials		satellites		meteorology
	vitreous materials	USE	Indian spacecraft		photosynthetically active radiation
					solar heating
		insect a	lamage		solar radiation
inorgar	nic nitrates	USE	infestation		sunlight
GS	nitrogen compounds	002			Surface Meteorology and Solar
	. nitrates	inconti	idea		
	. inorganic nitrates	insection			Energy project
	ammonium nitrates	GS	poisons		
			. pesticides	insomn	
	hydrazine nitrate		insecticides	GS	sleep
	potassium nitrates		Carbamates (tradename)		. insomnia
	silver nitrates		urethanes	RT	sleep deprivation
	sodium nitrates			ΠI	σιοσμ ασμιναιιστι
			DDT		•
_			dieldrin	inspect	
inorgar	nic peroxides		phenothiazines	DEF	The process of measuring, examining
UF	superoxides	RT			gaging, or making other determinations
GS	chalcogenides		entomology		spect to materials, products, services
40	. oxides				s, or environments.
			toxicology		
	anhydrides	_		GS	inspection
	peroxides	insects			. infrared inspection
	inorganic peroxides	GS	animals		. x ray inspection
	hydrogen peroxide		. invertebrates	RT	acceptability
			0110014100	111	GOODIGDIIII

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) preventive maintenance aircraft approach spacing bearing (direction) aircraft instruments directivity quality control sampling approach control look angles (electronics) specifications approach indicators orientation standards blind landing positioning flight control static tests instrument packages statistical analysis flight instruments surveillance glide paths GS packages . instrument packages tolerances (mechanics) landing aids . . Apollo Lunar Surface Experiments landing radar ultrasonic flaw detection 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 . reconnaissance spacecraft data collection platforms adaptive optics calibrating ∞ compensation local scientific survey module ... Inspector satellite 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 GS documents calibrating ∞ 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 which allow the transitions (tunneling) from one vacuum state to another. . instrument transmitters flight instruments controllers flight plans ∞ instruments landing measuring instruments elementary particles low visibility recording instruments plasma physics transducers quantum chromodynamics instrument landing systems 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 UF 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 display devices instructors Package automatic control UF teachers flight control flight instruments GS personnel bioinstrumentation instructors glide paths bubble technique education ground based control controllers RT learning ∞ instruments densimeters landing schools display devices landing instruments night flights (aircraft) drag force anemometers

EASEP

students training evaluation

	EREP		dielectrics	GS	number theory
	flight instruments		electric conductors		. integers
	force vector recorders		electrical insulation		real numbers
	haploscopes		insulation		. integers
	heliostats		transmission lines	RT	arithmetic
	helmet mounted displays				complex numbers
	indicating instruments	insulin			congruences
	instrument landing systems	GS	drugs		digits
	instrument receivers		. insulin	∞	numbers
	instrument transmitters		secretions		
	laser altimeters		. endocrine secretions	integral	calculus
	measuring instruments		insulin	GS	analysis (mathematics)
	meteorological instruments	RT	diabetes mellitus		. calculus
	microwave sensors				integral calculus
	monitors		ce (contracts)		. real variables
	navigation instruments		Coverage by contract whereby one		measure and integration
	oculometers		dertakes to indemnify or guarantee an-		integral calculus
	packages		painst loss by a specified contingency or	RT	area
	propellant actuated instruments	peril.			differential calculus
	recording instruments	GS	contracts		integrals
	remote control		. insurance (contracts)		J integral
	rocket-borne instruments	RT	agreements		numerical integration
	satellite instruments		air law		operational calculus
	satellite-borne instruments		aircraft accident investigation		
	scatterometers		aircraft accidents	integral	equations
	SIM		assurance	UF	integrodifferential equations
			economic factors	GS	analysis (mathematics)
	sound detecting and ranging		extensions	0.0	. functional analysis
	spacecraft instruments surgical instruments		grants		. integral equations
	0		legal liability		Fredholm equations
	transducers		public law		J integral
	transmitters		space commercialization		singular integral equations
	tribometers		space law		Volterra equations
	turbine instruments		opaco law		
	ultrasonic densimeters	intake s	systems	DT	Wiener Hopf equations
		UF	induction systems	RT	asymptotic properties
	ed structures		inlets (devices)		calculus of variations
SN	(USE OF A MORE SPECIFIC TERM IS	GS	intake systems		differential equations
	RECOMMENDEDCONSULT THE TERMS	0.0	. air intakes		distributed parameter systems
RT	LISTED BELOW) dielectrics		engine inlets	000	equations
	electrical insulation		hypersonic inlets		ill-conditioned problems
	heat radiators		inlet airframe configurations		(mathematics)
	heat shielding		supersonic inlets		ill-posed problems (mathematics)
	hypersonic vehicles		. conical inlets		Mellin transforms
	insulation		. helical inducers		meshfree methods
					method of moments
	radiation shielding		. internal compression inlets		nonlinear equations
	reentry shielding		. nose inlets		Percus method
	reentry vehicles	DT	. side inlets		range (extremes)
	spacecraft shielding	RT	aerodynamic configurations		Schmidt method
			annular ducts		transport theory
	ng materials		bypass ratio		
USE	insulation		cooling systems	integral	functions
			duct geometry	USE	entire functions
insulati			ducted bodies		
SN	(MATERIAL)		ducts	integral	rocket ramjets
UF	insulating materials		entrances	DEF	A combination of a solid propellant
GS	insulation		exhaust systems	rocket a	and a ramjet which uses the empty
	. electrical insulation		feed systems	booster	case as a ramjet combustor.
	. multilayer insulation		feeders	GS	engines
	. thermal insulation		fuel systems		. air breathing engines
RT	absorbers (materials)		inlet flow		gas turbine engines
	asbestos		inlet nozzles		jet engines
	ceilings (architecture)		inlet temperature		ramjet engines
	composite materials		manifolds		integral rocket ramjets
	concretes		openings		. internal combustion engines
c	<ul> <li>construction materials</li> </ul>		pipe nozzles		gas turbine engines
	damping		plenum chambers		jet engines
	honeycomb structures		ramps (structures)		ramjet engines
c	∘ insulated structures		scoops		integral rocket ramiets
	insulators	•	∘ systems		. turbine engines
	interlayers		water intakes		gas turbine engines
	isolation				jet engines
	isolators	Intasat	satellite		
	jackets	GS	artificial satellites		ramjet engines integral rocket ramjets
	lining processes		. scientific satellites	DT	
	linings		Environmental Research Satellites	RT	rocket-based combined-cycle engines
	∘ materials		Intasat satellite		solid propellant rocket engines
	micarta	RT	Earth ionosphere		turbine engines
	oxides		lower atmosphere	inter	transformations
	potting compounds		magnetic fields		transformations
			troposphere	UF	transform integrals
	protection			GS	analysis (mathematics)
	suppressors	Intea M	ed and Behavioral Lab Measur System		. functional analysis
	vermiculite		IMBLMS		. integral transformations
	waterproofing		-		Fourier transformation
		Integ Pi	ogram for Aerospace Veh Design		fast Fourier transformations
insulat			IPAD		Fourier-Bessel transformations
SN	(EXCLUDES THERMAL				Hilbert transformation
	INSULATIONLIMITED TO DEVICES COMPOSED OF ELECTRICALLY	integer			Laplace transformation
	INSULATIVE MATERIALS)	DEF	Whole numbers; numbers that are not		transformations (mathematics)
RT	attenuators	a fractio	n.		. integral transformations

. . Fourier transformation

. fast Fourier transformations information retrieval input signal. Fourier-Bessel transformations integrators **libraries** Hilbert transformation on-line systems . digital integrators . . Laplace transformation RT circuits convolution integrals differentiators Integrated Maneuvering Life Support Sys Lighthill method solions IMLSS operators (mathematics) integrity integrated mission control center integrals integrity IMCC (control center) DEF Of or pertaining to an integer. . computer program integrity GS stations GS integrals completeness . ground stations convolution integrals privacy . . integrated mission control differential equations security center functionals vulnerability RT ∞ control integral calculus Gemini project ground based control ∞ mathematics integrodifferential equations differential equations real time operation integrated circuits integral equations DEF Combinations of interconnected circuit integrated optics elements inseparably associated on or within Intel 8080 microprocessor DEF Thin film devices containing tiny continuous substrates. To further define the nacomputer components lenses, prisms, and switches to transmit very ture of integrated circuits, additional modifiers . microprocessors thin laser beams, which serve the same purmay be prefixed. . Intel 8080 microprocessor poses as the manipulation of electrons in thin monolithic circuits data processing equipment film devices of integrated electronics. GS circuits . microprocessors electro-optics . integrated circuits . Intel 8080 microprocessor free-space optical interconnects integrated circuits
Langmuir-Blodgett films . . application specific integrated computers circuits intellect . . DTL integrated circuits . . encapsulated microcircuits lenses intelligence light transmission monomolecular films optical bistability field-programmable gate arrays . intellect . . large scale integration artificial intelligence linear integrated circuits inspiration optical interconnects optical switching . . medium scale integration mental performance . . TTL integrated circuits psychology . . very large scale integration . . VHSIC (circuits) optical waveguides ∞ optics intellectual property optoelectronic devices (added October 1995) burn-in burn-in charge flow devices chips (electronics) chips (memory devices) electronic packaging evolvable hardware hardware description languages integrated paties thin films intellectual property . copyrights . patents **Integrated Truss Structure P1** computer programs (added November 2002) DEF A structural component of the International Space Station incorporating elements of the External Active Thermal Control Subsystem, the UHF-band communications subsystem, and portions of the rail system for the Mobile Servicinventions law (jurisprudence) legal liability integrated optics licensing ion implantation open source licensing (computers) latch-up patent policy microchannel plates ing System. space station structures
. Integrated Truss Structure P1 procurement policy microminiaturization GS microprocessors intelligence International Space Station microstrip devices GS intelligence molecular electronics large space structures . artificial intelligence optoelectronic devices trusses . extraterrestrial intelligence photomasks 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, the S-band communications subsystem, and portions of the rail system for the Mobile Servicines Cyretes. . intellect photoresists RT abilities printed circuits cognitive psychology intelligence tests mental health mental performance reconfigurable hardware resonant tunneling diodes thick films thin films transistor circuits intelligence tests ing System. (added September 1992) RT abilities integrated energy systems space station structures
. Integrated Truss Structure S1
International Space Station DEF Community systems for energy generation and distribution. human performance RT communities intelligence large space structures electric power plants mental performance trusses energy conversion personality tests energy distribution personnel selection Integrated Truss Structure Z1 (added June 2000) heating psychological tests (added June 2000)
DEF An early exterior framework for the International Space Station to allow the first U.S. solar arrays to be temporarily installed on the Unity module for early power.

UF Z1 truss structure
GS space station structures
. Integrated Truss Structure Z1
RT International Space Station ∞ tests ∞ systems total energy systems intelligent materials utilities (added March 1998) integrated global ocean station systems USE smart materials IGOSS data collection platforms Global Atmospheric Research intelligent structures USE smart structures RT International Space Station Program ground stations trusses intelligibility Unity connecting module international cooperation intelligibility oceanographic parameters . speech recognition integration (real variables) ambiguity ∞ systems USE measure and integration ∞ coherence weather stations communication theory integrated library systems
GS information systems
integrated library systems ∞ interpretation integrators DEF In digital computers, devices for accomplishing a numeric approximation of the mathematical process of integration. Devices messages

information management

whose output is proportional to the integral of an

orthography

phonemics

information dissemination

interface stability phonetics fluid-solid interactions correction psycholinguistics gas-gas interactions multisensor applications scrambling (communication) gas-ion interactions standardization gas-liquid interactions interception Intelsat satellites gas-metal interactions autonomous docking artificial satellites gas-solid interactions . communication satellites high energy interactions docking proportional navigation ... Intelsat satellites interacting galaxies ion atom interactions pursuit-evasion games intensification laser plasma interactions rendezvous USE amplification laser target interactions spacecraft docking man environment interactions intensifier tubes Interceptor aircraft meson-meson interactions USE fighter aircraft USE image intensifiers meson-nucleon interactions molecular collisions ∞ interceptors intensifiers molecular interactions (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN intensifiers nuclear capture . image intensifiers nuclear interactions . image orthicons nuclear reactions fighter aircraft RT amplifiers satellite interceptors nucleon-nucleon interactions particle interactions YF-12 aircraft ∞ intensity particle theory 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 photon-electron interaction interconnection plasma interaction experiment USE joining plasma interactions plasma-electromagnetic interaction intercontinental ballistic missiles ICBM (missiles) plasma-particle interactions spatial distribution of some condition or physical GS missiles proton-proton reactions quantity, such as electric field, sound, magne-tism, etc. With respect to electromagnetic radia-tion, a measure of the radiant flux per unit solid . ballistic missiles shock wave interaction intercontinental ballistic missiles solar terrestrial interactions ... Atlas ICBM sound-sound interactions angle emanating from some source. Frequently, . Atlas D ICBM it is desirable to specify this as radiant intensity spin-orbit interactions . . . . Atlas E ICBM in order to distinguish it clearly from luminous strong interactions (field theory) . Atlas F ICBM wave interaction intensity. . . . Minuteman ICBM weak energy interactions RT amplitudes MX missile weak interactions (field theory) brightness . . . Titan ICBM flux (rate) interactive control .... Titan 1 ICBM flux density . Titan 2 ICBM DEF The sending of multiple commands level (quantity) . surface to surface missiles that are selected on the basis of data received loudness from an experiment in real time. ... intercontinental ballistic missiles **luminance** RT active control . . . Atlas ICBM luminous intensity . . . . Atlas D ICBM ∞ control magnitude control theory .... Atlas E ICBM noise intensity numerical control Atlas F ICBM 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 galaxy interaction USE multimedia fleet ballistic missiles GS celestial bodies intermediate range ballistic missiles . galaxies interannual variations Mark 1 reentry body . . interacting galaxies (added September 2000) Mark 2 reentry body RT galactic structure USE annual variations Mark 3 reentry body ∞ 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 GS mechanics (physics) . fluid mechanics intercalation Intercosmos satellites . . fluid dynamics Production of layer type semiconduct-GS artificial satellites . . . gas dynamics . geophysical satellites ing as well as other conducting materials (also ... interactional aerodynamics called synthetic metals). . . Cosmos satellites RT airfoils GS stratification . Intercosmos satellites blade-vortex interaction intercalation . Soviet satellites computational fluid dynamics RT ∞ chemical compounds . . Cosmos satellites ∞ flow graphite ... Intercosmos satellites laminar boundary layer interlayers rotor stator interactions ∞ layers intercranial circulation GS circulation

shock wave interaction

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

air land interactions air sea ice interactions air water interactions atomic collisions

atomic interactions beam interactions

blade-vortex interaction configuration interaction electromagnetic interactions

electron phonon interactions electroweak interactions (field theory)

elementary particle interactions

comparison

intercalibration

(added January 1999)

DEF Calibration between two or more data sources, including (1) the comparison of data sets acquired by different types of measurement systems for the purpose of deducing the calibration values for one of the measurement systems; (2) the mutual calibration of data from different measurement systems through the comparison of the data with model calculations; and (3) the calibration of multiple detectors on a single instrument through the comparison of data from each detector.

calibrating
. intercalibration GS RT

cranium skull interdigital transducers

RT

transducers

. interdigital transducers digital transducers

. intercranial circulation

. blood circulation

electroacoustic transducers piezoelectric transducers surface acoustic wave devices

interface stability

GS stability

. interface stability

RT fluid boundaries gas-solid interfaces interfaces liquid sloshing liquid-liquid interfaces liquid-solid interfaces liquid-vapor interfaces Taylor instability ullage

#### interfaces

A common boundary between two 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

RT 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

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

476

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) GS

interference factor table

RT ∞ interference modulation

multichannel communication

# interference fit

The condition where the diameter of the fastener is larger than the hole that it is to fit

GS joints (junctions)

interference fit

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

aerodynamic characteristics GS

. . 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
UF interferograms

interferometry GS

. 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 replica-

RT acquired immunodeficiency syndrome bacteriophages

biochemistry

∞ biology

human immunodeficiency virus physiological defenses viruses

intergalactic media extragalactic media

media . intergalactic media cooling flows (astrophysics) cosmic dust

cosmic gases cosmic plasma dark matter galactic halos

mass distribution stellar winds

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 . ballistic missiles molecular interactions 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 GS 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 . . J-34 engine GS J-47 engine . heavy fermion systems interlayers . heavy fermion superconductors . . J-52 engine interlayers RT alloying J-57 engine multilayer insulation alloys . . J-58 engine RT barrier layers aluminides J-65 engine fabrics ammines . . J-69-T-25 engine insulation antiphase boundaries J-71 engine intercalation . J-73 engine arsenides interlaminar stress borides J-75 engine 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) DEF Soluble factors which stimulate growth-related activities of leukocytes as well as nickel aluminides convertible fan-shaft engines phase diagrams J-97 engine 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 responses to immune and inflammatory stimuli. TF-41 engine silicides tellurides turboprop engines 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 USE locking 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

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

afterburning aircraft engines

automobile engines

automobile fuels

∞ bearing

# internal compression inlets

bearings International Satellite Geodesy booster rocket engines density (mass/volume) Experiment eddy viscosity International Space Station cams hysteresis carburetors 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 internal pressure politics (LIMITED TO PRESSURE INSIDE A PORTION OF MATTER DUE TO ATTRACTION BETWEEN MOLECULES) The pressure inside a portion of matter engine parts Proton launch vehicle SN engine primers **ROSAT** mission engine starters Russian Space Program DFF 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 United Nations fuel pumps cohesion 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 piston engines Canada 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 RT air intakes compressing International Computers Limited International Geosphere-Biosphere engine inlets USE ICL computers program GS inlet nozzles programs 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 International Hydrological Decade RT chemical energy 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 law (jurisprudence) European Union . international law fluidics hydrodynamics . . air law federations . . sea law pipes (tubes) French space program GLONASS . . space law internal friction Granat satellite conventions friction European Union information transfer GS legal liability . internal friction INMARSAT satellites anelasticity integrated global ocean station nations

systems

International Hydrological Decade

outer space treaty

peacetime

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

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.

UF 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

RT 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) Cupola Module

Destiny Laboratory Module Integrated Truss Structure P1

Integrated Truss Structure S1 Integrated Truss Structure Z1

international cooperation

Kibo Japanese Experiment Module

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 System

space station modules spaceborne experiments Unity connecting module Zarya control module

# International Space Year

(added April 1993)

ISY

RT ∞ aerospace sciences international relations

NASA space programs space exploration

space programs

# International Sun Earth Explorer 1

DEF First joint NASA-ESA satellite launched to investigate sun-Earth relationships NASA-ESA satellite 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

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 SI

GS units of measurement

### . International System of Units

conversion tables

∞ measurement

measuring instruments

metrication metrology

∞ systems

### international trade

UF exports foreign trade RT economics revenue

International Ultraviolet Explorer

USE IUE

# Internet resources

(added January 1997)

(USE FOR SOURCES OF INFORMATION, DATA, OR COMPUTER SOFTWARE ACCESSIBLE VIA THE INTERNET; FOR DESIGN OR FUNCTIONAL ASPECTS OF COMPUTER INTERNETWORKS USE "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 internets

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

RT 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

trajectories GS

# interorbital trajectories

interplanetary trajectories round trip trajectories spacecraft trajectories

interpersonal relations

USE human relations

# interphones

GS communication equipment

. interphones

RT earphones microphones telecommunication

#### interplanetary communication

telecommunication

space communication

interplanetary communication

circumlunar communication extraterrestrial communication facsimile communication lasers 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 meteoroids

micrometeoroids

Interplanetary Explorer

USE Explorer 18 satellite

interplanetary flight

UF planetary space flight

GS space flight

interplanetary flight

asteroid missions RT 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

outer planets explorers

planetary landing

return to Earth space flight round trip trajectories

space exploration

space navigation

spacecraft quidance

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

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

GS 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

IMP

# interplanetary navigation

navigation

. space navigation

. interplanetary navigation

astronavigation

celestial navigation

celestial reference systems

radar navigation

radio navigation

interplanetary propulsion

USE 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)

interplanetary shock waves

# interplanetary space

UF translunar space

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

# 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 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 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	. elliptical orbits	transportation networks
	Mariner 2 space probe	transfer orbits	total and the total and the control of
	Mariner 5 space probe	interplanetary transfer orbits	interservice data exchange program
	Mariner 10 space probe	. spacecraft orbits	UF IDEP (data exchange)
	Pioneer Venus 2 spacecraft	transfer orbits	RT ∞ data
	Pioneer Venus 2 entry probes	interplanetary transfer orbits	data retrieval
	Pioneer Venus 2 night probe	RT aeroassist	data storage
	Pioneer Venus 2 sounder probe Pioneer Venus 2 transporter bus	aerobraking	information retrieval libraries
	Venera satellites	aerocapture	military technology
	Venera 2 satellite	aeromaneuvering low Earth orbits	research
	Venera 3 satellite	orbital mechanics	research
	Venera 4 satellite	swingby technique	interstellar chemistry
	Venera 5 satellite	omingsy toomings	DEF Molecular formation/dissociation in in-
	Venera 6 satellite	interpolation	terstellar space due to radiation, collision, and
	Venera 7 satellite	GS analysis (mathematics)	other forces.
	Venera 8 satellite	. numerical analysis	RT association reactions
	Venera 9 satellite	interpolation	chemical reactions
	Venera 10 satellite	RT commutation	∞ chemistry
	Venera 11 satellite	computation	cosmochemistry
	Venera 12 satellite	extrapolation	diffuse interstellar bands
	Zond 1 space probe	finite difference theory	formyl ions interstellar matter
	Zond 3 space probe	statistical analysis	isotope ratios
	Zond 4 space probe		laboratory astrophysics
	Zond 5 space probe Zond 6 space probe	interpolators	molecular clouds
	Zond 6 space probe	USE repeaters	molecular interactions
	Zond 8 space probe	interpretation	reaction kinetics
	. Voyager 1 spacecraft		Submillimeter Wave Astronomy
	. Voyager 2 spacecraft	RECOMMENDEDCONSULT THE TERMS	Satellite
	. Zond space probes	LISTED BELOW)	
	Zond 1 space probe	RT decoding	interstellar communication
	Zond 2 space probe	intelligibility	GS communicating
	Zond 3 space probe	perception	. interstellar communication
	Zond 4 space probe	photointerpretation reading	RT extraterrestrial intelligence
	Zond 5 space probe	recognition	radio communication
	Zond 6 space probe	syntax	space communication
	Zond 7 space probe	translating	interstellar extinction
	Zond 8 space probe	ti di loidini g	UF interstellar reddening
ОТ	. MESSENGER (spacecraft)	interprocessor communication	GS extinction
RT	artificial satellites	DEF Communication between two or more	. interstellar extinction
	Deep Space 1 Mission	processors in a computer system.	RT astrophysics
	interstellar spacecraft landing modules	RT computer networks	diffuse interstellar bands
	maneuverable spacecraft	computer systems design	evolution (development)
	manned Mars missions	Connection Machine	interstellar gas
	manned spacecraft	Dining Philosophers Problem	radiation absorption
	matter-antimatter propulsion	distributed memory	stellar evolution
	rendezvous spacecraft	free-space optical interconnects	stellar radiation
	reusable spacecraft	hypercube multiprocessors	
	space capsules	local area networks	interstellar gas
	space exploration	MIMD (computers)	GS extraterrestrial matter
	space probes	multiprocessing (computers) parallel processing (computers)	. cosmic gases
~	spacecraft	SIMD (computers)	<b>interstellar gas</b> . interstellar matter
	unmanned spacecraft	transmission rate (communications)	interstellar gas
	Voyager 1977 mission	transputers	gases
		VSAT (network)	. rarefied gases
	netary trajectories	,	cosmic gases
GS	trajectories	interrelationships	interstellar gas
	. spacecraft trajectories	USE relationships	RT cooling flows (astrophysics)
	interplanetary trajectories Earth-Mars trajectories		galactic halos
	Earth-Mars trajectories	interrogation	H I regions
	Earth-Venus trajectories	RT data processing	H II regions
RT	Earth-Moon trajectories	IFF systems (identification)	heliosphere
	Goddard Trajectory Determination	secondary radar	interplanetary gas
	System	transmitter receivers	interstellar extinction
	interorbital trajectories	transponders	magnetic clouds methylidyne
	orbital launching	into word in	molecular clouds
	orbital mechanics	interruption RT electric relays	neutral gases
	parking orbits	packet switching	Ophiuchi clouds
	planetary orbits	sequencing	Orion nebula
	rendezvous trajectories	switches	spin temperature
	round trip trajectories	switching	star formation
	solar orbits	Switching	stellar mass accretion
	space navigation	intersections	stellar winds
	spacecraft guidance transfer orbits	SN (EXCLUDES BOOLEAN LOGICAL	
	Viking 1 spacecraft	PRODUCTS)	interstellar magnetic fields
	Viking 2 spacecraft	DEF In Boolean algebra, the operation in	UF galactic magnetic fields
	Viking lander 1	which concepts are described by stating that	GS magnetic fields
	Viking lander 2	they have all the characteristics of the classes involved. Intersection is expressed as AND.	. interstellar magnetic fields RT magnetic clouds
	Viking lander spacecraft	RT crossings	RT magnetic clouds stellar magnetic fields
	Viking orbiter 1	crossovers	Stellar mayrietto fletus
	Viking orbiter 2	highways	interstellar masers
	Viking orbiter spacecraft	∞ junctions	GS stimulated emission devices
		ramps (structures)	. masers
interpla	netary transfer orbits	roads	interstellar masers
	orbits	streets	RT coherent electromagnetic radiation

		P 9	later and all and the
	gas masers	magnetic sails	intracranial cavity
	lasers	manned space flight	California (California )
	microwave amplifiers	matter-antimatter propulsion	intracranial pressure
	molecular clouds	negative matter propulsion	GS pressure
	radiation sources		. intracranial pressure
	stimulated emission	interstices	RT brain
		RT cavities	
	water masers		intramolecular structures
		cracks	
interste	ellar matter	grain boundaries	RT molecular structure
GS	extraterrestrial matter	percolation	∞ structures
	. interstellar matter	permeability	
	cosmic dust	pinholes	intraocular pressure
			UF tonometry
	interplanetary dust	porosity	GS pressure
	meteoroid dust clouds	porous materials	
	zodiacal dust	voids	intraocular pressure
	dark matter		RT glaucoma
	interstellar gas	interstitials	
рт		RT additives	intraorbit transfer vehicles
RT	Alpha Magnetic Spectrometer		DEF Small scooter type tugs that would
	celestial bodies	antisite defects	move men and materials within an orbit.
	diffuse interstellar bands	crystal defects	
	formyl ions	crystal structure	RT Columbus space station
	gravitational instability	grain boundaries	large space structures
	H I regions	Laves phases	space platforms
		Lavoo phaooo	space shuttles
	H II regions	intersymbolic interference	∞ vehicles
	infrared cirrus (astronomy)		VOINGIGG
	interstellar chemistry	RT cochannel interference	intracacanal aggillations
	laboratory astrophysics	data transmission	intraseasonal oscillations
	mass distribution	∞ interference	(added September 2000)
		signal distortion	USE intraseasonal variations
	metallicity	transmission efficiency	
	methylidyne	transmission emclency	intraseasonal variations
	molecular clouds		(added September 2000)
	nebulae	intertropical convergent zones	
	Ophiuchi clouds	GS regions	UF intraseasonal oscillations
		. tropical regions	GS variations
	Orion nebula	intertropical convergent zones	. periodic variations
	polycyclic aromatic hydrocarbons		. intraseasonal variations
	Population I stars		Madden-Julian Oscillation
	reflection nebulae	fronts (meteorology)	
	spin temperature	GARP Atlantic Tropical Experiment	RT annual variations
		tropical meteorology	atmospheric circulation
	star formation	zonal flow (meteorology)	atmospheric models
	Stardust Mission	zonar now (motoorology)	climatology
	stellar envelopes	intervals	tropical meteorology
	stellar mass accretion		tropical meteorology
	Submillimeter Wave Astronomy	RT alternations	Interconnection acceptant
		consecutive events	intravascular system
	Satellite	spacing	RT blood circulation
		sten functions	∞ systems
interste	llar microwave spectra	step functions	∞ systems
interste USE		time	•
	interstellar radiation		intravehicular activity
		time topology	intravehicular activity RT ∞ activity
USE	interstellar radiation microwave spectra	time	intravehicular activity  RT ∞ activity  astronaut locomotion
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interste USE interste USE interste USE interste GS	interstellar radiation microwave spectra  ellar radiation interstellar microwave spectra extraterrestrial radiation corpuscular radiation cosmic noise cosmic rays electromagnetic radiation galactic radiation gamma ray bursts radiation radiative transfer stellar radiation  llar reddening interstellar extinction  ellar space environments aerospace environments deep space interstellar space extraterrestrial environments deep space interstellar space interplanetary space ellar spacecaft interplanetary spacecraft interplanetary spacecraft interplanetary spacecraft interstellar travel space flight interstellar travel space flight interstellar travel	time topology  intervehicle spacecrew transfer USE spacecrew transfer  intervertebral disks GS disks (shapes) . intervertebral disks RT ∞ disks musculoskeletal system vertebrae  intestines GS anatomy . digestive system . gastrointestinal system . intestines rectum RT abdomen appendix (anatomy) colic  intoxication RT ∞ poisoning toxicity and safety hazard toxicology  intracloud discharges (added August 1999) GS electric current . electric discharges . lightning . intracloud discharges intracranial cavity GS anatomy head (anatomy) . skull cranium	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 RT bioavailability catheterization in vivo methods and tests medical services  introversion  RT ∞ depression detachment human behavior ∞ inhibition psychology  Intruder aircraft USE A-6 aircraft intrusion  RT contamination 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
interste UF GS RT  interste USE interste GS  RT  interste interste RT	interstellar radiation microwave spectra  ellar radiation interstellar microwave spectra extraterrestrial radiation corpuscular radiation cosmic noise cosmic rays electromagnetic radiation galactic radiation gamma ray bursts radiation radiative transfer stellar radiation llar reddening interstellar extinction ellar space environments aerospace environments deep space interstellar space extraterrestrial environments deep space interstellar space interplanetary space ellar spacecraft interplanetary spacecraft interstellar travel space flight	time topology  intervehicle spacecrew transfer USE spacecrew transfer  intervertebral disks GS disks (shapes) . intervertebral disks RT ∞ disks musculoskeletal system vertebrae  intestines GS anatomy . digestive system . gastrointestinal system . intestines rectum RT abdomen appendix (anatomy) colic  intoxication RT ∞ poisoning toxicity and safety hazard toxicology  intracloud discharges (added August 1999) GS electric current . electric discharges . lightning . intracloud discharges intracranial cavity GS anatomy . head (anatomy) . skull	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 RT bioavailability catheterization in vivo methods and tests medical services  introversion  RT ∞ depression detachment human behavior ∞ inhibition psychology  Intruder aircraft USE A-6 aircraft  intrusion  RT contamination extruding leakage seepage  intrusion detection (computers) (added January 2003) DEF Manual or software-based detection of unauthorized entries or attempted break-ins into
interste USE interste USE interste USE interste GS	interstellar radiation microwave spectra  ellar radiation interstellar microwave spectra extraterrestrial radiation corpuscular radiation cosmic noise cosmic rays electromagnetic radiation galactic radiation gamma ray bursts radiation radiative transfer stellar radiation  ellar reddening interstellar extinction  ellar space environments aerospace environments deep space interstellar space extraterrestrial environments deep space interstellar space interplanetary space ellar spacecaft interplanetary flight interplanetary spacecraft interplanetary spacecraft interstellar travel space flight interstellar travel astronavigation	time topology  intervehicle spacecrew transfer USE spacecrew transfer  intervertebral disks GS disks (shapes) . intervertebral disks RT ∞ disks musculoskeletal system vertebrae  intestines GS anatomy . digestive system . gastrointestinal system . intestines . rectum RT abdomen appendix (anatomy) colic  intoxication RT ∞ poisoning toxicity and safety hazard toxicology  intracloud discharges (added August 1999) GS electric current . electric discharges . lightning . intracloud discharges intracranial cavity GS anatomy . head (anatomy) . skull cranium intracranial cavity . intracranial cavity intracranial cavity intracranial cavity intracranial cavity	intravehicular activity  RT ∞ activity     astronaut locomotion     astronaut performance     extravehicular activity     human performance     extravehicular activity     human performance     manned space flight     pilot performance     spacecraft environments     weightlessness  intravenous procedures  RT bioavailability     catheterization     in vivo methods and tests     medical services  introversion  RT ∞ depression     detachment     human behavior     ∞ inhibition     psychology  Intruder aircraft     USE A-6 aircraft  intrusion  RT contamination     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 of
interste USE interste USE interste USE interste GS	interstellar radiation microwave spectra  ellar radiation interstellar microwave spectra extraterrestrial radiation corpuscular radiation cosmic noise cosmic rays electromagnetic radiation galactic radiation gamma ray bursts radiation radiative transfer stellar radiation  llar reddening interstellar extinction  ellar space environments aerospace environments deep space interstellar space extraterrestrial environments deep space interstellar space interplanetary space ellar spacecaft interplanetary flight interplanetary spacecraft interplanetary spacecraft interstellar travel space flight interstellar travel astronavigation celestial reference systems	time topology  intervehicle spacecrew transfer USE spacecrew transfer  intervertebral disks GS disks (shapes) . intervertebral disks RT ∞ disks musculoskeletal system vertebrae  intestines GS anatomy . digestive system . gastrointestinal system . intestines rectum RT abdomen appendix (anatomy) colic  intoxication RT ∞ poisoning toxicity and safety hazard toxicology  intracloud discharges (added August 1999) GS electric current . electric discharges . lightning . intracloud discharges  intracranial cavity GS anatomy . skull . cranium . intracranial cavity . musculoskeletal system	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 RT bioavailability catheterization in vivo methods and tests medical services  introversion RT ∞ depression detachment human behavior ∞ inhibition psychology  Intruder aircraft USE A-6 aircraft  intrusion RT contamination 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 of other internal system information.
interste USE interste USE interste USE interste GS	interstellar radiation microwave spectra  ellar radiation interstellar microwave spectra extraterrestrial radiation corpuscular radiation cosmic noise cosmic rays electromagnetic radiation galactic radiation gamma ray bursts radiation radiative transfer stellar radiation llar reddening interstellar extinction ellar space environments aerospace environments deep space interstellar space extraterrestrial environments deep space interstellar space entraliantary space ellar spacecaft interplanetary space extraterrestrial environments dep space enterplanetary space interplanetary space ellar spacecraft interstellar travel space flight interstellar travel astronavigation celestial reference systems extraterrestrial intelligence	time topology  intervehicle spacecrew transfer USE spacecrew transfer  intervertebral disks GS disks (shapes) . intervertebral disks RT ∞ disks musculoskeletal system vertebrae  intestines GS anatomy . digestive system . gastrointestinal system . intestines rectum RT abdomen appendix (anatomy) colic  intoxication RT ∞ poisoning toxicity and safety hazard toxicology  intracloud discharges (added August 1999) GS electric current . electric discharges . lightning . intracloud discharges intracranial cavity GS anatomy . head (anatomy) . skull . cranium . intracranial cavity . musculoskeletal system . bones	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 RT bioavailability catheterization in vivo methods and tests medical services  introversion  RT ∞ depression detachment human behavior ∞ inhibition psychology  Intruder aircraft USE A-6 aircraft  intrusion  RT contamination 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 of other internal system information. GS security
interste USE interste USE interste USE interste GS	interstellar radiation microwave spectra  ellar radiation interstellar microwave spectra extraterrestrial radiation corpuscular radiation cosmic noise cosmic rays electromagnetic radiation galactic radiation gamma ray bursts radiation radiative transfer stellar radiation  llar reddening interstellar extinction  ellar space environments aerospace environments deep space interstellar space extraterrestrial environments deep space interstellar space interplanetary space ellar spacecaft interplanetary flight interplanetary spacecraft interplanetary spacecraft interstellar travel space flight interstellar travel astronavigation celestial reference systems	time topology  intervehicle spacecrew transfer USE spacecrew transfer  intervertebral disks GS disks (shapes) . intervertebral disks RT ∞ disks musculoskeletal system vertebrae  intestines GS anatomy . digestive system . gastrointestinal system . intestines rectum RT abdomen appendix (anatomy) colic  intoxication RT ∞ poisoning toxicity and safety hazard toxicology  intracloud discharges (added August 1999) GS electric current . electric discharges . lightning . intracloud discharges  intracranial cavity GS anatomy . skull . cranium . intracranial cavity . musculoskeletal system	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 RT bioavailability catheterization in vivo methods and tests medical services  introversion RT ∞ depression detachment human behavior ∞ inhibition psychology  Intruder aircraft USE A-6 aircraft  intrusion RT contamination 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 of other internal system information.

RT	access control computer networks	robotics	investments
	computer viruses	inverse scattering	investment casting
	firewalls (computers)	DEF Method for analyzing some classi	
		wave scattering.	GS forming techniques
Invader	aircraft	GS scattering	. casting
USE	B-26 aircraft	. inverse scattering	investment casting
		RT forward scattering	RT centrifugal casting
invalidit	/	resonance scattering	∞ investment
USE	errors		
		inversions	investments
invariar		GS inversions	RT depreciation
GS	invariance	. magnetic field inversions	economic impact
	. gauge invariance	. population inversion	economics
RT∘	constant	. temperature inversions	finance
	Lorentz transformations		∞ investment
	at too be adulted as	invertebrates	inviscid flow
	nt imbeddings	GS animals	
GS	geometry	. invertebrates	UF nonviscous flow GS fluid flow
	. topology	arthropods	inviscid flow
	. imbeddings (mathematics)	artemia	
БТ	invariant imbeddings	crabs	stagnation flow RT aerodvnamics
RT	anisotropic fluids	insects	
	calculus of variations	bees	Crocco method
	conformal mapping	bollworms	Crocco-Lee theory ∞ flow
	coordinate transformations	chironomus flies	
	differential geometry	cockroaches	flow characteristics
0	imbeddings	Coleoptera	gas flow
	isotropic turbulence	beetles	laminar flow
		tribolia	potential flow
inventio		boll weevils	Prandtl number
RT	intellectual property	crickets	Reynolds number
	patent applications	Drosophila	stagnation temperature
	patent policy	fireflies	turbulent flow
	patents	grasshoppers	viscous flow
	product development	locusts	in via la lita
		moths	invisibility
invento		silkworms	USE visibility
GS	inventories	spiders	involuntariness
	. crop inventories	mollusks	USE involuntary actions
	. timber inventory	cephalopods	OOL IIIVolulitary actions
RT	Large Area Crop Inventory	octopuses	involuntary actions
	Experiment	snails	UF involuntariness
	reserves	Rotifera	RT autonomic nervous system
0	storage	sea urchins	sneezing
		worms	spasms
	ry controls	flatworms	twitching
GS	management	RT bacteria	twitching
	. industrial management	hemocytes	involuntary muscle
	inventory management	larvae	(added December 2004)
	inventory controls	microorganisms	USE smooth muscle
	logistics management	poikilothermia	
	inventory management	politicalities	lo
	inventory controls	inverted converters (DC to AC)	DEF A satellite of Jupiter orbiting at a mear
RT ∘	control	RT alternating current	distance of 421,800 kilometers. Also called Ju-
	distributing	∞ converters	piter I.
	mathematical models	current converters (AC to DC)	GS celestial bodies
	optimal control	direct current	. natural satellites
	reserves	electric current	Jupiter satellites
	risk		Ġalilean satellites
0	storage	inverters	lo
	time lag	SN (EXCLUDES AC TO DC INVERTERS)	RT Callisto
		GS inverters	Charon
	ry management	. static inverters	Ganymede
GS	management	RT attenuators	Jupiter (planet)
	. industrial management	oscillators	1 W /
	. inventory management		iodates
	inventory controls	investigation	GS halogen compounds
	. logistics management	UF studies	. iodine compounds
	inventory management	GS investigation	iodates
	inventory controls	. accident investigation	lithium iodates
RT	downtime	aircraft accident investigation	
	logistics	. International Magnetospheric Study	iodides
	procurement management	RT examination	GS halogen compounds
	resources	experimentation	iodine compounds
	retirement for cause	•	iodides
	services	exploration geophysical fluid flow cells	cesium iodides
	spare parts	OSS-1 payload	gallamine triethiodide
	stockpiling		hafnium iodides
0	storage	programs	niobium iodides
		research and development	potassium iodides
	kinematics	research and development	silver iodides
(adde	ed December 1990)	sampling	sodium iodides
ĠS	kinematics	university program	zirconium iodides
	. inverse kinematics	invoctmont	
RT	dynamic control	∞ investment	iodimetry
	feedback control	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	GS chemical tests
	manipulators	LISTED BELOW)	. chemical analysis
	robot control	RT commerce	iodimetry
	robot dynamics	investment casting	RT quantitative analysis

 $\infty \ reduction$ . . . 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 of ions per unit volume of a given sample of air; 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 ion accelerators . . . . iodine 125 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) . . . . iodine 125 GS elastic waves ... ion density (concentration) . 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 ... lithium iodates . particle emission 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 bioelectric potential DEF Reaction engines in which ions, accel-... sodium iodides bioelectricity erated in an electrostatic field, are used as ... 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 . rocket engines charge exchange . . iodine charged particles . . electric rocket engines ... iodine isotopes ionization ... electrostatic engines . . . . iodine 125 valence .... ion engines . . . . iodine 131 . . . . . cesium engines .... iodine 132 ion concentration . . . . . Hall thrusters . 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

plasma engines restartable rocket engines

space station propulsion sustainer rocket engines

UF

GS

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

ion exchange resins

RT plastics zeolites

# ion exchanging

GS exchanging

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

implantation GS

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

- . ion irradiation
- . . deuteron irradiation
- . . proton irradiation

auroral irradiation electron irradiation ionic collisions neutron irradiation

# ion microscopes

GS microscopes

ion microscopes electron microscopes electron microscopy

scanning electron microscopy transmission electron microscopy

# ion mobility spectroscopy

(added September 1995) plasma chromatography

GS spectroscopy . ion mobility spectroscopy

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

# ion propulsion

GS propulsion

. electric propulsion

thermionic converters

. . 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

scattering GS

. 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

ion sources GS

. 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) lost from or transferred to neutral molecules or ... alphatrons atoms to form positively or negatively charged . . . . Bayard-Alpert ionization gages traps ion traps (instrumentation) particles. Used for electron ionization. Penning gages RT radiation counters electron ionization . . . Philips ionization gages GS ionization vacuum apparatus vapor traps . autoionization . vacuum gages ion-gas interactions .. ionization gages . gas ionization USE gas-ion interactions . . atmospheric ionization alphatrons ... auroral ionization . . . Bayard-Alpert ionization gages ionic collisions ... Penning gages . . flame ionization heavy ion collisions . . Philips ionization gages . ion production rates GS collisions . nonequilibrium ionization hot cathodes ionic collisions . photoionization Knudsen gages atomic collisions Mcleod gages surface ionization ion irradiation atomic collisions orbitrons ion scattering atomic excitations Pirani gages particle collisions coronas pressure measurement disintegration dissociation recoil ions ionization potentials ionic conductivity DEF The energy required to ionize an atom or molecule. The energy is usually given in electric arcs USE ion currents electric corona terms of electron volts.
GS potential energy
ionization potentials electric discharges ionic crystals electric sparks crystals GS electron attachment ionic crystals activation excitation chemical bonds electric potential ion charge crystal lattices ion density (concentration) nuclear binding energy excitons ion emission ∘ potential lattice energy ion sources Saha equations polarons ionospheric composition work functions magnetohydrodynamics ionic diffusion molecular excitation GS diffusion oxygen recombination . particle diffusion Schwarzschild metric . ionic diffusion single event upsets gases ambipolar diffusion stellar coronas . ionized gases diffusion waves thermal dissociation . . Lorentz gas electron diffusion particles ion scattering ionization chambers . charged particles plasma diffusion Apparatus used to study the produc-. . ionized gases self diffusion (solid state) tion of small ions in the atmosphere by cosmic . . Lorentz gas rays and radioactive bombardment of air mol-RT cosmic gases ecules. electron gas In gaseous electric conduction, the avion chambers Fokker-Planck equation erage velocity with which a given ion drifts GS ionization chambers gas ionization through a specified gas under the influence of . bubble chambers an electric field of unit strength. Mobilities are gas temperature cloud chambers commonly expressed in units of centimeters per H II regions . Geiger counters high temperature gases second per volt per centimeter. proportional counters mobility neutral gases GS spark chambers ionic mobility plasmas (physics) RT ∞ chambers recombination coefficient transport properties counters ionic mobility dosimeters RT ambipolar diffusion ionized plasmas electron counters anions USE plasmas (physics) ionizers atomic mobilities neutron counters cations ionizers radiation counters electrohydrodynamics radiation measuring instruments electrolysis threshold detectors (dosimeters) electrolytic cells form positively charged ions. electromigration ionization coefficients RT ∞ filaments ion distribution GS coefficients gas ionization ion injection . ionization coefficients ∞ grids ions ion engines motion ionization counters ionization chambers NDM semiconductor devices USE radiation counters surface ionization negative ions positive ions tube grids ionization cross sections RT absorption cross sections ionic propellants ionizing radiation ∞ cross sections USĖ ion engines nonadiabatic theory scattering cross sections ionic reactions RT charge transfer GS ionizing radiation ionization frequencies molecular interactions . alpha particles frequencies ionization frequencies

ionic waves GS elastic waves . ionic waves collisionless plasmas electrostatic waves

> ion motion ionospheric conductivity ionospheric propagation

ion cyclotron radiation

plasma waves ∞ waves

# ionization

DEF The process by which electrons are ing the number and type of ions produced with the pressure of the gas. Various types of ioniza-

tion gages are distinguished according to the method of producing the ionization. Used for ion gages.

DEF Vacuum gages with a means of ioniz-

ing the gas molecules and a means of correlat-

ŬÆ ion gages

ionization gages

measuring instruments GS

. pressure gages . . vacuum gages

... ionization gages

(LIMITED TO PARTIALLY IONIZED GASES; SEE PLASMAS (PHYSICS) FOR COMPLETELY IONIZED MATTER)

DEF Filaments, grids, or porous bodies in ion engines or other devices which strip electrons from the outer shells of neutral atoms to

DEF Any electromagnetic or particulate radiation capable of producing ions, directly or indirectly, in its passage through matter.

. 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)	RT	LISTED BELOW) Earth ionosphere		electron density (concentration)
coherent electromagnetic radiation corpuscular radiation		magnetosphere-ionosphere coupling	RT	ionospheric electron density Ariel 4 satellite
electromagnetic radiation		planetary ionospheres		magnetospheric electron density
electron beams	ionocn	heric absorption		magneteephene electron denoty
elementary particles		electromagnetic absorption		heric F-scatter propagation
emission	002	ionospheric propagation	GS	scattering
extreme ultraviolet radiation				wave scattering     electromagnetic scattering
fluence gamma ray absorption		heric blackout		ionospheric F-scatter
gamma ray spectra	USE	blackout (propagation)		propagation
ion sources	ionosr	heric composition		transmission
irradiation	GS	composition (property)		. electromagnetic wave transmission
linear energy transfer (LET)		. atmospheric composition		radio transmission
monochromatic radiation		ionospheric composition		ionospheric propagation
nuclear radiation	RT	atom concentration		ionospheric F-scatter propagation
particle trajectories ∞ radiation		chemical composition 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		havia aandrostiriter		ionospheric propagation ionospheric F-scatter
radioactivity radiochemistry	GS	heric conductivity electrical properties		propagation
relativistic electron beams	ao	. electrical properties		wave propagation
solar radiation		ionospheric conductivity		ionospheric propagation
sterilization		transport properties		ionospheric F-scatter
system generated electromagnetic		atmospheric conductivity		propagation
pulses		. ionospheric conductivity		scatter propagation
ionograms		. electrical resistivity		ionospheric F-scatter propagation
RT ion density (concentration)	RT	ionospheric conductivity ∞ conductivity		propagation
ionosondes	111	electrojets	ionosp	heric heating
riometers		ionic waves	GS	heating
ionopause		plasma conductivity		ionospheric heating
SN (EXCLUDES PLASMAPAUSE)			RT	atmospheric radiation
DEF The upper boundary of the ionosphere		heric cross modulation		plasma heating
of certain planets (excluding the Earth) and comets where electrons decline sharply. The	GS	electromagnetic interference . crosstalk	ionosp	heric ion density
Earth's ionopause is referred to as the plasma-		ionospheric cross modulation		density (number/volume)
pause. (Excludes plasmapause.)		. radio frequency interference		. particle density (concentration)
RT cometary atmospheres		ionospheric cross modulation		ion density (concentration)
planetary atmospheres		modulation	5.7	ionospheric ion density
plasmapause		ionospheric cross modulation	RI	magnetospheric ion density
space plasmas	RT	Luxembourg effect		positive ions
Venus atmosphere	ionosr	heric currents	ionosp	heric 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 hihg 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 Pedersen currents		electromagnetic noise ionospheric noise
echos from the ionosphere as a function of		electricity		whistlers
frequency. Modern digital pulse ionosondes		. atmospheric electricity	RT	background noise
measure not only the amplitude, but also phase		. ionospheric currents		background radiation
or Doppler frequency, polarization, and arrival angle of the echoes.		Birkeland currents		ionospheric disturbances
GS measuring instruments		electrojets		riometers
. meteorological instruments		auroral electrojets		sky waves
radiosondes		equatorial electrojet Pedersen currents	ionosp	heric propagation
ionosondes	RT	field aligned currents		ionospheric absorption
. sondes		plasma currents		ionospheric reflection
radiosondes		traveling ionospheric disturbances	GS	transmission
ionosondes				electromagnetic wave transmission
radio equipment . radio transmitters		heric disturbances		radio transmission
radiosondes	GS	ionospheric disturbances		ionospheric propagation ionospheric F-scatter
ionosondes		. ionospheric storms sudden ionospheric disturbances		propagation
transmitters		. traveling ionospheric disturbances		. signal transmission
. radio transmitters	RT	Birkeland currents		radio transmission
radiosondes		blackout (propagation)		ionospheric propagation
<b>ionosondes</b> RT ion probes		∞ disturbances		ionospheric F-scatter
RT ion probes ionograms		ionospheric noise		propagation
ionospheric sounding		magnetic variations		. wave propagation ionospheric propagation
riometers		space weather		ionospheric F-scatter propagation
satellite sounding	ionosr	heric drift	RT	antipodes
sounding rockets		∞ 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 magnetoionics
ionospheres	ionosr	heric electron density		ORBIS
SN (USE OF A MORE SPECIFIC TERM IS	GS	density (number/volume)		ORBIS CAL satellite

 $\infty$   $\,$  ionospheres  $\,$  SN  $\,$  (USE OF A MORE SPECIFIC TERM IS

# 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

DEF 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 UF

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

. . vánadyl 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

GS nations

. United States

. Iowa RT

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 IPAD

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

GS nations

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

iridium compounds

(added July 1991) RT ∞ chemical compounds

platinum alloys

∞ 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

(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

Iridium network

. communication networks

. . Iridium network . satellite networks

. . satellite constellations

	luidium maturaule	·	ny wyb otito
ОТ	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 ∞ chemical compounds
	wireless communication	iron 59	∞ Group 8 compounds
		radioactive isotopes	∞ metal compounds
Iridium s	satellites	iron 59	motal compounds
	ed December 1998)	metals	iron cyanides
	communication satellites		GS cyanides
OOL	Iridium network	. transition metals	
	maiam network	iron	iron cyanides
IDIO	. 101	iron isotopes	iron compounds
IRIS sat		iron 59	. iron cyanides
GS	artificial satellites		
	. IRIS satellites	iron alloys	iron isotopes
RT	European space programs	UF ferroalloys	GS chemical elements
	satellite observation	GS alloys	. iron
	solar activity	. iron alloys	iron isotopes
	solar cycles	steels	iron 57
	solar energy	bainitic steel	iron 58
	solar flares	carbon steels	iron 59
	solar radiation	low carbon steels	
			. nuclides
	solar sensors	chromium steels	isotopes
		Croloy	iron isotopes
	nechanical apertures)	high strength steels	iron 57
GS	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	
	waveguides	RT austenite	iron isotopes
IRM			iron 57
	information reserves	bainite	iron 58
USE	information resources	bearing alloys	iron 59
	management	cementite	RT ferrous metals
_		ferrites	
iron		Hastelloy (trademark)	iron meteorites
GS	chemical elements	Inconel (trademark)	UF siderite meteorites
	. iron	iron aluminides	GS celestial bodies
	iron isotopes	kamacite	. meteorites
	iron 57		
	iron 58	martensite	iron meteorites
	iron 59	nimonic alloys	Aroos meteorite
		pearlite	Lazarev meteorite
	metals	Permalloys (trademark)	Odessa meteorite
	. transition metals	silicon alloys	Sikhote-Alin meteorite
	iron	Zircaloys (trademark)	RT achondrites
	iron isotopes		Harleton meteorite
	iron 57	iron aluminides	kamacite
	iron 58	(added December 2000)	
	iron 59	GS aluminum compounds	meteoritic composition
RT	ferric ions	. aluminides	meteoritic microstructures
	ferrous metals		Okhansk meteorite
		iron aluminides	schreibersite
	hydrogen embrittlement	iron compounds	stony meteorites
	low carbon steels	. iron aluminides	stony-iron meteorites
	siderophile elements	RT aluminum alloys	troilite
		intermetallics	Widmanstatten structure
iron 57		iron alloys	Trianianotation of dotain
GS	chemical elements	,	iron ores
	. iron	iron chlorides	
	iron isotopes	GS halogen compounds	GS minerals
	iron 57	. chlorine compounds	. iron ores
	. nuclides		hematite
		chlorides	
	isotopes	iron chlorides	iron oxides
	iron isotopes	. halides	GS chalcogenides
	iron 57	chlorides	. oxides
	metals	iron chlorides	metal oxides
	. transition metals	metal halides	iron oxides
	iron	iron chlorides	hematite
	iron isotopes	iron compounds	ilmenite
	iron 57	iron chlorides	
			magnetite
iron 58		iron compounds	iron compounds
DEF	A radioactive isotope of iron.	GS iron compounds	iron oxides
GS	chemical elements	. cohenite	hematite
GS			ilmenite
	. iron	. cordierite	magnetite
	iron isotopes	. fayalite	· ·
	iron 58	ferrates	Iroquois helicopter
	. nuclides	barium ferrates	USE UH-1 helicopter
	isotopes	. ferrites	OOL OH-I Helicoptei
	iron isotopes	. ferrocenes	irradianaa
	iron 58	alkylferrocene	irradiance
	metals	. iron chlorides	SN (LIMITED TO DETECTION RATE PER
			UNIT AREA OF RADIATION)  DEF The detection rate per unit area of
	. transition metals	. iron cyanides	•
	iron	. iron oxides	radiation.
	iron isotopes	hematite	GS rates (per time)
	iron 58	ilmenite	. flux density
		magnetite	radiant flux density
iron 59		. limonite	irradiance
GS	chemical elements	. pyrites	illuminance
<u></u>		- F7.100	
			480

	solar constant		nonuniformity		thermodynamic equilibrium
	ectron flux density		regularity	loina m	andal
	minance minous intensity	irrevers	ible processes	Ising m RT	antiferromagnetism
	eutron flux density	RT	nonequilibrium thermodynamics		cluster variation method
	notosynthetically active radiation		Onsager relationship		crystal lattices
pr	oton flux density		reaction kinetics		ferromagnetism
	diance		thermodynamics		particle spin
	olar Backscatter UV Spectrometer		thermoviscoelasticity variational principles		phase transformations statistical mechanics
50	plar flux density		variational principles		statistical mechanics
irradiation		irrigatio	on	ISIS sa	tellites
	radiation	RT	agriculture	SN	(INTERNATIONAL SATELLITES FOR IONOSPHERIC STUDY)
	auroral irradiation		alfalfa	UF	International Sats for Ionospheric
	electron irradiation on irradiation		barley canals		Study
	deuteron irradiation		citrus trees	GS	artificial satellites
	proton irradiation		corn		. ISIS satellites Alouette 2 satellite
	neutron irradiation		crop vigor		ISIS-A
	c ray irradiation		ditches		ISIS-B
	ctivation eams (radiation)		drainage drainage patterns		ISIS-X
	ombardment		farm crops	RT	Alouette satellites
	osimeters		farmlands	ISIS-A	
	ectromagnetic absorption		oats	GS	artificial satellites
	ectron probes		orchards		. ISIS satellites
	nission ccitation		ponds		ISIS-A
	posure		seepage sugar beets	RT	Alouette project
	ix density		sugar cane	ISIS-B	
	nizing radiation		troughs	GS	artificial satellites
	ser induced fluorescence		vegetation growth		. ISIS satellites
	uclear capture uclear fusion		vineyards		ISIS-B
	uclear radiation		water consumption	ISIS-X	
	eserving	irritatio	n	GS	artificial satellites
	diation	GS	irritation		. ISIS satellites
	diation dosage	БТ	. toxicity and safety hazard		ISIS-X
	diation effects diation measurement	HI∘	· reaction	RT	Alouette B satellite
	diation tolerance	irrotatio	nal flow	Iskra ai	rcraft
	diobiology		potential flow		TS-11 aircraft
ra	diography				
ta	rgets		lian spacecraft)	island a	
irrationalit	v	USE	Indian spacecraft	GS	landforms . island arcs
	y sorientation	ISAGE)	(	RT	Aleutian Islands (US)
	thers	USE	International Satellite Geodesy		∘ arcs
	ental performance		Experiment		barriers (landforms)
	ejudices	ISCCP	Project		islands
	sychoses chizophrenia		ed August 1991)		keys (islands) lagoons
50	silizoprirerila	UF	International Satellite Cloud		reefs
irregular g	alaxies		Climatology		
	alaxies with amorphous structure	GS	programs	islands	
	latively low mass (10 to the 8th to 10		. projects ISCCP Project	DEF	Tracts of land smaller than a continent,
	solar masses). Fewer than 10 pergalaxies are classified as irregular.	RT	climatology		ded by the water of oceans, seas, lakes, ms. The term has been loosely applied
	elestial bodies		cloud cover		tied and submerged areas, and to land
	galaxies		clouds (meteorology)		on two or more sides by water, such as
	irregular galaxies		GOES satellites	peninsu	
	L Lacertae objects alactic radiation		METEOSAT satellite remote sensing	GS	landforms . islands
_	alactic rotation		satellite observation		Aleutian Islands (US)
	alactic structure				Assateague Island (MD-VA)
	um nebula	ischem			atolls
	ubble constant	RT	anemias		Azores Bahrain
	ubble diagram ebulae		blood circulation congestion		Bermuda
	rion nebula		vasoconstriction		Canary Islands
	opulation I stars				Cyprus
	uasars	ISEE			Greenland
	dio sources (astronomy)	USE	International Sun Earth Explorers		Hawaii Iceland
	d shift ar clusters	isentro	oe .		. Indonesia
	ars		A line of equal or constant pressure,		Ireland
		with res	pect to either space or time.		keys (islands)
	ariable stars	RT	adiabatic conditions		Long Island (NY)
	elestial bodies stars		isentropic processes Mollier diagram		Madagascar Maldive Islands
	variable stars		Poisson equation		Malta
	. irregular variable stars				Mauritius
	R Coronae Borealis stars		pic processes		Merritt Island (FL)
	arbon stars	GS	isentropic processes		Newfoundland
se	emiregular variable stars	RT	. nonisentropicity Bernoulli theorem		nunataks Pacific islands
irregulariti	es	111	isentrope		Guam
RT ab	onormalities		isoenergetic processes		Japan
	efects		isopycnic processes		Johnston Island
de	eviation	0	processes		Kurile Islands

	New Guinea (island)	diisocyanates	Lagrange multipliers
	New Zealand	fulminates	matrices (mathematics)
	Philippines		∞ problems `
	Samoa	isoelectronic sequence	topology
	. Prince Edward Island	RT atomic structure	topology
	Seychelles	spectra	to and other
	Sicily	spectroscopy	isophotes
	,	эрссиозсору	RT ∞ illumination
	Tasmania	inconorgatio processos	
	Wallops Island	isoenergetic processes	isopleths
	West Indies	RT adiabatic conditions	USE nomographs
	Antigua and Barbuda	isentropic processes	• .
	Bahamas	thermodynamic equilibrium	isopropyl alcohol
	Barbados		GS hydroxyl compounds
	Cuba	isolation	. alcohols
	Dominica	GS isolation	isopropyl alcohol
	Grenada	. social isolation	
	Guadeloupe	RT confinement	isopropyl compounds
	Haiti	confining	. isopropyl alcohol
	Jamaica	deprivation	RT isomers
	Lesser Antilles	disposal	
	Martinique	exclusion	isopropyl compounds
	Puerto Rico	gnotobiotics	GS isopropyl compounds
	Trinidad and Tobago	insulation	. isopropyl alcohol
		isolators	RT ∞ chemical compounds
ОТ	Virgin Islands	∞ separation	•
RT	archipelagoes	· .	isopropyl nitrate
	Cape Verde	spacing	GS alkyl compounds
	coral reefs	isolators	. isopropyl nitrate
	island arcs		esters
	lagoons	GS isolators	. nitrate esters
	Outer Banks (NC)	. vibration isolators	
	reefs	RT attenuators	isopropyl nitrate
	seamounts	insulation	nitrogen compounds
		isolation	. nitrate esters
ISMU (I	resource utilization)	noise reduction	isopropyl nitrate
	ed August 2001)	shock absorbers	
	in situ resource utilization	spacers	isopycnic processes
		suppressors	UF isosteric processes
∞ isobars		vibration	RT density (mass/volume)
SN	(USE OF A MORE SPECIFIC TERM IS	The table is	isentropic processes
0.1	RECOMMENDEDCONSULT THE TERMS	isomerization	isobars (pressure)
	LISTED BELOW)	DEF Process for converting hydrocarbon or	isochoric processes
RT	baroclinity	other organic compound to an isomer.	isocriono processes
	barotropism	GS isomerization	Annual Control of the
	isobars (pressure)	. ortho para conversion	isostasy
	nuclear isobars		DEF A supposed equality existing in vertical
	polytropic processes	RT ∞ conversion	sections of the Earth, whereby the weight of any
	. ,	refining	column from the surface of the Earth to a
isobars	(pressure)		constant depth is approximately the same as
DEF	Lines of equal or constant pressure,	isomers	that of any other column of equal area, the
	ally, such lines on a weather map.	DEF Nuclides having the same mass num-	equilibrium being maintained by plastic flov
RT	atmospheric pressure	ber A and atomic number Z, but existing for	from one part of the Earth to another.
• • • •	geostrophic wind	measurable times in different quantum states	RT ∞ equilibrium
	gradients	with different energies and radioactive proper-	geomorphology
	∘ isobars	ties. Molecules having the same atomic compo-	geophysics
0		sition and molecular weight, but differing in	glaciology
	isochoric processes	geometrical configuration.	gravitation
	isopycnic processes	GS isomers	
	isothermal processes	. enantiomers	hydrostatics
	meteorological charts	RT atoms	orography
	pressure	congeners	seismology
	pressure distribution	isopropyl alcohol	subsidence
	pressure gradients		
		nuclear chemistry	isostatic pressure
isobuta	ne	phenanthrene	GS pressure
(add	ed March 1996)	stereochemistry	isostatic pressure
USE	butanes	tautomers	RT atmospheric pressure
			hot isostatic pressing
isobutyl	lene	isomorphism	hydrostatic pressure
USE	butenes	UF morphotropism	static pressure
		GS morphology	otatio procodio
isocho	ric processes	. isomorphism	
RT	isobars (pressure)	RT crystal lattices	isosteric processes
	isopycnic processes	crystal structure	USE isopycnic processes
		duality theorem	
	thermodynamic equilibrium	•	isotensoid structures
	thermodynamic equilibrium	enaniiomeis	
	thermodynamic equilibrium volume	enantiomers homomorphisms	DEF Filamentary structures in which the
isochro	volume	homomorphisms	DEF Filamentary structures in which the
isochro	volume	homomorphisms	DEF Filamentary structures in which the filaments are uniformly stressed throughout fo
isochro RT	volume omatics color	homomorphisms isoparametric finite elements	DEF Filamentary structures in which the
	volume on the color dichroism	homomorphisms  isoparametric finite elements  DEF The basis for the calculation of physi-	DEF Filamentary structures in which the filaments are uniformly stressed throughout fo the design loading conditions.  RT composite wrapping
	volume on the color of the colo	homomorphisms  isoparametric finite elements  DEF The basis for the calculation of physical properties of structural shapes including	DEF Filamentary structures in which the filaments are uniformly stressed throughout fo the design loading conditions.  RT composite wrapping filament winding
	volume  practics color dichroism diffraction interferometry	homomorphisms  isoparametric finite elements  DEF The basis for the calculation of physical properties of structural shapes including stress analyses.	DEF Filamentary structures in which the filaments are uniformly stressed throughout fo the design loading conditions.  RT composite wrapping filament winding pressure vessels
	volume  matics color dichroism diffraction interferometry refraction	homomorphisms  isoparametric finite elements  DEF The basis for the calculation of physical properties of structural shapes including stress analyses.  RT conformal mapping	DEF Filamentary structures in which the filaments are uniformly stressed throughout fo the design loading conditions.  RT composite wrapping filament winding pressure vessels prestressing
	volume  practics color dichroism diffraction interferometry	homomorphisms  isoparametric finite elements  DEF The basis for the calculation of physical properties of structural shapes including stress analyses.  RT conformal mapping coordinate transformations	DEF Filamentary structures in which the filaments are uniformly stressed throughout fo the design loading conditions.  RT composite wrapping filament winding pressure vessels prestressing shells (structural forms)
RT	volume  color dichroism diffraction interferometry refraction speckle interferometry	homomorphisms  isoparametric finite elements  DEF The basis for the calculation of physical properties of structural shapes including stress analyses.  RT conformal mapping  coordinate transformations  ∞ elements	DEF Filamentary structures in which the filaments are uniformly stressed throughout fo the design loading conditions.  RT composite wrapping filament winding pressure vessels prestressing shells (structural forms) spiral wrapping
RT isocyar	volume  promatics color dichroism diffraction interferometry refraction speckle interferometry nates	homomorphisms  isoparametric finite elements  DEF The basis for the calculation of physical properties of structural shapes including stress analyses.  RT conformal mapping coordinate transformations	DEF Filamentary structures in which the filaments are uniformly stressed throughout fo the design loading conditions.  RT composite wrapping filament winding pressure vessels prestressing shells (structural forms) spiral wrapping   ∞ structures
RT	volume  promatics color dichroism diffraction interferometry refraction speckle interferometry nates	homomorphisms  isoparametric finite elements  DEF The basis for the calculation of physical properties of structural shapes including stress analyses.  RT conformal mapping  coordinate transformations  ∞ elements	DEF Filamentary structures in which the filaments are uniformly stressed throughout fo the design loading conditions.  RT composite wrapping filament winding pressure vessels prestressing shells (structural forms) spiral wrapping
RT isocyar	volume  promatics color dichroism diffraction interferometry refraction speckle interferometry nates	homomorphisms  isoparametric finite elements  DEF The basis for the calculation of physical properties of structural shapes including stress analyses.  RT conformal mapping coordinate transformations  ∞ elements  finite element method	DEF Filamentary structures in which the filaments are uniformly stressed throughout fo the design loading conditions.  RT composite wrapping filament winding pressure vessels prestressing shells (structural forms) spiral wrapping   ∞ structures
RT isocyar	volume  practics color dichroism diffraction interferometry refraction speckle interferometry nates esters isocyanates	homomorphisms  isoparametric finite elements  DEF The basis for the calculation of physical properties of structural shapes including stress analyses.  RT conformal mapping coordinate transformations  ∞ elements  finite element method  fracture mechanics  numerical analysis	DEF Filamentary structures in which the filaments are uniformly stressed throughout fo the design loading conditions.  RT composite wrapping filament winding pressure vessels prestressing shells (structural forms) spiral wrapping   ∞ structures
RT isocyar	volume  contains color dichroism diffraction interferometry refraction speckle interferometry  nates esters isocyanates disocyanates	homomorphisms  isoparametric finite elements  DEF The basis for the calculation of physical properties of structural shapes including stress analyses.  RT conformal mapping coordinate transformations  ∞ elements finite element method fracture mechanics	DEF Filamentary structures in which the filaments are uniformly stressed throughout fo the design loading conditions.  RT composite wrapping filament winding pressure vessels prestressing shells (structural forms) spiral wrapping  ∞ structures tensegrity structures  isothermal flow
RT isocyar	volume  practics color dichroism diffraction interferometry refraction speckle interferometry nates esters isocyanates dissocyanates fulminates	homomorphisms  isoparametric finite elements  DEF The basis for the calculation of physical properties of structural shapes including stress analyses.  RT conformal mapping coordinate transformations  ∞ elements  finite element method fracture mechanics numerical analysis stress analysis	DEF Filamentary structures in which the filaments are uniformly stressed throughout fo the design loading conditions.  RT composite wrapping filament winding pressure vessels prestressing shells (structural forms) spiral wrapping  ∞ structures tensegrity structures  isothermal flow  GS fluid flow
RT isocyar	volume  practics color dichroism diffraction interferometry refraction speckle interferometry  nates esters . isocyanates . diisocyanates . ituliminates nitrogen compounds	homomorphisms  isoparametric finite elements  DEF The basis for the calculation of physical properties of structural shapes including stress analyses.  RT conformal mapping coordinate transformations  ∞ elements  finite element method fracture mechanics numerical analysis stress analysis  isoperimetric problem	DEF Filamentary structures in which the filaments are uniformly stressed throughout fo the design loading conditions.  RT composite wrapping filament winding pressure vessels prestressing shells (structural forms) spiral wrapping  ∞ structures tensegrity structures  isothermal flow  GS fluid flow . isothermal flow
RT isocyar	volume  practics color dichroism diffraction interferometry refraction speckle interferometry nates esters isocyanates dissocyanates fulminates	homomorphisms  isoparametric finite elements  DEF The basis for the calculation of physical properties of structural shapes including stress analyses.  RT conformal mapping coordinate transformations  ∞ elements  finite element method fracture mechanics numerical analysis stress analysis	DEF Filamentary structures in which the filaments are uniformly stressed throughout fo the design loading conditions.  RT composite wrapping filament winding pressure vessels prestressing shells (structural forms) spiral wrapping  ∞ structures tensegrity structures  isothermal flow  GS fluid flow

# 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	protrictinum isotopes
	stratospheric warming	beryllium 10	radioactive isotopes
	temperature distribution	bismuth isotopes	astatine isotopes
	temperature gradients	boron isotopes	beryllium 7
	thermal mapping	boron isotopes	•
	tropopause		beryllium 9
		bromine isotopes	beryllium 10
	mal processes	cadmium isotopes	carbon 14
DEF	Thermodynamic changes of state of a	calcium isotopes	cerium 137
	that take place at constant temperature.	carbon isotopes carbon 12	cerium 144 cesium 134
RT	adiabatic conditions	carbon 12	cesium 137
	isobars (pressure)	carbon 13	cesium 137
	isotherms	carbon 14	cobalt 58
	thermodynamic equilibrium	cerium 137	cobalt 60
		cerium 144	copper isotopes
isother		cesium isotopes	gold 198
DEF	Lines connecting points of equal tem-	cesium 133	indium isotopes
perature		cesium 134	iodine 125
RT	Atmospheric & Oceanographic Inform	cesium 137	iodine 131
	Sys	cesium 144	iodine 132
	atmospheric temperature 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	potassium 38
	thermal mapping	gadolinium isotopes	potassium 40
	thermodynamics	gallium isotopes	rubidium 86
	inermodynamice	germanium isotopes	sodium 22
isotonio	citv	gold isotopes	sodium 24
RT	body fluids	gold 198	strontium 85
	osmosis	hafnium isotopes	strontium 88
		helium isotopes	strontium 89
isotope	abundance ratios	holmium isotopes	strontium 90
USE	isotope ratios	hydrogen isotopes	transuranium element
	•	deuterium	americium
isotope	effect	hydrogen 4	americium isotopes
UF	isotope shift	metallic hydrogen	americium 241
RT ∘	∘ effects	tritium	berkelium
	isotopes	iodine isotopes	californium
	radioactive isotopes	iodine 125	californium isotopes
		iodine 131	curium
isotope	ratios	iodine 132	curium isotopes
(adde	ed March 1995)	iridium isotopes	curium 242
UF	isotope abundance ratios	iron isotopes	curium 244
	isotopic analysis (quantitative)	iron 57	einsteinium
GS	composition (property)	iron 58	fermium
	isotope ratios	iron 59	lawrencium
	ratios	krypton isotopes	
	. isotope ratios	1 1 05	mendelevium
DT		krypton 85	neptunium
RT	atmospheric composition	lanthanum isotopes	neptunium neptunium isotopes
RT	cosmochemistry	lanthanum isotopes lead isotopes	neptunium neptunium isotopes nobelium
RT	cosmochemistry geochemistry	lanthanum isotopes lead isotopes lithium isotopes	neptunium neptunium isotopes nobelium plutonium
RT	cosmochemistry geochemistry geochronology	lanthanum isotopes lead isotopes lithium isotopes lutetium	neptunium neptunium isotopes nobelium plutonium plutonium isotopes
RT	cosmochemistry geochemistry geochronology interstellar chemistry	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes	neptunium neptunium isotopes nobelium plutonium plutonium isotopes plutonium 238
RT	cosmochemistry geochemistry geochronology interstellar chemistry meteoritic composition	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes magnesium isotopes	neptunium neptunium isotopes nobelium plutonium plutonium isotopes plutonium 238 plutonium 239
RT	cosmochemistry geochemistry geochronology interstellar chemistry	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes magnesium isotopes manganese isotopes	neptunium neptunium isotopes nobelium plutonium plutonium isotopes plutonium 238 plutonium 239 plutonium 240
	cosmochemistry geochemistry geochronology interstellar chemistry meteoritic composition stellar composition	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes magnesium isotopes manganese isotopes mercury isotopes	neptunium neptunium isotopes nobelium plutonium plutonium isotopes plutonium 238 plutonium 239 plutonium 240 plutonium 241
isotope	cosmochemistry geochemistry geochronology interstellar chemistry meteoritic composition stellar composition	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes magnesium isotopes manganese isotopes mercury isotopes molybdenum isotopes	neptunium neptunium isotopes nobelium plutonium plutonium isotopes plutonium 238 plutonium 240 plutonium 241 plutonium 244
	cosmochemistry geochemistry geochronology interstellar chemistry meteoritic composition stellar composition stellar composition separation atoms	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes magnesium isotopes marganese isotopes mercury isotopes molybdenum isotopes neodymium isotopes	neptunium neptunium isotopes nobelium plutonium plutonium isotopes plutonium 238 plutonium 240 plutonium 241 plutonium 244 sergenium
isotope	cosmochemistry geochemistry geochronology interstellar chemistry meteoritic composition stellar composition stellar composition separation atoms heavy ions	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes magnesium isotopes manganese isotopes mercury isotopes molybdenum isotopes neodymium isotopes neon isotopes	neptunium neptunium isotopes nobelium plutonium plutonium isotopes plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 sergenium tritium
isotope	cosmochemistry geochemistry geochronology interstellar chemistry meteoritic composition stellar composition separation atoms heavy ions ion exchanging	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes magnesium isotopes manganese isotopes mercury isotopes molydenum isotopes neodymium isotopes neon isotopes nickel isotopes	neptunium neptunium isotopes nobelium plutonium isotopes plutonium isotopes plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 sergenium tritium uranium 232
isotope	cosmochemistry geochemistry geochronology interstellar chemistry meteoritic composition stellar composition  separation atoms heavy ions ion exchanging ion extraction	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes magnesium isotopes manganese isotopes mercury isotopes molybdenum isotopes neodymium isotopes neon isotopes	neptunium neptunium isotopes nobelium plutonium plutonium isotopes plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 sergenium tritium
isotope	cosmochemistry geochemistry geochronology interstellar chemistry meteoritic composition stellar composition stellar composition separation atoms heavy ions ion exchanging ion extraction isotopes	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes magnesium isotopes manganese isotopes mercury isotopes molybdenum isotopes neodymium isotopes neon isotopes nickel isotopes nicbium isotopes niobium isotopes	neptunium neptunium isotopes nobelium plutonium plutonium isotopes plutonium 238 plutonium 240 plutonium 241 plutonium 244 sergenium tritium uranium 232 uranium 233 uranium 238
isotope	cosmochemistry geochemistry geochronology interstellar chemistry meteoritic composition stellar composition  separation atoms heavy ions ion exchanging ion extraction	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes magnesium isotopes manganese isotopes mercury isotopes mercury isotopes molybdenum isotopes neodymium isotopes neon isotopes nickel isotopes niobium isotopes niobium isotopes niobium isotopes nitrogen isotopes	neptunium neptunium isotopes nobelium plutonium isotopes plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 sergenium tritium uranium 232 uranium 233
isotope RT	cosmochemistry geochemistry geochronology interstellar chemistry meteoritic composition stellar compositio	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes magnesium isotopes margunese isotopes mercury isotopes mercury isotopes meodymium isotopes neodymium isotopes neon isotopes nickel isotopes niobium isotopes niobium 95 nitrogen isotopes nitrogen 15	neptunium neptunium isotopes nobelium plutonium plutonium isotopes plutonium 238 plutonium 249 plutonium 241 plutonium 244 sergenium tritium uranium 232 uranium 233 uranium 238 xenon 133 xenon 133
isotope RT	cosmochemistry geochemistry geochronology interstellar chemistry meteoritic composition stellar composition stellar composition separation atoms heavy ions ion exchanging ion extraction isotopes jet membrane process shift	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes magnesium isotopes manganese isotopes mercury isotopes mercury isotopes molybdenum isotopes neodymium isotopes neon isotopes nickel isotopes niobium isotopes niobium isotopes niobium isotopes nitrogen isotopes	neptunium neptunium isotopes nobelium plutonium isotopes plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 sergenium tritium uranium 232 uranium 233 uranium 238 xenon 133
isotope RT	cosmochemistry geochemistry geochronology interstellar chemistry meteoritic composition stellar compositio	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes magnesium isotopes manganese isotopes mercury isotopes molybdenum isotopes neodymium isotopes neodymium isotopes nickel isotopes nickel isotopes niobium isotopes niobium 95 nitrogen 15 nitrogen 16	neptunium neptunium isotopes nobelium plutonium isotopes plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 sergenium tritium uranium 232 uranium 233 uranium 238 xenon 133 xenon 135 zirconium 95
isotope RT	cosmochemistry geochemistry geochronology interstellar chemistry meteoritic composition stellar composition stellar composition separation atoms heavy ions ion exchanging ion extraction isotopes jet membrane process shift isotope effect	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes magnesium isotopes magnese isotopes mercury isotopes molybdenum isotopes neodymium isotopes neon isotopes nickel isotopes nichium isotopes niobium isotopes nitrogen isotopes nitrogen 15 nitrogen 16 nobelium isotopes	neptunium neptunium isotopes nobelium plutonium isotopes plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 sergenium tritium uranium 232 uranium 233 uranium 238 xenon 133 xenon 135 zirconium 95 radium isotopes
isotope RT isotope USE isotope	cosmochemistry geochemistry geochronology interstellar chemistry meteoritic composition stellar composition stellar composition separation atoms heavy ions ion exchanging ion extraction isotopes jet membrane process shift isotope effect	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes manganese isotopes mercury isotopes molybdenum isotopes neodymium isotopes neon isotopes nickel isotopes nicbium isotopes niobium isotopes niobium isotopes niobium isotopes niobium isotopes niobium isotopes nitrogen 15 nitrogen 16 nobelium isotopes nobelium isotopes	neptunium neptunium isotopes nobelium plutonium isotopes plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 sergenium tritium uranium 232 uranium 233 uranium 238 xenon 133 xenon 135 zirconium 95 radium 226
isotope RT isotope USE isotope	cosmochemistry geochemistry geochronology interstellar chemistry meteoritic composition stellar compositio	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes magnesium isotopes manganese isotopes mercury isotopes molybdenum isotopes neodymium isotopes neodymium isotopes nickel isotopes nickel isotopes niobium isotopes nitrogen isotopes nitrogen 15 nitrogen 16 nobelium isotopes osmium isotopes osmium isotopes osmium isotopes	neptunium neptunium isotopes nobelium plutonium isotopes plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 sergenium triitum uranium 232 uranium 233 uranium 238 xenon 133 xenon 135 zirconium 95 radium 226 radoun isotopes
isotope RT isotope USE isotope DEF element	cosmochemistry geochemistry geochemistry geochronology interstellar chemistry meteoritic composition stellar composition  separation atoms heavy ions ion exchanging ion extraction isotopes jet membrane process  shift isotope effect  ss Different forms of the same chemical	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes magnesium isotopes manganese isotopes mercury isotopes mercury isotopes neodymium isotopes neodymium isotopes nickel isotopes nickel isotopes niobium isotopes niobium isotopes nitrogen isotopes nitrogen 15 nitrogen 16 nobelium isotopes osmium isotopes osmium isotopes oxygen isotopes oxygen 17	neptunium neptunium isotopes nobelium plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 sergenium tritium uranium 232 uranium 233 uranium 233 uranium 235 xenon 133 xenon 135 zirconium 95 radium 226 radon isotopes radonisotopes rhenium isotopes
isotope RT isotope USE isotope DEF element trons in than one	cosmochemistry geochemistry geochronology interstellar chemistry meteoritic composition stellar composition  separation atoms heavy ions ion exchanging ion extraction isotopes jet membrane process  shift isotope effect  s  Different forms of the same chemical is that differ only by the number of neu- their nucleus. Most elements have more enaturally occurring isotope.	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes magnesium isotopes manganese isotopes mercury isotopes mercury isotopes neodymium isotopes neodymium isotopes neon isotopes nickel isotopes niobium isotopes niobium isotopes nitrogen isotopes nitrogen 15 nitrogen 16 nobelium isotopes osmium isotopes osmium isotopes oxygen 17 oxygen 18 palladium isotopes phosphorus isotopes	neptunium neptunium isotopes nobelium plutonium isotopes plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 sergenium tritium uranium 232 uranium 233 uranium 238 xenon 133 xenon 135 zirconium 95 radium 226 radon isotopes rhodium isotopes rhodium isotopes
isotope RT isotope USE isotope DEF element trons in	cosmochemistry geochemistry geochronology interstellar chemistry meteoritic composition stellar composition stellar composition separation atoms heavy ions ion exchanging ion extraction isotopes jet membrane process shift isotope effect ss Different forms of the same chemical t that differ only by the number of neu- their nucleus. Most elements have more	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes manganese isotopes mercury isotopes mercury isotopes neodymium isotopes neon isotopes nickel isotopes nichium isotopes nichium isotopes nitrogen isotopes nitrogen 15 nitrogen 16 nobelium isotopes osmium isotopes osmium isotopes oxygen 17 oxygen 18 palladium isotopes	neptunium neptunium isotopes nobelium plutonium plutonium isotopes plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 sergenium tritium uranium 232 uranium 233 uranium 238 xenon 133 xenon 135 zirconium 95 radium 226 radium 226 radium 226 radon isotopes rhedium isotopes rhodium isotopes rhodium isotopes rhodium isotopes
isotope RT isotope USE isotope DEF element trons in than one	cosmochemistry geochemistry geochronology interstellar chemistry meteoritic composition stellar composition  separation atoms heavy ions ion exchanging ion extraction isotopes jet membrane process  shift isotope effect  s  Different forms of the same chemical is that differ only by the number of neu- their nucleus. Most elements have more enaturally occurring isotope.	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes magnesium isotopes magnese isotopes mercury isotopes molybdenum isotopes neodymium isotopes neodymium isotopes nickel isotopes nickel isotopes niobium isotopes nitrogen isotopes nitrogen 15 nitrogen 16 nobelium isotopes osmium isotopes osmium isotopes oxygen isotopes oxygen isotopes oxygen isotopes oxygen 17 oxygen 18 palladium isotopes phosphorus isotopes phosphorus 32 platinum isotopes	neptunium neptunium isotopes nobelium plutonium isotopes plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 sergenium tritium uranium 232 uranium 233 uranium 238 xenon 133 xenon 135 zirconium 95 radium 256 radium 226 radium 226 radium 226 radium 226 radium 226 radium 250 radium 1500pes rubidium 1500pes rubidium 86 ruthenium isotopes samarium isotopes samarium isotopes samarium isotopes
isotope RT isotope USE isotope DEF element trons in than one	cosmochemistry geochemistry geochemistry geochronology interstellar chemistry meteoritic composition stellar composition stellar composition separation atoms heavy ions ion exchanging ion extraction isotopes jet membrane process shift isotope effect ss  Different forms of the same chemical that differ only by the number of neu- their nucleus. Most elements have more e naturally occurring isotope. chemical elements . nuclides . isotopes	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes magnesium isotopes manganese isotopes mercury isotopes molybdenum isotopes neodymium isotopes neon isotopes nickel isotopes nichium isotopes nichium isotopes nitrogen isotopes nitrogen 15 nitrogen 16 nobelium isotopes oxygen 17 oxygen 17 oxygen 18 palladium isotopes phosphorus isotopes phosphorus 32 platinum isotopes platinum isotopes platinum isotopes platinum isotopes platinum isotopes platinum isotopes	neptunium neptunium isotopes nobelium plutonium plutonium isotopes plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 sergenium tritium uranium 232 uranium 233 uranium 238 xenon 133 xenon 135 zirconium 95 radium isotopes radium 226 radon isotopes rhenium isotopes rhodium isotopes rubidium 86 ruthenium isotopes samarium isotopes
isotope RT isotope USE isotope DEF element trons in than one	cosmochemistry geochemistry geochronology interstellar chemistry meteoritic composition stellar composition stellar composition separation atoms heavy ions ion exchanging ion extraction isotopes jet membrane process shift isotope effect ss  Different forms of the same chemical ithat differ only by the number of neu- their nucleus. Most elements have more e naturally occurring isotope. chemical elements . nuclides . isotopes aluminum isotopes	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes magnesium isotopes manganese isotopes mercury isotopes molybdenum isotopes neodymium isotopes neon isotopes nickel isotopes nichium isotopes niobium isotopes niobium isotopes nitrogen isotopes nitrogen 15 nitrogen 16 nobelium isotopes oxygen 16 nobelium isotopes oxygen 17 oxygen 18 palladium isotopes phosphorus 32 phosphorus 32 ploinium isotopes polonium isotopes	neptunium neptunium isotopes nobelium plutonium plutonium isotopes plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 sergenium tritium uranium 232 uranium 233 uranium 233 uranium 238 xenon 135 zirconium 95 radium isotopes radium 226 radon isotopes radium isotopes rhodium isotopes rubidium 86 ruthenium isotopes rubidium 86 ruthenium isotopes samarium isotopes samarium isotopes scandium isotopes
isotope RT isotope USE isotope DEF element trons in than one	cosmochemistry geochemistry geochronology interstellar chemistry meteoritic composition stellar compositio	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes magnesium isotopes manganese isotopes mercury isotopes mercury isotopes molybdenum isotopes neon isotopes nicotopes nickel isotopes nichel isotopes niobium isotopes nitrogen isotopes nitrogen 15 nitrogen 16 nobelium isotopes oxygen 17 oxygen 18 palladium isotopes phosphorus isotopes phosphorus isotopes phosphorus 32 platinum isotopes polonium 208 polonium 208 polonium 209	neptunium neptunium isotopes nobelium plutonium 238 plutonium 239 plutonium 239 plutonium 241 plutonium 241 plutonium 244 sergenium tritium uranium 232 uranium 233 uranium 238 xenon 133 xenon 135 zirconium 95 radium isotopes radium isotopes radium isotopes rubidium isotopes rubidium 86 ruthenium isotopes rubidium 86 ruthenium isotopes sendium isotopes rubidium 86 ruthenium isotopes samarium isotopes samarium isotopes scandium isotopes scandium isotopes scandium isotopes scandium isotopes selenium isotopes
isotope RT isotope USE isotope DEF element trons in than one	cosmochemistry geochemistry geochronology interstellar chemistry meteoritic composition stellar composition stellar composition separation atoms heavy ions ion exchanging ion extraction isotopes jet membrane process shift isotope effect ss  Different forms of the same chemical ithat differ only by the number of neu- their nucleus. Most elements have more e naturally occurring isotope. chemical elements . nuclides . isotopes aluminum isotopes	lanthanum isotopes lead isotopes lithium isotopes lutetium lutetium isotopes magnesium isotopes manganese isotopes mercury isotopes molybdenum isotopes neodymium isotopes neon isotopes nickel isotopes nichium isotopes niobium isotopes niobium isotopes nitrogen isotopes nitrogen 15 nitrogen 16 nobelium isotopes oxygen 16 nobelium isotopes oxygen 17 oxygen 18 palladium isotopes phosphorus 32 phosphorus 32 ploinium isotopes polonium isotopes	neptunium neptunium isotopes nobelium plutonium plutonium isotopes plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 sergenium tritium uranium 232 uranium 233 uranium 233 uranium 238 xenon 135 zirconium 95 radium isotopes radium 226 radon isotopes radium isotopes rhodium isotopes rubidium 86 ruthenium isotopes rubidium 86 ruthenium isotopes samarium isotopes samarium isotopes scandium isotopes

sodium 22	dinate system moving with the mean motion 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
tantalum isotopes	invariant imbeddings	European space programs
technetium isotopes tellurium	Kolmogorov theory	<b>Italian space program</b> RT Italy
tellurium isotopes	magnetohydrodynamic turbulence turbulent flow	Orbiting Frog Otolith
terbium isotopes	turbulent now	SIRIO satellite
thallium isotopes	isotropism	
thorium isotopes	RT refractivity	Italy
thulium isotopes	symmetry	GS nations
tin isotopes		. Italy
titanium isotopes	isotropy	RT Adriatic Sea Alps Mountains (Europe)
tungsten isotopes uranium isotopes	DEF Having the same properties in all direc-	Europe
uranium 232	tions. Used for spatial isotropy.	Italian space program
uranium 233	UF spatial isotropy	San Marino
uranium 234	GS isotropy	Sicily
uranium 235	. isotropic media RT anisotropic fluids	SIRIO satellite
uranium 238	anisotropy	Vatican City
vanadium isotopes	Bragg angle	itching
xenon isotopes	crystal structure	RT contact dermatitis
xenon 129 xenon 133	crystallography	dermatitis
xenon 135	crystals	histamines
ytterbium isotopes	dendritic crystals	sensitivity
yttrium isotopes	directivity field strength	sensory perception
zinc isotopes	mechanical properties	iteration
zirconium isotopes	metallography	GS analysis (mathematics)
zirconium 95 RT atoms	optical properties	. numerical analysis
RT atoms heavy ions	∞ orientation	iteration
isotope effect	∞ physical properties	conjugate gradient method
isotope separation		iterative solution
isotopic enrichment	Israel	Newton methods
isotopic labeling	GS nations . <b>Israel</b>	Newton-Raphson method predictor-corrector methods
jet membrane process	RT Asia	RT multigrid methods
metals nuclear isobars	Israeli space program	probability theory
nuclei (nuclear physics)	Israeli spacecraft	problem solving
		processing.
radioactive materials		-
radioactive materials	Israeli space program	iterative networks
radioactive materials isotopic analysis (quantitative)	Israeli space program (added March 1989)	iterative networks GS circuits
radioactive materials	Israeli space program (added March 1989) GS programs	iterative networks
radioactive materials  isotopic analysis (quantitative) USE isotope ratios	Israeli space program (added March 1989) GS programs space programs	iterative networks GS circuits . iterative networks
radioactive materials isotopic analysis (quantitative)	Israeli space program (added March 1989) GS programs	iterative networks GS circuits . iterative networks networks
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	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
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	Israeli space program (added March 1989) GS programs space programs Israeli space program RT Israel	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	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 (added May 1993)	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.  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) . 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	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	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  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 iteration problem solving iterative solution problem solving 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  isotopic 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  Israeli spacecraft (added May 1993) RT Israel Israeli space program ∞ spacecraft  ISRO UF Indian Space Research Organization	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	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 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 Organization GS organizations	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 citerative solution  RT asymptotic methods Cholesky factorization conjugate gradient method finite element method ill-posed problems (mathematics) multigrid 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  isotopic labeling	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 Organization GS organizations . ISRO	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
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 Organization 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 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  igenty 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 Organization 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 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 Organization 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 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 Newton methods predictor-corrector 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	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 Organization 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, bordering on both sides by water, connecting two larger land areas, such as peninsulas and the mainland or two continents (Isthmus of Panama). GS land	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 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 . solid state devices . semiconductor (materials)
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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	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 Organization GS organizations . ISRO RT India 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, bordering on both sides by water, connecting two larger land areas, such as peninsulas and the mainland or two continents (Isthmus of Panama). GS land . isthmuses landforms . isthmuses RT geology oceanography	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 . ITO (semiconductors) semiconductors (materials) . metal oxide semiconductors . ITO (semiconductors) RT charge coupled devices charge transfer devices CMOS
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 Organization 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, bordering on both sides by water, connecting two larger land areas, such as peninsulas and the mainland 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 Newton 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 ITO (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 .... ITOS 4 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 USE 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 integi	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 <b>J integral</b>	J-52 engine	jet engines
	. real variables	GS engines	turbojet engines <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 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	engines	J-57 engine	J-71 engine
	. rocket engines	GS engines	. turbine engines
	liquid propellant rocket engines hydrogen oxygen engines	. air breathing engines	gas turbine engines
	J-2 engine	gas turbine engines	jet engines turbojet engines
RT	Ares 1 upper stage	jet engines	J-71 engine
	Ares 5 cargo launch vehicle	turbojet engines	
	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 jet engines	YJ73 turbojet engine
		turbojet engines	GS engines
J-33 en	<del>-</del> .	J-57 engine	. air breathing engines
GS	engines	. turbine engines	gas turbine engines
	<ul><li>. air breathing engines</li><li> gas turbine engines</li></ul>	gas turbine engines	jet engines turbojet engines
	jet engines	jet engines	J-73 engine
	turbojet engines	turbojet engines	. internal combustion engines
	J-33 engine	J-57 engine	gas turbine engines
	. internal combustion engines	RT afterburning	jet engines
	gas turbine engines	J-58 engine	turbojet engines
	jet engines	GS engines	J-73 engine
	turbojet engines	air breathing engines	. turbine engines
	J-33 engine	gas turbine engines	gas turbine engines
	<ul><li>turbine engines</li><li>. gas turbine engines</li></ul>	jet engines	jet engines turbojet engines
	jet engines	turbojet engines	J-73 engine
	turbojet engines	J-58 engine	o ro ongo
	J-33 engine	. aircraft engines <b>J-58 engine</b>	J-75 engine
	turbomachinery	. internal combustion engines	GS engines
	. J-33 engine	gas turbine engines	. air breathing engines
RT	Mace missiles	jet engines	gas turbine engines
		turbojet engines	jet engines
J-34 en		J-58 engine	turbojet engines
UF GS	XJ-34-WE-32 engine	. turbine engines	J-75 engine . internal combustion engines
us	engines . air breathing engines	gas turbine engines	. gas turbine engines
	gas turbine engines	jet engines	jet engines
	jet engines	turbojet engines <b>J-58 engine</b>	turbojet engines
	turbojet engines	0-30 engine	J-75 engine
	J-34 engine	J-65 engine	. turbine engines
	. internal combustion engines	GS engines	gas turbine engines
	gas turbine engines	. air breathing engines	jet engines
	jet engines	gas turbine engines	turbojet engines
	turbojet engines <b>J-34 engine</b>	jet engines	J-75 engine
	. turbine engines	turbojet engines	L70 angino
	gas turbine engines	<b>J-65 engine</b> . internal combustion engines	<b>J-79 engine</b> UF <i>XJ-79-GE-1 engine</i>
	jet engines	. gas turbine engines	YJ-79 engine
	turbojet engines	jet engines	GS engines
	J-34 engine	turbojet engines	. air breathing engines
		J-65 engine	gas turbine engines
J-47 en	gine	. 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 turbojet engines	<b>J-65 engine</b> RT A-4 aircraft	gas turbine engines jet engines
	J-47 engine	III A-7 alluall	turbojet engines
	. internal combustion engines	J-69-T-25 engine	J-79 engine
	. gas turbine engines	UF Marbore 2 engine	turbine engines
	jet engines	GS engines	gas turbine engines
	turbojet engines	. air breathing engines	jet engines

. . . . turbojet engines cooling RT Caribbean region . . J-79 engine coverings heating RT F-4 aircraft James Webb Space Telescope insulation (added October 2003) DEF Orbiting infrared observatory com-J-85 engine linings YJ-85 engine prised of an optical telescope element, intesheaths engines grated science instrument module, and a space . air breathing engines jacking equipment support module. Successor telescope to the . . gas turbine engines USE jacks (lifts) Hubble Space Telescope. . . . jet engines JWST (observatory) . . . . turbojet engines artificial satellites jacks . . . . . J-85 engine (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) . scientific satellites SN . internal combustion engines . . astronomical satellites . . gas turbine engines . James Webb Space Telescope RT electric connectors . . . jet engines observatories elevators (lifts) . . . . turbojet engines . astronomical observatories jacks (lifts) . . J-85 engine . . astronomical satellites . turbine engines . James Webb Space Telescope jacks (electrical) . . gas turbine engines telescopes USE electric connectors . . . jet engines . spaceborne telescopes . . . turbojet engines James Webb Space Telescope . J-85 engine jacks (lifts) Hubble Space Telescope infrared astronomy UF jacking equipment Blue Goose missile RT ∞ jacks Osprey missile infrared telescopes ∞ lifts Next Generation Space Telescope J-93 engine positioning devices (machinery) project J93-MJ252H engine tunneling (excavation) spaceborne astronomy J93-MJ280G engine YJ-93 engine YJ-93-GE-3 engine jammers Jacobi integral analysis (mathematics) RT air defense real variables jamming engines . air breathing engines . Jacobi integral radar equipment . . gas turbine engines conformal mapping radio equipment . . . jet engines diffusion theory elliptic functions . . . . turbojet engines Intentional transmission or reradiation ... J-93 engine Green's functions of radio signals in such a way as to interfere with potential theory . internal combustion engines reception of desired signals by the intended . . gas turbine engines Weierstrass functions . . . jet engines receiver. GS . . . . turbojet engines countermeasures Jacobi matrix method . jamming . . J-93 engine GS analysis (mathematics) electromagnetic interference . turbine engines . real variables . . gas turbine engines jamming . Jacobi matrix method RT ... jet engines calculus of variations clutter . . . turbojet engines electronic countermeasures eigenvalues . . . . . J-93 engine electronic warfare eigenvectors Hermitian polynomial frequency hopping J93-MJ252H engine methodology ∞ interference USE J-93 engine jammers radio frequency interference Jacobi polynomials J93-MJ280G engine space-time adaptive processing USE hypergeometric functions USE J-93 engine white noise Jaguar aircraft J-97 engine Janus GS attack aircraft engines DEF One of the natural satellites of Saturn. . fighter aircraft . air breathing engines GS celestial bodies Jaquar aircraft . . gas turbine engines . natural satellites single engine aircraft . . Saturn satellites . . . jet engines Jaguar aircraft . . . . turbojet engines . Janus supersonic aircraft . . . . . turbofan engines Saturn (planet) Jaguar aircraft . J-97 engine RT ∞ aircraft . aircraft engines Janus Reactor Breguet aircraft ∞ military aircraft . J-97 engine nuclear reactors . nuclear research and test reactors . internal combustion engines . . Janus Reactor . . gas turbine engines Jaguar rocket vehicle . . . jet engines Jabiru rocket vehicle . . . . turbojet engines Janus spacecraft rocket vehicles GS gliders . . . . turbofan engines . multistage rocket vehicles Janus spacecraft . J-97 engine . Jaguar rocket vehicle . turbine engines lifting bodies . sounding rockets . lifting reentry vehicles . . gas turbine engines Jaguar rocket vehicle . . . jet engines ... Janus spacecraft solid propellant rocket engines maneuverable spacecraft .... turbojet engines . . . . turbofan engines Janus spacecraft ..... J-97 engine Jahn-Teller effect manned spacecraft The effect whereby, except for linear . Janus spacecraft molecules, degenerate orbital states in molreentry vehicles Jabiru rocket vehicle ecules are unstable. . maneuverable reentry bodies USE Jaguar rocket vehicle RT ∞ effects . . lifting reentry vehicles electron paramagnetic resonance Janus spacecraft jackets SN (EXCLUDES CLOTHING)
DEF Coverings or casings of some kind.
Specifically, a shell around the combustion electron transitions soft landing spacecraft orbitals . Janus spacecraft chamber of a liquid fuel rocket, through which Jamaica Japan the propellant is circulated in regenerative coollandforms GS landforms GS ing. Coatings of one material over another to . islands . islands . . Pacific islands prevent damage such as oxidation or microme-. . West Indies teroid penetration. . Jamaica . Japan absorbers (materials)

nations

Jamaica

nations

. 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 GS programs . GA-5 aircraft 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 Kibo Japanese Experiment Module . IL-86 aircraft automobiles USF meteorological satellites . IL-96 aircraft ∞ research projects . jet provost aircraft ierboas satellite design . Jetstream aircraft GS animals space missions . vertebrates . Jindivik target aircraft space transportation . L-29 jet trainer . . mammals ∞ spacecraft . . . rodents . L-1011 aircraft spacecraft design . L-2000 aircraft . . . . mice Tenma satellite . Lear jet aircraft . MD 11 aircraft . . . . . jerboas MD 80 aircraft Japanese spacecraft iet aircraft DEF Spacecraft operated by the Japanese government. Used for MOS (Japanese spacejet flight turbojet aircraft **jet aircraft** . Mirage aircraft . . Mirage 3 aircraft . Mystere 50 aircraft . Nord 1500 aircraft ÚF MOS (Japanese spacecraft) A-2 aircraft . P-308 aircraft . PD-808 aircraft Japanese spacecraft GS A-3 aircraft . EXOS satellites . A-4 aircraft EXOS-A satellite A-5 aircraft S-3 aircraft SC-1 aircraft . . EXOS-B satellite A-6 aircraft . . EXOS-C satellite Scimitar aircraft Alpha jet aircraft AVRO 707 aircraft EXOS-D satellite T-2 aircraft . T-33 aircraft . T-37 aircraft **Engineering Test Satellites** B-1 aircraft . Ginga satellite B-2 aircraft Nozomi Mars Orbiter B-47 aircraft . T-38 aircraft Tenma satellite B-52 aircraft T-39 aircraft B-57 aircraft . TS-11 aircraft Japan Japanese space program B-58 aircraft . TSR-2 aircraft ∞ spacecraft B-66 aircraft . TU-104 aircraft B-70 aircraft . TU-124 aircraft Boeing 747 aircraft . TU-154 aircraft jarring Boeing 777 aircraft . TU-204 aircraft mechanical shock 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 . C-9 aircraft attack aircraft Boeing 720 aircraft C-135 aircraft . fighter aircraft C-140 aircraft . . Boeing 727 aircraft . JAS-39 aircraft Boeing 733 aircraft
Boeing 737 aircraft Canberra aircraft RT ∞ aircraft CL-41 aircraft canard configurations Boeing 757 aircraft Boeing 767 aircraft CL-823 aircraft Sweden Comet 4 aircraft CV-880 aircraft C-141 aircraft JATO engines CL-600 challenger aircraft D-558 aircraft Concorde aircraft CV-990 aircraft jet assisted takeoff DC 9 aircraft engines DC 10 aircraft JATO engines DH 112 aircraft DC 8 aircraft . . DH 121 aircraft DH 115 aircraft launchers . 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 IL-62 aircraft takeoff A-310 aircraft . . A-320 aircraft Mystere 20 aircraft A-330 aircraft P-1127 aircraft Java (programming language) A-340 aircraft P-1154 aircraft (added December 1998) A-380 aircraft Saab 37 aircraft languages Saab 105 aircraft F-2 aircraft . programming languages F-4 aircraft SE-210 aircraft . high level languages F-8 aircraft . . TU-134 aircraft Java (programming language) F-9 aircraft . . TU-144 aircraft C++ (programming language) F-14 aircraft . turboprop aircraft client server systems . F-15 aircraft . . AN-22 aircraft internets F-16 aircraft AN-24 aircraft object-oriented programming . F-17 aircraft . . Argosy MK-1 aircraft World Wide Web . 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 F-89 aircraft . . C-133 aircraft Javelin rocket vehicle 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 solid propellant rocket engines . F-105 aircraft

. . E-2 aircraft

Electra aircraft	nozzle walls	combustion of their fuel (or outside air for heat-
F-27 aircraft	jet assisted takeoff	ing, as in the case of the nuclear jet engine),
G-222 aircraft HS-748 aircraft	USE <b>JATO engines</b>	distinguished in this sense from a rocket engine.
MH-262 aircraft	00_ <b>00g0</b>	Jet engines of this kind may have compressors, commonly turbine driven, to take in and com-
OV-1 aircraft	jet augmented wing flaps	press air (turbojets), or they may be compres-
OV-10 aircraft	USE jet flaps	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 YS-11 aircraft	RT ∞ blasts	. air breathing engines
. U-2 aircraft	∞ effects	gas turbine engines
. Valiant aircraft	exhaust gases	jet engines
. Vampire MK 35 aircraft	ground effect (aerodynamics) noise (sound)	ramjet engines
. VC-10 aircraft	pressure effects	integral rocket ramjets low volume ramjet engines
. Victor MK-1 aircraft	temperature effects	pulsejet engines
. VJ-101 aircraft . Vulcan aircraft		supersonic combustion ramjet
. X-3 aircraft	jet boundaries	engines
. X-5 aircraft	GS boundaries	turboramjet engines
. X-13 aircraft	. fluid boundaries <b>jet boundaries</b>	turbojet engines Bristol-Siddeley Olympus 593
. X-14 aircraft	interfaces	engine
. X-21 aircraft	. fluid boundaries	Bristol-Siddeley Viper engine
. X-21A aircraft . X-31 aircraft	jet boundaries	ducted fan engines
. 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 J-57 engine
. XV-5 aircraft	GS condensers (liquefiers)	J-58 engine
. XV-9A aircraft . Yak 40 aircraft	jet condensers	J-65 engine
RT ∞ aircraft	RT ∞ condensers	J-69-T-25 engine
aircraft noise	liquefaction	J-71 engine
attack aircraft	nucleation spray condensers	J-73 engine
bomber aircraft	working fluids	J-75 engine
cargo aircraft	Tomang nation	J-79 engine J-85 engine
commercial aircraft	jet control	J-93 engine
fighter aircraft flying platforms	RT automatic control	RA-28 engine
general aviation aircraft	boundary layer control	turbofan engines
hypersonic aircraft	∞ control directional control	Bristol-Siddeley BS 53 engine
∞ jets	satellite attitude control	CF-700 engine
∞ low wing aircraft	satellite control	convertible fan-shaft engines J-97 engine
∞ military aircraft	thrust control	TF-30 engine
passenger aircraft	variable thrust	TF-34 engine
reconnaissance aircraft research aircraft	iot damnina	TF-41 engine
short takeoff aircraft	jet damping USE damping	turboprop engines
∞ subsonic aircraft	spin reduction	T-34 engine
supersonic aircraft	•	T-38 engine T-53 engine
tailless aircraft	Jet Dragon aircraft	T-55 engine
tandem wing aircraft	USE DH 125 aircraft	T-56 engine
training aircraft transport aircraft	jet drive	T-63 engine
turbojet engines	USE jet propulsion	T-64 engine
V/STOL aircraft		T-74 engine
∞ winged vehicles	jet engine fuels	T-76 engine T-78 engine
YF-12 aircraft	UF jet fuels	turboramjet engines
iet aircraft noise	GS fuels . chemical fuels	. internal combustion engines
UF jet noise	hydrocarbon fuels	gas turbine engines
GS elastic waves	jet engine fuels	jet engines
. sound waves	JP-4 jet fuel	ramjet engines
noise (sound)	JP-5 jet fuel	integral rocket ramjets
aircraft noise	JP-6 jet fuel	low volume ramjet engines pulsejet engines
jet aircraft noise	JP-7 jet fuel JP-8 jet fuel	supersonic combustion ramjet
RT acoustic retrofitting aerodynamic noise	liquid fuels	engines
∞ aircraft	jet engine fuels	turboramjet engines
aircraft runup	JP-4 jet fuel	turbojet engines
engine noise	JP-5 jet fuel	Bristol-Siddeley Olympus 593
mufflers	JP-6 jet fuel	engine Priotol Siddolov Vinor angina
noise measurement	JP-7 jet fuel	Bristol-Siddeley Viper engine ducted fan engines
noise reduction quiet engine program	JP-8 jet fuel RT aircraft fuels	J-33 engine
screech tones	antimisting fuels	J-34 engine
sonic booms	gasoline	J-47 engine
	kerosene	J-52 engine
jet airstreams	turbines	J-57 engine
USE jet streams (meteorology)	iot anginos	J-58 engine J-65 engine
jet amplifiers	jet engines SN (EXCLUDES HYDROJET ENGINES)	J-65 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	their thrust by reaction to the ejection. Specifi-	J-75 engine
jet amplifiers	cally, aircraft engines that derive all or most of	J-79 engine
RT Coanda effect	their thrust by reaction to their ejection of com-	J-85 engine
fluid jets ∞ jet nozzles	bustion products (or heated air) in a jet and that obtains oxygen from the atmosphere for the	J-93 engine RA-28 engine
jot	ongoth from the damoophere for the	III Lo origino

turbofan engines		thrust		jet lift
Bristol-Siddeley BS 53 engine				dynamic characteristics
CF-700 engine	jet exha			. lift
convertible fan-shaft engines	UF	hot jet exhaust		jet lift
J-97 engine	RT	base heating	RT	distribution (property)
TF-30 engine		exhaust emission		
TF-34 engine		exhaust gases	jet men	nbrane process
		infrared suppression	DEF	Method for separating or enriching iso
TF-41 engine		rocket exhaust	topes of	f the same element by using a condens
turboprop engines				por as the carrier fluid. A process gas
T-34 engine	jet flame	9S		ng the isotopes enters a chamber into
T-38 engine	USE	flames		heavy condensable gas (the jet) flows
T-53 engine		jet flow		hter of the two isotopes is enriched
T-55 engine		•		to the heavier species, and is collected
T-56 engine	jet flaps	<b>3</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)	ao	. isotopic enrichment
=		. jet flaps		
T-76 engine		control surfaces	DT	jet membrane process
T-78 engine		. flaps (control surfaces)	RT	0 ,
turboramjet engines		. jet flaps		isotope separation
. turbine engines	DT			isotopes
gas turbine engines	RT	externally blown flaps		jet flow
jet engines		H-126 aircraft		membranes
ramjet engines		short takeoff aircraft	۰	o processes
integral rocket ramjets		split flaps		uranium
,		tangential blowing		
low volume ramjet engines		trailing edge flaps	jet mixi	ng flow
pulsejet engines		vortex flaps	GS	fluid flow
supersonic combustion ramjet		wing flaps		. jet flow
engines				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			
Bristol-Siddeley Viper engine	UF	hot jets		injectors
ducted fan engines	0.	jet flames	٥	∘ jets <sub>.</sub>
J-33 engine		laminar jets		mixing
J-34 engine				mixing layers (fluids)
	00	reaction jets		premixing
J-47 engine	GS	fluid flow		screech tones
J-52 engine		jet flow		two dimensional jets
J-57 engine		air jets		
J-58 engine		jet mixing flow	jet noise	e
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	2012
J-73 engine		free boundaries	SN	(USE OF A MORE SPECIFIC TERM IS
J-75 engine		free jets	OIN	RECOMMENDEDCONSULT THE TERMS
J-79 engine		gas streams		LISTED BELOW)
J-85 engine		hydraulic jets	RT	carburetors
J-93 engine		injectors		conical nozzles
RA-28 engine		jet membrane process		exhaust diffusers
turbofan engines	~	e jets		exhaust nozzles
Bristol-Siddeley BS 53 engine		nozzle flow		fuel injection
CF-700 engine		particle laden jets		injectors
convertible fan-shaft engines		spanwise blowing		jet amplifiers
		·		jet engines
J-97 engine		two dimensional jets		skirts
TF-30 engine TF-34 engine		vapor jets		Oran to
•		wall jets	iot nilot	2
TF-41 engine			jet pilot	
turboprop engines	jet fuels		USE	aircraft pilots
T-34 engine	USE	jet engine fuels	• . •	1.1.
T-38 engine			jet prop	
T-53 engine		ngement	UF	jet drive
T-55 engine	GS	impingement	GS	propulsion
T-56 engine		. jet impingement		. 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
aircraft engines	ao	. jet lag		tarbineo
combustion chambers		disorientation	iet pro	ost aircraft
			Jet prov UF	
ejectors		. jet lag	UF	Hunting P-84 aircraft
engine starters		psychological effects	00	P-84 aircraft
exhaust nozzles	CT	. 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				. jet provost aircraft
		rhythm (biology)		. Jos process amorais
helicopter engines		rhythm (biology) supersonic flight		jet aircraft
helicopter engines hybrid propellant rocket engines				
hybrid propellant rocket engines	jet lift			jet aircraft . jet provost aircraft
hybrid propellant rocket engines hybrid propulsion	jet lift GS	supersonic flight		jet aircraft . jet provost aircraft monoplanes
hybrid propellant rocket engines hybrid propulsion infrared suppression	<b>jet lift</b> GS	supersonic flight aerodynamic characteristics		jet aircraft . jet provost aircraft monoplanes . jet provost aircraft
hybrid propellant rocket engines hybrid propulsion infrared suppression ∞ jet nozzles		supersonic flight aerodynamic characteristics . lift		jet aircraft . jet provost aircraft monoplanes . jet provost aircraft single engine aircraft
hybrid propellant rocket engines hybrid propulsion infrared suppression ∞ jet nozzles quiet engine program		supersonic flight aerodynamic characteristics . lift jet lift		jet aircraft . jet provost aircraft monoplanes . jet provost aircraft single engine aircraft . jet provost aircraft
hybrid propellant rocket engines hybrid propulsion infrared suppression ∞ jet nozzles		supersonic flight aerodynamic characteristics . lift		jet aircraft . jet provost aircraft monoplanes . jet provost aircraft single engine aircraft

RT

RT ·	∞ aircraft		jet flow	RT	wind (meteorology)
144			jet mixing flow	lindivile	target sirereft
<b>jet pun</b> SN	(EXCLUDES DEVICES USING A LIQUID		jet pumps plasma jets		target aircraft drone vehicles
OIV	OR GAS TO INDUCE MOVEMENT OF A		sprayers	GG.	. drone aircraft
GS	GAS SUCH AS AIR EJECTORS) pumps		turbulent jets		target drone aircraft
ao	. jet pumps		two dimensional jets		Jindivik target aircraft
RT	ejectors		wall jets		jet aircraft
	fuel pumps				. Jindivik target aircraft monoplanes
	∞ jets	Jetstrea GS	am aircraft		. Jindivik target aircraft
•	∞ pumping	dS	commercial aircraft . Jetstream aircraft		pilotless aircraft
	turbine pumps vacuum pumps		Grumman aircraft		. drone aircraft
	vaodam pampo		. Jetstream aircraft		target drone aircraft
	r aircraft		jet aircraft		Jindivik target aircraft targets
USE	C-140 aircraft		. Jetstream aircraft		. Jindivik target aircraft
iot etro	ams (meteorology)		passenger aircraft . Jetstream aircraft	RT ∝	aircraft
	Strong bands of wind or winds in the	RT •	o aircraft		remotely piloted vehicles
	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	002	Tibia.ion
nour. U	lsed for jet airstreams.  jet airstreams			jobs	
GS	fluid flow		systems	USE	tasks
ao	. gas flow	RT	bailout ejection	lodrell	Bank Observatory
	air flow		ejection seats		A large radio telescope, located nea
	air currents		escape (abandonment)		ster, England.
	jet streams (meteorology)		escape systems	GS	observatories
	mesoscale phenomena		jettisoning	5.7	Jodrell Bank Observatory
	. jet streams (meteorology) wind (meteorology)	٥	systems	RT	astronomical observatories
	. winds aloft		wing tanks		ground stations radio telescopes
	jet streams (meteorology)	jettison	ina		tracking stations
RT	air jets	RT	bailout		3
	atmospheric circulation		disposal		on Island
	circumpolar westerlies clear air turbulence		dumping	GS	landforms
	Coanda effect		ejection		. islands Pacific islands
	fluid jets		emptying escape (abandonment)		Johnston Island
	free boundaries		expulsion		
	turbulent jets		jettison systems	joined v	
	zonal flow (meteorology)		spilling	GS	airfoils
jet thru	ıst				. wings <b>joined wings</b>
•	The thrust of a fluid, especially as	JF 101		RT	aircraft configurations
	ised from the thrust of a propeller. Used	USE	F-101 aircraft		dual wing configurations
	ction jets.	JFET			research aircraft
UF GS	reaction jets thrust	DEF	Junction field effect transistors in		tandem wing aircraft
do	. jet thrust		emiconductor channels of low conductiv-		wing tips
RT	cold gas	ity join t	he source and drain and in which these	∞ joining	
	convertible fan-shaft engines		s are reduced and cut off by the junction	SN	(USE OF A MORE SPECIFIC TERM IS
	high thrust		n regions, which reduce the conductivity		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)
	low thrust		use a voltage to be applied between the ectrodes. Used for junction field effect	UF	interconnection
	microthrust rocket thrust	transisto			linking
	static thrust		junction field effect transistors	RT	adhesion
	thrust loads	GS	electronic equipment		adhesive bonding assembling
	variable thrust		. solid state devices		beam leads
			semiconductor devices transistors		binding
jet van DFF	es Vanes either fixed or movable, used in		field effect transistors		bonding
	ream, especially in the jetstream of a		JFET		brazing
rocket,	for purposes of stability or control under		junction transistors		cold working couplings
	ons where external aerodynamic controls	DT	JFET		crosslinking
	ffective. Also called blast vane.		barrier layers ∘ junctions		fitting
GS	control surfaces . guide vanes	0	Junctions		fusion (melting)
	jet vanes	jigs			inertia bonding
	vanes	GS	positioning devices (machinery)		joints (junctions)
	. guide vanes		. jigs		locking mooring
	jet vanes	RT	clamps		mounting
RT	airfoils thrust vector control		fixtures holders		positioning
	wall jets		mechanical devices		retaining
	10.0		tools		riveting
jetavate	ors				sealing sewing
USE	guide vanes	Jikiken			soldering
an into		USE	EXOS-B satellite		splicing
∞ <b>jets</b> SN	(USE OF A MORE SPECIFIC TERM IS				ultrasonic soldering
014	RECOMMENDEDCONSULT THE TERMS		ere balloons		welding
RT	LISTED BELOW) air jets	GS	expandable structures . inflatable structures		yokes
111	fluid jets		balloons	Joint E	uropean Torus
	free jets		high altitude balloons		nuclear reactors
	gas jets		jimsphere balloons		. tokamak devices
	injectors		meteorological balloons		Joint European Torus
	jet aircraft		jimsphere balloons		plasma generators

	. tokamak devices		tunnel junctions		. chemical fuels
ОТ	. Joint European Torus	laaanha	an tunnalina		hydrocarbon fuels
RI	controlled fusion reactor technology		on tunneling ed April 1999)		jet engine fuels
	reactor technology		Josephson effect		JP-7 jet fuel liquid fuels
		OOL	oosephson eneet		jet engine fuels
	anatomy)	Joukow	ski transformation		JP-7 jet fuel
GS	anatomy	RT	airfoil profiles	RT	JP-8 jet fuel
	. musculoskeletal system		complex variables		kerosene
	joints (anatomy)		coordinate transformations		
	elbow (anatomy) knee (anatomy)		Kutta-Joukowski condition	JP-8 jet	
	Wrist		Theodorsen transformation	GS	fuels
RT	arthritis	laula ha	acting		. chemical fuels
	bones	Joule he	ohmic dissipation		hydrocarbon fuels
	connective tissue	USL	resistance heating		jet engine fuels
	flexors		resistance neating		JP-8 jet fuel liquid fuels
	ligaments	Joule-T	homson effect		jet engine fuels
	shoulders	DEF	A change of temperature in a gas		JP-8 jet fuel
		undergo	ing Joule-Thomson expansion.	RT	JP-4 jet fuel
ioints (i	unctions)	RT	cryogenics		JP-6 jet fuel
UF	connections	~	effects		JP-7 jet fuel
0.	shanks		enthalpy		kerosene
GS	joints (junctions)		gas expansion		
	. bolted joints		gas flow	judgme	
	bonded joints		kinetic theory	RT	decision making
	. butt joints		ohmic dissipation		decisions
	. interference fit		thermodynamic properties		legal liability
	. lap joints		thermodynamics throttling		penalties
	. metal joints		unotung	Judi-Da	rt rocket
	soldered joints	iournal	bearings	GS	measuring instruments
	welded joints	DEF	Bearings that support the cylindrical	ao	. sondes
	spot welds	journal o	of a shaft in rotating machinery.		Judi-Dart rocket
	. riveted joints . scarf joints	GS	bearings		rocket vehicles
	. seams (joints)		. journal bearings		. sounding rockets
RT	adapters	RT	antifriction bearings		Judi-Dart rocket
	adhesives		foil bearings	RT	rocket sounding
	balls				
	barrier layers	∞ journals		juices	P 1
	bellows	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	GS	liquids
	bonding		LISTED BELOW)	DT	. juices
	clamped structures	RT	news media	RT	creatine
	closures		periodicals	jumpers	
	connectors		shafts (machine elements)		Short lengths of conductors used to
	corners	iournale	(documents)		e electrical circuits, usually temporary,
	couplings		periodicals		terminals, or bypassing an existing
	fasteners fillets	OOL	periodicais	circuit.	, ,,
	fittings	journals	(shafts)	GS	conductors
~	inungs pioining		shafts (machine elements)		. electrolytes
	iunctions		,		jumpers
	linkages	JP-4 jet		RT	connectors
	metal bonding	GS	fuels		short circuits
	sleeves		. chemical fuels	~	terminals
	structural members		hydrocarbon fuels		wire
	swivels		jet engine fuels	iunction	n diodes
	unions (connectors)		JP-4 jet fuel liquid fuels	GS	electronic equipment
			jet engine fuels	ao	. diodes
Jordan			JP-4 jet fuel		semiconductor diodes
GS	nations	RT	JP-6 jet fuel		junction diodes
	. Jordan	• • • • • • • • • • • • • • • • • • • •	JP-8 jet fuel		MIM diodes
			RP-1 rocket propellants		step recovery diodes
laudau	£				. solid state devices
Jordan GS	algebra	JP-5 jet			semiconductor devices
GS	. vector spaces	GS	fuels		junction diodes
	matrices (mathematics)		. chemical fuels		MIM diodes
	Jordan form		hydrocarbon fuels	DT	step recovery diodes
RT	eigenvalues		jet engine fuels	RT	barrier layers
	linear transformations		JP-5 jet fuel		Barritt diodes germanium diodes
	tensors		liquid fuels jet engine fuels		heterojunction devices
			JP-5 jet fuel		heterojunctions
			or -5 jet luei		tunnel diodes
	son effect	JP-6 jet	fuel		varactor diodes
UF	ed April 1999) Josephson tunneling	GS			
RT	electron tunneling		. chemical fuels	junction	field effect transistors
111	Josephson junctions		hydrocarbon fuels	USE	JFET
	SIS (superconductors)		jet engine fuels		
	superconducting devices		JP-6 jet fuel		transistors
	superconductors (materials)		liquid fuels	GS	electronic equipment
			jet engine fuels		. solid state devices
lee!	aan lumatiana	DT	JP-6 jet fuel		semiconductor devices
	son junctions	RT	JP-4 jet fuel		transistors
RT	high temperature superconductors Josephson effect		JP-8 jet fuel		JFET
	SIS (superconductors)	JP-7 jet	fuel	RT	barrier layers
	squid (detectors)		ed September 1995)	111	epitaxy
	superconductivity		fuels		ion implantation
					•

## junctions

∞ junctions . Jupiter (planet) ... Galileo probe MBM junctions Adrastea . . Galileo spacecraft RT 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 Carme Voyager 1977 mission Elara Europa Jupiter project In semiconductor devices, regions of Galilean satellites GS programs transition between semiconducting regions of . NASA programs Galileo probe different electrical properties. Galileo spacecraft . . NASA space programs RT connectors Ganymede ... Jupiter project intersections . projects Himalia **JFET** ... Jupiter project lo 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 Jupiter rings launch vehicles 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 USE tropical regions Shoemaker-Levy 9 comet surface properties Sinope Juno 1 launch vehicle topography 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 atmosphere . . Juno launch vehicles environments . . Juno 1 launch vehicle GS Jupiter (planet)
Jupiter atmosphere . extraterrestrial environments Explorer satellites . . planetary environments Jupiter C rocket vehicle Jupiter satellites ... planetary atmospheres liquid propellant rocket engines moonlets sergeant missiles ... Jupiter atmosphere planetary composition solid propellant rocket engines aerospace environments planetary structure Galileo project planetology geophysical fluid flow cells 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 Pioneer 7 space probe liquid propellant rocket engines ... 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 . . Juno launch vehicles Jupiter C rocket vehicle . . Thebe liquid propellant rocket engines . . . Juno 1 launch vehicle 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)
USE James Webb Space Telescope GS celestial bodies unmanned spacecraft . planets . space probes

. . Jupiter probes

. . gas giant planets

K hand RT ∞ aircraft RT solid propellant rocket engines USE extremely high frequencies Kappa rocket vehicles Kaman UH-2A helicopter GS rocket vehicles USE **UH-2** helicopter K lines . multistage rocket vehicles . . Kappa rocket vehicles spectra Kampuchea . radiation spectra ... Kappa 8 rocket vehicle USE Cambodia ... Kappa 9 rocket vehicle electromagnetic spectra ... line spectra . sounding rockets Kansas ... K lines . . Kappa rocket vehicles GS nations RT absorption spectra Kappa 8 rocket vehicle emission spectra . United States Kappa 9 rocket vehicle Kansas H lines RT solid propellant rocket engines RT Missouri River (US) ∞ vehicles K stars kappa-epsilon turbulence model kaolinite GS celestial bodies A hydrous silicate of aluminum. It con-USE k-epsilon turbulence model . stars stitutes the principle mineral in kaolin. . . late stars kappa-omega turbulence model (added June 1997) GS aluminum compounds . . . cool stars . aluminum silicates . . K stars . . kaolinite USE k-omega turbulence model RT dwarf stars clays giant stars Kapton (trademark) . kaolinite main sequence stars GS nitrogen compounds minerals stellar spectra . amides . kaolinite supergiant stars . . polyimides silicon compounds . . . Kapton (trademark) polymeric films . silicates . . aluminum silicates KA band Kapton (trademark) . . kaolinite USE extremely high frequencies aluminum oxides RT ∞ films plastics ion exchanging ∞ polymers soils Kakutani theorem GS theorems Karhunen-Loeve expansion Kakutani theorem kaon production data processing
. Karhunen-Loeve expansion particle production lattices (mathematics) stochastic processes kaon production expansion kaons vector spaces . Karhunen-Loeve expansion particle accelerators RT principal components analysis Kalahari Basin (Africa) kaons Karl Fischer reagent GS landforms k-mesons chemical tests . structural basins GS particles . chemical analysis . Kalahari Basin (Africa) . elementary particles . Karl Fischer reagent Africa . . bosons dioxides deserts ... mesons methyl alcohol Republic of South Africa . . . . kaons pyridines . . hadrons quantitative analysis . . . mesons Kalman filters . . . . kaons Karman vortex street linear filters GS . nuclear particles DEF A double trail of vortices formed alter-. Kalman filters . . bosons nately on both sides of a cylinder of similar body electric filters ... mesons moving at right angles to its axis through a fluid, ∞ filters . . . kaons the vortices in one row rotating in a direction linear quadratic Gaussian control baryons opposite to that of the other row. (After Theodore linear quadratic regulator charged particles von Karman, 1881-1963, Hungarian born Amerinavigation aids kaon production can scientist). optimization pions GS vortex streets reduced order filters Pomeranchuk theorem . Karman vortex street state estimation aeolian tones subsonic flow Kapitza resistance Kalman-Schmidt filtering Von Karman equation RT ∞ resistance vorticity equations RT ∞ applications of mathematics feedback control Kapoeta achondrite inertial platforms Karman-Bodewadt flow GS celestial bodies GS fluid flow navigation instruments optimal control . meteorites . axisymmetric flow . . stony meteorites .. Karman-Bodewadt flow optimization ... achondrites . parallel flow remote control .... Kapoeta achondrite . . three dimensional flow stochastic processes ... Karman-Bodewadt flow time series analysis Kappa 8 rocket vehicle . viscous flow GS rocket vehicles . . Karman-Bodewadt flow . multistage rocket vehicles translational motion kamacite . . Kappa rocket vehicles alloys . three dimensional motion GS ... Kappa 8 rocket vehicle . nickel alloys . . three dimensional flow . sounding rockets . . Karman-Bodewadt flow . kamacite . . Kappa rocket vehicles rotating disks minerals Kappa 8 rocket vehicle rotating fluids kamacite solid propellant rocket engines RT iron alloys karst iron meteorites Kappa 9 rocket vehicle meteoritic composition landforms . structural basins GS rocket vehicles . multistage rocket vehicles . . karst Kaman aircraft . . Kappa rocket vehicles . . . sinkholes Kappa 9 rocket vehicle GS Kaman aircraft caves . H-43 helicopter . sounding rockets cavities

. . Kappa rocket vehicles

... Kappa 9 rocket vehicle

. HH-43 helicopter . UH-2 helicopter

kettles (geology)

∞ ridges

14.	rocks		space mechanics orbital mechanics		polarized electromagnetic radiation polarizers
	aki aircraft		Kepler laws	W	
RI «	∞ aircraft	k-oneilo	n turbulence model	∞ Kerr effe	
Kazakh	nstan		ed September 1988)		(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS
	led August 1993)		kappa-epsilon turbulence model	DT	LISTED BELOW) effects
GS	nations	GS	models		electro-optical effect
RT	. <b>Kazakhstan</b> Asia		. mathematical models		Kerr electrooptical effect
ΠI	Asia		turbulence models k-epsilon turbulence model		Kerr magnetooptical effect
KC-130	) aircraft	RT	closure law		magnetic fields
USE	C-130 aircraft		computational fluid dynamics	V	-tuti1 -fft
VC 100	5 aircraft		flow equations		ctrooptical effect electromagnetic properties
	C-135 aircraft		k-omega turbulence model		optical properties
002	o roo anoran		turbulent boundary layer turbulent flow		birefringence
keels			turbulent flow		Kerr electrooptical effect
GS	hydrofoils	keratins	•		refraction
RT	. <b>keels</b> boats	GS	biopolymers		. birefringence Kerr electrooptical effect
	hulls (structures)		. proteins		effects
	longerons		keratins		electromagnetic radiation
	ships		organic compounds . proteins		electro-optics
	stabilizers (fluid dynamics)		keratins		Kerr effects
KEL-F		RT	hair		Kerr magnetooptical effect
GS	halogen compounds		wool		lasers light modulation
	. fluorine compounds	Jane 1991			polarization (waves)
	fluoro compounds	keratitis GS	diseases		
	fluorine organic compounds	us	. eye diseases		gnetooptical effect
	fluoropolymers		keratitis		electromagnetic properties
	KEL-F organic compounds		. infectious diseases		. Kerr magnetooptical effect
	. fluorine organic compounds		bacterial diseases		effects Faraday effect
	fluoropolymers	DT	keratitis		Kerr effects
	KEL-F	RI	conjunctiva cornea		Kerr electrooptical effect
RT	copolymers		Comea		magneto-optics
•	∞ polymers	kernel f	unctions		optical properties
kelp		GS	analysis (mathematics)		polarization (waves)
USE	seaweeds		. real variables		polarized light
			kernel functions	Kestrel a	ircraft
	waves		functions (mathematics) . kernel functions		P-1127 aircraft
(add	led July 1994)	RT	Mellin transforms		
нı	atmospheric circulation Coriolis effect	• • • • • • • • • • • • • • • • • • • •	meshfree methods	ketenes	
	gravity waves			RT	ketones
	ocean currents	kerogen		katanaa	
	planetary waves		Fossilized insoluble organic material	ketones	A class of organic compounds pos-
	∞ waves		n sedimentary rocks, usually shales, an be converted to petroleum products		a carbonyl group attached to two hydro-
Kalvin-	Helmholtz instability	by distill		carbon g	
RT	collisionless plasmas	GS	organic compounds		ketones
	flow stability		. kerogen		. acetone
	→ Helmholtz equations		resources		. acetylacetone
	magnetohydrodynamic flow		. Earth resources		. anthraquinones . camphor
	magnetohydrodynamic stability	RT	kerogen fuel oils		. Nembutal (trademark)
	mass flow nonuniform plasmas		fuels		. pentanone
	plasmas (physics)		gasoline		. trimethadione
	superfluidity		greases		ketenes
			hydrocarbon fuels		PEEK
Kentuc			kerosene lubricants		quinones
GS	nations . United States		oils	kettles (	geology)
	Kentucky		petroleum products		Steepsided, usually basin or
RT	Ohio River (US)		shale oil		ped holes or depressions, commonly
	Tennessee Valley (AL-KY-TN)	_			urface drainage, in glacial drift deposits
		kerosen			ly outwash and kame fields). Kettles
Kenya		GS	fuels . chemical fuels		ntain lakes or swamps; formed by the if large detached blocks of stagnant ice
GS	nations . <b>Kenya</b>		. liquid fuels		nd by retreating glaciers) that had been
	Africa		kerosene		r partly buried by glacial drift. Kettles
RT		RT	antimisting fuels	range in o	depth from about a meter to as much as
RT			diesel fuels	13 km T	horeau's Walden Pond is an example.
Kepler					
<b>Kepler</b> DEF	The three empirical laws governing the		fuel oils	GS	geology
Kepler DEF motions	The three empirical laws governing the s of the planets in their orbits, discovered		fuel oils gasoline	GS	. kettles (geology)
Kepler DEF motions by Joha	The three empirical laws governing the s of the planets in their orbits, discovered annes Kepler (1571-1630). These are: (a)		fuel oils gasoline hydrocarbon fuels	GS	
Kepler DEF motions by Joha the orbi	The three empirical laws governing the s of the planets in their orbits, discovered annes Kepler (1571-1630). These are: (a) its of the planets are ellipses, with the sun		fuel oils gasoline hydrocarbon fuels jet engine fuels	GS	. <b>kettles (geology)</b> landforms . structural basins
Kepler DEF motions by Joha the orbi at a cor	The three empirical laws governing the s of the planets in their orbits, discovered annes Kepler (1571-1630). These are: (a)		fuel oils gasoline hydrocarbon fuels	GS	. kettles (geology) landforms
Kepler DEF motions by Joha the orbitat a corbit, the	The three empirical laws governing the s of the planets in their orbits, discovered annes Kepler (1571-1630). These are: (a) its of the planets are ellipses, with the sun mmon focus; (b) as a planet moves in its he line joining the planet and the sun s over equal areas in equal intervals of		fuel oils gasoline hydrocarbon fuels jet engine fuels JP-7 jet fuel JP-8 jet fuel kerogen	GS RT	. kettles (geology) landforms . structural basins . kettles (geology) caves cavities
Kepler DEF motions by Joha the orbi at a cor orbit, the sweeps time (a	The three empirical laws governing the s of the planets in their orbits, discovered annes Kepler (1571-1630). These are: (a) its of the planets are ellipses, with the sun mmon focus; (b) as a planet moves in its he line joining the planet and the sun s over equal areas in equal intervals of also called law of equal areas); (c) the		fuel oils gasoline hydrocarbon fuels jet engine fuels JP-7 jet fuel JP-8 jet fuel kerogen paraffins	GS RT	. kettles (geology) landforms . structural basins kettles (geology) caves cavities Earth resources
Kepler DEF motions by Joha the orbit at a cor orbit, the sweeps time (a	The three empirical laws governing the s of the planets in their orbits, discovered annes Kepler (1571-1630). These are: (a) its of the planets are ellipses, with the sun mmon focus; (b) as a planet moves in its he line joining the planet and the sun so over equal areas in equal intervals of also called law of equal areas); (c) the sof the periods of revolution of any two		fuel oils gasoline hydrocarbon fuels jet engine fuels JP-7 jet fuel JP-8 jet fuel kerogen paraffins RP-1 rocket propellants	GS RT	. kettles (geology) landforms . structural basins kettles (geology) caves cavities Earth resources glacial drift
Kepler DEF motions by Joha the orbi at a cor brbit, the sweeps ime (a squares blanets	The three empirical laws governing the s of the planets in their orbits, discovered annes Kepler (1571-1630). These are: (a) its of the planets are ellipses, with the sun mmon focus; (b) as a planet moves in its he line joining the planet and the sun s over equal areas in equal intervals of also called law of equal areas); (c) the s of the periods of revolution of any two are proportional to the cubes of their		fuel oils gasoline hydrocarbon fuels jet engine fuels JP-7 jet fuel JP-8 jet fuel kerogen paraffins	GS RT	. kettles (geology) landforms . structural basins . kettles (geology) caves cavities Earth resources glacial drift karst
Kepler DEF motions by Joha the orbi at a cor brbit, the sweeps time (a squares blanets	The three empirical laws governing the s of the planets in their orbits, discovered annes Kepler (1571-1630). These are: (a) its of the planets are ellipses, with the sun mmon focus; (b) as a planet moves in its he line joining the planet and the sun is over equal areas in equal intervals of also called law of equal areas); (c) the softhe periods of revolution of any two are proportional to the cubes of their distances from the sun.	Kerr cel	fuel oils gasoline hydrocarbon fuels jet engine fuels JP-7 jet fuel JP-8 jet fuel kerogen paraffins RP-1 rocket propellants shale oil	GS RT	. kettles (geology) landforms . structural basins kettles (geology) caves cavities Earth resources glacial drift
Kepler DEF motions by Joha the orbi at a cor orbit, the sweeps time (a squares planets mean o	The three empirical laws governing the s of the planets in their orbits, discovered annes Kepler (1571-1630). These are: (a) its of the planets are ellipses, with the sun mmon focus; (b) as a planet moves in its he line joining the planet and the sun s over equal areas in equal intervals of also called law of equal areas); (c) the s of the periods of revolution of any two are proportional to the cubes of their distances from the sun. laws	RT	fuel oils gasoline hydrocarbon fuels jet engine fuels JP-7 jet fuel JP-8 jet fuel kerogen paraffins RP-1 rocket propellants shale oil	GS RT	. kettles (geology) landforms . structural basins kettles (geology) caves cavities Earth resources glacial drift karst lakes sinkholes
Kepler DEF motions by Joha the orbit at a cor orbit, the sweeps time (a squares planets mean of	The three empirical laws governing the s of the planets in their orbits, discovered annes Kepler (1571-1630). These are: (a) its of the planets are ellipses, with the sun mmon focus; (b) as a planet moves in its he line joining the planet and the sun so over equal areas in equal intervals of ilso called law of equal areas); (c) the s of the periods of revolution of any two are proportional to the cubes of their listances from the sun.	RT	fuel oils gasoline hydrocarbon fuels jet engine fuels JP-7 jet fuel JP-8 jet fuel kerogen paraffins RP-1 rocket propellants shale oil	GS RT <b>Kevlar (t</b>	. kettles (geology) landforms . structural basins . kettles (geology) caves cavities Earth resources glacial drift karst lakes

lightweight and nonflammable, and with high impact resistance.

GS fibers

- . reinforcing fibers
- . . aramid fibers
- . . . Kevlar (trademark)
- . synthetic fibers
- . . aramid fibers
- .. Kevlar (trademark)

plastics

- . synthetic resins
- . . thermosetting resins
- . . . furan resins
- . . . polyamide resins
- .... Kevlar (trademark)

resins

- . synthetic resins
- ... thermosetting resins
- . . . furan resins
- . . . polyamide resins
- . . . . . Kevlar (trademark)

RT aramid fiber composites nonflammable materials synthetic fibers

## keying

keying GS

- . frequency shift keying . phase shift keying
- . . binary phase shift keying
- . quadrature phase shift keying

Morse code radio telegraphy teleprinters teletypewriters

## keys (islands)

UF cays

GS landforms

. islands

. keys (islands)

coral reefs Earth resources island arcs oceans

## Kibo Japanese Experiment Module

(added May 2008)

DEF A permanent science module for the International Space Station developed by the Japanese Aerospace Exploration Agency. As Japan's primary contribution to the ISS, Kibo consists of six components, two of which are research facilities used for spaceborne experi-

laboratories

- . space laboratories
- . . manned orbital laboratories
- ... Kibo Japanese Experiment Module

manned spacecraft

- . manned orbital laboratories
- . . Kibo Japanese Experiment Module

modules

- . space station modules
- Kibo Japanese Experiment Module

International Space Station
Japanese space program
spaceborne experiments
spacecraft modules

kidnev calculi

(added August 2004) USE kidney stones

## kidney diseases

diseases GS

- . kidney diseases
- . kidney stones
- nephritis RT cholera

#### kidney stones

(added August 2004)

Calculi occurring in the kidney. Calculi too large to pass spontaneously range in size from 1 cm to the staghorn stones that occupy the renal pelvis and calyces.

UF kidney calculi renal calculi GS diseases

kidney diseases

. kidney stones signs and symptoms

. kidney stones calcium phosphates genitourinary system

kidneys renal function

#### kidneys

anatomy

. genitourinary system

. . kidneys

. glomerulus kidney stones renal function renin urine

urology kilometer wave orbiting telescope

urolithiasis

GS radio equipment

- . radio telescopes
- . . kilometer wave orbiting

telescope

telescopes

. radio telescopes

kilometer wave orbiting telescope

kilometric waves

DEF Electromagnetic waves with wavelengths between 1,000 and 10,000 meters.

electromagnetic radiation

. kilometric waves

 $RT \, \infty \, waves$ 

#### kimberlite

USE biotite peridotite

## kinematic equations

equations of motion GS

kinetic equations

. kinematic equations

 $RT \, \infty \, equations$ 

### kinematics

DEF The branch of mechanics dealing with the description of the motion of bodies or fluids without reference to the forces producing the motion

kinematics GS

. body kinematics . inverse kinematics

acceleration (physics)

 $\infty \, \text{dynamics}$ 

equations of motion

hodographs

kinetics

mechanics (physics)

microwave reflectometers

 $\infty$  motion nutation velocity

kinescopes

USE picture tubes

kinesthesia

perception

sensory perception

. kinesthesia proprioception

kinesthesis

USE proprioception

kinetic energy
DEF The energy which a body possesses as a consequence of its motion. Used for momentum energy.

UF momentum energy

kinetics GS

kinetic energy

RT chemical energy electron energy

∞ energy

equipartition theorem Froude number

hydrodynamic ram effect

internal energy

Lagrange similarity hypothesis Lagrangian function

particle energy potential energy proton energy thermal energy virial theorem

work

zero point energy

#### kinetic equations

equations of motion

. kinetic equations

hydrodynamic equations

. . . Burnett equations

. Helmholtz vorticity equation

kinematic equations

BBGKY hierarchy Bethe-Salpeter equation

BGK model Einstein equations

∞ equations partial differential equations

virial theorem

## kinetic friction

GS friction

. kinetic friction

. . sliding friction coefficient of friction

dry friction

friction measurement static friction

# kinetic heating

heating GS

. kinetic heating

. . aerodynamic heating . . . shock heating

gas heating magnetic pumping plasma heating

kinetic theory DEF The derivation of the bulk properties of fluids from the properties of their constituent molecules, their motions and interactions.

kinetic theory

. transport theory

. . Chapman-Enskog theory

. . Eyring theory . mixing length flow theory

BGK model

binary fluids

Boltzmann distribution Boltzmann transport equation

diffusion diffusion theory diffusion waves

dynamic pressure equations of state free molecular flow

gas transport gaseous self-diffusion

ideal gas Joule-Thomson effect Knudsen flow Krook equation Lorentz gas

mass flow Maxwell-Boltzmann density function

mobility momentum transfer Morse potential

real gases ∞ theories

transport properties

## kinetics

GS kinetics

electrokinetics

kinetic energy Newton second law

. Newton Theory

. reaction kinetics		thermodynamics	GS	nuclear electric power generation
. variable mass systems	Vin-bb-	#     =   =   t =   t =		. nuclear power reactors
RT acceleration (physics)		ff-Helmholtz flow		. KIWI reactors
angular momentum	USE	pipe flow		KIWI B reactors
body kinematics ∞ dynamics	Kirchho	ff-Huygens principle		KIWI B-1 Reactor KIWI B-4 Reactor
fluid dynamics		diffraction		nuclear reactors
fluid mechanics	332	wave propagation		. gas cooled reactors
∞ force		propugamen		KIWI reactors
gas dynamics	Kirkend	lall effect		KIWI B reactors
hydromechanics	RT	diffusion theory		KIWI B-1 Reactor
ideal gas		diffusion welding		KIWI B-4 Reactor
kinematics		diffusivity		. nuclear power reactors
mechanics (physics)	•	effects		KIWI reactors
momentum transfer		thermal diffusion		KIWI B reactors
motion aftereffects				KIWI B-1 Reactor
newton	kite ball			KIWI B-4 Reactor
particle collisions	USE	tethered balloons		. nuclear research and test reactors
∞ physics	kits			KIWI reactors
velocity		first aid		KIWI B reactors
	111	survival		KIWI B-1 Reactor
kink bands		tools	DT	KIWI B-4 Reactor
(added March 1998)		10013	RI	NRX reactors
RT buckling	KIWI B	reactors		nuclear engine for rocket vehicles
compression loads	GS	nuclear electric power generation		Phoebus nuclear reactor
edge dislocations		. nuclear power reactors		Rover project
failure modes		KIWI reactors	KIMI ro	ocket reactors
fiber composites		KIWI B reactors		KIWI reactors
microstructure		KIWI B-1 Reactor	OGL	RIWI reactors
plastic deformation		KIWI B-4 Reactor	Kieldah	nl method
reinforcing fibers		nuclear reactors	GS	
single crystals		. gas cooled reactors	ao	. chemical analysis
		KIWI reactors		quantitative analysis
kinking		KIWI B reactors		Kjeldahl method
(added April 1998)		KIWI B-1 Reactor	RT	
RT bending		KIWI B-4 Reactor		∞ methodology
buckling		. nuclear power reactors		nitrogen
compression loads		KIWI reactors		titration
cracking (fracturing)		KIWI B reactors		
deformation		KIWI B-1 Reactor	Klebsie	ella
displacement		KIWI B-4 Reactor	GS	microorganisms
failure modes		. nuclear research and test reactors		. bacteria
fiber composites		KIWI reactors		Klebsiella
folding		KIWI B reactors		
heaving		KIWI B-1 Reactor		ounham potential
twisting		KIWI B-4 Reactor	RT «	∞ potential
wrinkling	KIMI B	4 Decetes		quantum theory
		1 Reactor	Vlain C	Saudan agustian
kinoform	GS	nuclear electric power generation . nuclear power reactors		Fordon equation
GS display devices		KIWI reactors	GS	wave equations
. kinoform		KIWI B reactors	RT	. Klein-Gordon equation Dirac equation
imagery		KIWI B-1 Reactor		∞ equations
. kinoform		nuclear reactors		~ equations
RT computer programming		. gas cooled reactors	klippen	
holography		KIWI reactors		outliers (landforms)
wave front reconstruction		KIWI B reactors	002	Camero (iamaroniio)
		KIWI B-1 Reactor	klystro	ns
Kirchhoff law		. nuclear power reactors	DEF	
SN (USE OF A MORE SPECIFIC	TERM IS	KIWI reactors		energy into radio frequency energy by
RECOMMENDEDCONSULT	THE TERMS	KIWI B reactors	alternat	ely speeding up and slowing down the
LISTED BELOW) RT Kirchhoff law of networks		KIWI B-1 Reactor	electror	
Kirchhoff law of radiation		. nuclear research and test reactors	GS	electron tubes
Simon law of radiation		KIWI reactors		. vacuum tubes
Kirchhoff law of networks		KIWI B reactors		microwave tubes
RT circuits		KIWI B-1 Reactor		klystrons
electric current				microwave equipment
		4 Decetes		. microwave tubes
	KIWI B-			
electric potential	KIWI B- GS	nuclear electric power generation		klystrons
∞ Kirchhoff law		nuclear electric power generation . nuclear power reactors	RT	amplifiers
∞ Kirchhoff law ∞ nets		nuclear electric power generation . nuclear power reactors KIWI reactors	RT	amplifiers catchers
∞ Kirchhoff law ∞ nets network analysis		nuclear electric power generation . nuclear power reactors KIWI reactors KIWI B reactors	RT	amplifiers catchers cavity resonators
∞ Kirchhoff law ∞ nets		nuclear electric power generation . nuclear power reactors KIWI reactors KIWI B reactors KIWI B-4 Reactor	RT	amplifiers catchers cavity resonators cyclotron resonance devices
∞ Kirchhoff law ∞ nets network analysis network synthesis		nuclear electric power generation . nuclear power reactors . KIWI reactors KIWI B reactors KIWI B-4 Reactor nuclear reactors	RT	amplifiers catchers cavity resonators cyclotron resonance devices electron bunching
<ul> <li>∞ Kirchhoff law</li> <li>∞ nets</li> <li>network analysis</li> <li>network synthesis</li> </ul> Kirchhoff law of radiation	GS	nuclear electric power generation . nuclear power reactors . KIWI reactors KIWI B reactors KIWI B-4 Reactor nuclear reactors . gas cooled reactors	RT	amplifiers catchers cavity resonators cyclotron resonance devices electron bunching electron cyclotron heating
<ul> <li>∞ Kirchhoff law</li> <li>∞ nets</li> <li>network analysis</li> <li>network synthesis</li> </ul> Kirchhoff law of radiation DEF The radiation law which st	GS attes that at a	nuclear electric power generation . nuclear power reactors . KIWI reactors KIWI B reactors KIWI B-4 Reactor nuclear reactors . gas cooled reactors . KIWI reactors	RT	amplifiers catchers cavity resonators cyclotron resonance devices electron bunching electron cyclotron heating electrostatic generators
∞ Kirchhoff law ∞ nets network analysis network synthesis  Kirchhoff law of radiation DEF The radiation law which st given temperature the ratio of the	GS attes that at a emissivity to	nuclear electric power generation . nuclear power reactors . KIWI reactors . KIWI B reactors . KIWI B-4 Reactor nuclear reactors . gas cooled reactors . KIWI reactors . KIWI B reactors	RT	amplifiers catchers cavity resonators cyclotron resonance devices electron bunching electron cyclotron heating electrostatic generators magnetrons
∞ Kirchhoff law ∞ nets network analysis network synthesis  Kirchhoff law of radiation DEF The radiation law which st given temperature the ratio of the the absorptivity for a given wavel	GS ates that at a emissivity to ength is the	nuclear electric power generation nuclear power reactors . KIWI reactors . KIWI B-4 Reactor . KIWI B-4 Reactor nuclear reactors . gas cooled reactors . KIWI reactors . KIWI reactors . KIWI B-4 Reactor	RT	amplifiers catchers cavity resonators cyclotron resonance devices electron bunching electron cyclotron heating electrostatic generators
∞ Kirchhoff law ∞ nets network analysis network synthesis  Kirchhoff law of radiation  DEF The radiation law which st given temperature the ratio of the the absorptivity for a given wavel same for all bodies and is equal to ti	ates that at a emissivity to ength is the he emissivity	nuclear electric power generation . nuclear power reactors . KIWI reactors . KIWI B-4 Reactor . KIWI B-4 Reactor nuclear reactors . gas cooled reactors . KIWI reactors . KIWI B-4 Reactor . NIWI B-4 Reactor . nuclear power reactors		amplifiers catchers cavity resonators cyclotron resonance devices electron bunching electron cyclotron heating electrostatic generators magnetrons microwave oscillators
∞ Kirchhoff law     ∞ nets     network analysis     network synthesis      Kirchhoff law of radiation     DEF The radiation law which st given temperature the ratio of the the absorptivity for a given wavel same for all bodies and is equal to t of an ideal black body at that tem	ates that at a emissivity to ength is the he emissivity	nuclear electric power generation . nuclear power reactors . KIWI reactors . KIWI B reactors . KIWI B-4 Reactor nuclear reactors . gas cooled reactors . KIWI reactors . KIWI B reactors . KIWI B reactors . KIWI B-4 Reactor . nuclear power reactors . KIWI reactors	k-meso	amplifiers catchers cavity resonators cyclotron resonance devices electron bunching electron cyclotron heating electrostatic generators magnetrons microwave oscillators
∞ Kirchhoff law     ∞ nets     network analysis     network synthesis      Kirchhoff law of radiation     DEF The radiation law which st given temperature the ratio of the the absorptivity for a given wavel same for all bodies and is equal to ti of an ideal black body at that temp wavelength.	ates that at a emissivity to ength is the he emissivity	nuclear electric power generation . nuclear power reactors . KIWI reactors . KIWI B reactors . KIWI B-4 Reactor nuclear reactors . gas cooled reactors . KIWI reactors . KIWI reactors . KIWI B reactors . KIWI B reactors . KIWI B-4 Reactor nuclear power reactors . KIWI reactors . KIWI reactors		amplifiers catchers cavity resonators cyclotron resonance devices electron bunching electron cyclotron heating electrostatic generators magnetrons microwave oscillators
∞ Kirchhoff law ∞ nets network analysis network synthesis  Kirchhoff law of radiation DEF The radiation law which st given temperature the ratio of the the absorptivity for a given wavel same for all bodies and is equal to t of an ideal black body at that temp wavelength. GS laws	ates that at a emissivity to ength is the he emissivity	nuclear electric power generation nuclear power reactors . KIWI reactors . KIWI B-4 Reactor nuclear reactors . gas cooled reactors . KIWI eactors . KIWI eactors . KIWI eactors . KIWI b-4 Reactor nuclear power reactors . KIWI reactors . KIWI reactors . KIWI b-4 Reactor . KIWI b-4 Reactor . KIWI B-4 Reactor	<i>k-meso</i> USE	amplifiers catchers cavity resonators cyclotron resonance devices electron bunching electron cyclotron heating electrostatic generators magnetrons microwave oscillators  ns kaons
∞ Kirchhoff law ∞ nets network analysis network synthesis  Kirchhoff law of radiation DEF The radiation law which st given temperature the ratio of the the absorptivity for a given wavel same for all bodies and is equal to t of an ideal black body at that temp wavelength. GS laws . radiation laws	ates that at a emissivity to ength is the he emissivity perature and	nuclear electric power generation . nuclear power reactors . KIWI reactors . KIWI B reactors . KIWI B-4 Reactor nuclear reactors . gas cooled reactors . KIWI reactors . KIWI eactors . KIWI B-4 Reactor . nuclear power reactors . KIWI reactors . KIWI reactors . KIWI B-4 Reactor . nuclear power reactors . KIWI B reactors . KIWI B-4 Reactor . nuclear research and test reactors	<i>k-meso</i> USE <b>knee (</b> a	amplifiers catchers cavity resonators cyclotron resonance devices electron bunching electron cyclotron heating electrostatic generators magnetrons microwave oscillators  ns kaons unatomy)
∞ Kirchhoff law     ∞ nets     network analysis     network synthesis  Kirchhoff law of radiation  DEF The radiation law which st given temperature the ratio of the the absorptivity for a given wavel same for all bodies and is equal to t of an ideal black body at that temp wavelength.  GS laws     . radiation laws     . Kirchhoff law of radia	ates that at a emissivity to ength is the he emissivity perature and	nuclear electric power generation nuclear power reactors . KIWI reactors . KIWI B-4 Reactor nuclear reactors . gas cooled reactors . KIWI eactors . KIWI eactors . KIWI eactors . KIWI b-4 Reactor nuclear power reactors . KIWI reactors . KIWI reactors . KIWI b-4 Reactor . KIWI b-4 Reactor . KIWI B-4 Reactor	<i>k-meso</i> USE	amplifiers catchers cavity resonators cyclotron resonance devices electron bunching electron cyclotron heating electrostatic generators magnetrons microwave oscillators  ns kaons inatomy) anatomy
∞ Kirchhoff law     ∞ nets     network analysis     network synthesis      Kirchhoff law of radiation  DEF The radiation law which st given temperature the ratio of the the absorptivity for a given wave! same for all bodies and is equal to ti of an ideal black body at that temperature wavelength.  GS laws     . radiation laws     . Kirchhoff law of radia  RT absorptivity	ates that at a emissivity to ength is the he emissivity perature and	nuclear electric power generation . nuclear power reactors . KIWI reactors . KIWI B-4 Reactor nuclear reactors . gas cooled reactors . KIWI reactors . KIWI reactors . KIWI B-4 Reactor nuclear power reactors . KIWI reactors . KIWI B-4 Reactor nuclear power reactors . KIWI B reactors . KIWI B reactors . KIWI B-4 Reactor . nuclear power reactors . KIWI B-4 Reactor	<i>k-meso</i> USE <b>knee (</b> a	amplifiers catchers catchers cavity resonators cyclotron resonance devices electron bunching electron cyclotron heating electrostatic generators magnetrons microwave oscillators  ms kaons  unatomy) anatomy . limbs (anatomy)
∞ Kirchhoff law     ∞ nets     network analysis     network synthesis  Kirchhoff law of radiation  DEF The radiation law which st given temperature the ratio of the the absorptivity for a given wavel same for all bodies and is equal to t of an ideal black body at that temp wavelength.  GS laws     . radiation laws     . Kirchhoff law of radia	ates that at a emissivity to ength is the he emissivity perature and	nuclear electric power generation . nuclear power reactors . KIWI reactors . KIWI B-4 Reactor nuclear reactors . gas cooled reactors . KIWI reactors . KIWI B-4 Reactor . KIWI B-4 Reactor . nuclear power reactors . KIWI reactors . KIWI B-4 Reactor . Nuclear power reactors . KIWI B Reactors . KIWI B-4 Reactor	<i>k-meso</i> USE <b>knee (</b> a	amplifiers catchers cavity resonators cyclotron resonance devices electron bunching electron cyclotron heating electrostatic generators magnetrons microwave oscillators  ms kaons  matomy) anatomy . limbs (anatomy) . leg (anatomy)
∞ Kirchhoff law     ∞ nets     network analysis     network synthesis      Kirchhoff law of radiation     DEF The radiation law which st given temperature the ratio of the the absorptivity for a given wavel same for all bodies and is equal to ti of an ideal black body at that temp wavelength.      GS laws         . radiation laws         . Kirchhoff law of radia  RT absorptivity     black body radiation	ates that at a emissivity to ength is the he emissivity perature and	nuclear electric power generation nuclear power reactors . KIWI reactors . KIWI B-4 Reactor nuclear reactors . gas cooled reactors . KIWI B-4 Reactor . KIWI B-4 Reactor . KIWI B-4 Reactor . KIWI eactors . KIWI B-4 Reactor nuclear power reactors . KIWI reactors . KIWI B-4 Reactor nuclear power reactors . KIWI B-4 Reactor	<i>k-meso</i> USE <b>knee (</b> a	amplifiers catchers catchers cavity resonators cyclotron resonance devices electron bunching electron cyclotron heating electrostatic generators magnetrons microwave oscillators  ms kaons  unatomy) anatomy . limbs (anatomy)
∞ Kirchhoff law     ∞ nets     network analysis     network synthesis  Kirchhoff law of radiation     DEF The radiation law which stigiven temperature the ratio of the the absorptivity for a given wavel same for all bodies and is equal to tof an ideal black body at that temperature the radiation laws	ates that at a emissivity to ength is the he emissivity perature and tion	nuclear electric power generation nuclear power reactors . KIWI reactors . KIWI B-4 Reactor nuclear reactors . gas cooled reactors . KIWI B-4 Reactor . KIWI B-4 Reactor . KIWI B-4 Reactor . KIWI eactors . KIWI B-4 Reactor nuclear power reactors . KIWI reactors . KIWI B-4 Reactor nuclear power reactors . KIWI B-4 Reactor	<i>k-meso</i> USE <b>knee (</b> a	amplifiers catchers cavity resonators cyclotron resonance devices electron bunching electron cyclotron heating electrostatic generators magnetrons microwave oscillators  ms kaons  matomy) anatomy . limbs (anatomy) leg (anatomy) knee (anatomy)

KIWI reactors
UF KIWI rocket reactors

. . . knee (anatomy) appendages . leg (anatomy) . knee (anatomy) RT femur

knight shift

nuclear magnetic resonance USE

knobs RT

handles manual control

#### knockout mice

(added April 2004)

Mice whose genome contains a gene whose function has been disrupted, or "knocked-out". Knockout mice are used as animal models for various diseases, such as cystic fibrosis, and help to clarify the functions of genes studied within the fields of immunology, cancer genetics, and devlopmental biology.

GS animals

. vertebrates

. . mammals

... rodents . . . . mice

. . . . . knockout mice

models

. animal models

. . knockout mice

#### Knoop hardness

Relative microhardness as determined by the Knoop diamond-pyramid indentation test.

mechanical properties

. hardness

. . microhardness

. . Knoop hardness

hardness tests nanoindentation

## knowledge

knowledge GS

> . lessons learned axioms documentation education learning literature paradoxes

perception philosophy textbooks

training evaluation

#### knowledge based systems

(added April 1993)

information systems

knowledge based systems

. . expert systems artificial intelligence

computer techniques data structures

decision support systems knowledge bases (artificial intelligence)

knowledge representation natural language processing pilot support systems

## knowledge bases (artificial intelligence)

(added November 1988)

Facts, assumptions, beliefs, and heuristics, used in dealing with a database to achieve desired results such as a diagnosis, an interpretation, or a solution to a problem.

data bases GS

## . knowledge bases (artificial intelligence)

artificial intelligence expert systems knowledge based systems knowledge representation

knowledge discovery (added April 2000) USE data mining

knowledge extraction (added April 2000) USE data mining

#### knowledge representation

The use of symbolic data structures to represent knowledge so that a computer can manipulate them.

natural language (computers)

artificial intelligence belief networks cognition expert systems hypertext knowledge based systems knowledge bases (artificial intelligence)

Knudsen cells

USE Knudsen gages

#### Knudsen flow

UF Knudsen number

GS fluid flow

. gas flow

. Knudsen flow

. internal flow

. . ducted flow

Knudsen flow

BGK model

boundary layer transition free molecular flow

kinetic theory mean free path

molecular flow pressure gradients

rarefied gas dynamics

transition points vacuum

viscous flow

Knudsen gages

DEF Gages which measure pressure in terms of the net rate of transfer of momentum by molecules between two surfaces maintained at different temperatures and separated by a distance smaller than the mean free path of the gas molecules. Used for Knudsen cells.

Knudsen cells

GS measuring instruments

. pressure gages

. . . Knudsen gages

vacuum apparatus

. vacuum gages

. Knudsen gages ionization gages

Mcleod gages

Pirani gages

pressure measurement

radiometers

Knudsen number

USE Knudsen flow

## knurling

grooving machining metal cutting

## Kohoutek comet

GS celestial bodies . comets

## . Kohoutek comet

Bessel-Bredichin theory ∞ coma radiation pressure solar system

## Kolmogorov theory

(added July 1993)

isotropic turbulence Lagrange similarity hypothesis

shear flow

 $\infty$  theories turbulent flow vortices

## Kolmogorov-Smirnov test

(added July 1993) GS statistical analysis

statistical tests

. . Kolmogorov-Smirnov test

probability theory statistical distributions

## k-omega turbulence model

(added June 1997)

kappa-omega turbulence model

models

. mathematical models

. . turbulence models

. . k-omega turbulence model

computational fluid dynamics k-epsilon turbulence model turbulent boundary layer

turbulent flow

### Kondo effect

DEF Change in superconductivity characteristics resulting from magnetic impurities in the compounds involved.

GS electrical properties . electrical resistivity

. . superconductivity

. . Kondo effect transport properties

. electrical resistivity . . superconductivity

. . Kondo effect

alloys ∞ effects

low temperature physics magnetic materials

nuclear spin

transition temperature

### 

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

South Korea

Korteweg-Devries equation
DEF The mathematical representation describing the propagation of long waves of small but finite amplitude.

GS wave equations

. Korteweg-Devries equation

 $RT\, \infty\, equations$ 

Kossel pattern

distribution (property)

. radiation distribution

. . diffraction patterns .. Kossel pattern

RT crystal lattices

#### Kovar (trademark)

GS alloys

Kovar (trademark)

RT cobalt alloys

**KP** index

GS ratios

. indexes (ratios) . KP index

RT Earth magnetosphere geomagnetic pulsations

geomagnetism indexes

magnetic disturbances magnetic properties magnetic variations

## Kraft process (woodpulp)

DEF Woodpulping process in which sodium sulfate is used in the caustic soda pulp-digestion liquor. Also known as sulfate pulping or Kraft pulping.

RT manufacturing paper (material)

## Kramers-Kronig formula

∞ processes

## Kramers-Kronig formula

DEF The relationship between the attenuation coefficient and the dispersion (frequency dependent phase velocity) for viscoelastic

RT ∞ dispersion ∞ formulas opacity spectrum analysis

## Krebs cycle

cells (biology) metabolism

A yellow-brown glassy lunar mineral enriched in potassium, rare earth elements, and GS minerals

. kreep rocks . lunar rocks .. kreep geology lunar soil phosphates potassium rare earth elements

DEF A method of providing unbiased estimates of variables in regions where the available data exhibit spatial autocorrelation, and these estimates are obtained in such a way that they have minimum variance.

RT variance (statistics)

Kronecker product
USE orthogonality

#### Krook equation

RT ∞ equations hydrodynamics kinetic theory shear flow shock wave profiles

Krueger flaps

USE leading edge flaps

## krypton

GS chemical elements

. rare gases

. . krypton

. . . krypton isotopes . . . . krypton 85

gases

. rare gases

. . krypton . . . krypton isotopes

. . . . krypton 85

### krypton 85

GS chemical elements . nuclides

. . isotopes

. . . krypton isotopes . . . . krypton 85

... radioactive isotopes

. . . . krypton 85

. rare gases . . krypton

... krypton isotopes

.... krypton 85

gases

. rare gases

. . krypton

... krypton isotopes

.... krypton 85

#### krypton fluoride lasers

DEF Rare gas halide ultraviolet stimulated emission devices in which krypton fluoride is the active lasing medium.

stimulated emission devices

. lasers

. . gas lasers

. . . rare gas-halide lasers

. . krypton fluoride lasers

RT coherent electromagnetic radiation lasing

masers

optical pumping

## krypton isotopes

GS chemical elements

. nuclides

. . isotopes

... krypton isotopes

. . . . krypton 85 . rare gases

. . krypton

... krypton isotopes

. . krypton 85

gases

. rare gases

. . krypton

... krypton isotopes

. . . . krypton 85

KS-3 aircraft

USE S-3 aircraft

K-T boundary

USE Cretaceous-Tertiary boundary

USE superhigh frequencies

## **Kuiper Airborne Observatory**

(added June 1990) observatories

. Kuiper Airborne Observatory

airborne equipment astronomical spectroscopy

C-141 aircraft infrared astronomy

SOFIA (airborne observatory)

### Kuiper belt

. (added June 1997) asteroids

comets dwarf planets New Horizons mission Oort cloud Quaoar solar system solar system evolution trans-Neptunian objects

#### Kurile Islands

GS landforms

. islands

. . Pacific islands Kurile Islands

RT U.S.S.R.

#### kurtosis

In statistics, the extent to which a frequency distribution is peaked or concentrated about the mean; it is sometimes defined as the ratio of the fourth moment of the distribution to the square of the second moment.

distribution (property)

. frequency distribution

. kurtosis

 $RT \, \infty \, distribution$ 

Fourier analysis

∞ patterns

statistical distributions

## Kutta-Joukowski condition

conditions

. Kutta-Joukowski condition

airfoil profiles

boundary layer separation Joukowski transformation

#### Kuwait

GS nations

. Kuwait

RT Asia

## **Kvant modules**

(added April 1995)

GS modules

. space station modules

Kvant modules

Mir space station Russian Space Program Soyuz spacecraft

space station structures

x ray telescopes

### **KWIC indexes**

GS classifications

. indexes (documentation)

. KWIC indexes

RT ∞ indexes thesauri

Kyokko satellite

USE **EXOS-A satellite** 

# Kyrgyzstan

(added August 1993)

GS nations

Kyrgyzstan RT Asia

L band		RT experiment design	finishes
USE	ultrahigh frequencies	experimentation nuclear research	. <b>lacquers</b> RT metal coatings
L-28 aire	craft	research facilities	RT metal coatings primers (coatings)
USE	U-10 aircraft	SAIL project	protective coatings
1 00 oir	ara#	test facilities	sprayed coatings
L-29 aire	L-29 jet trainer	∞ tests	lactates
OOL	23 jet tramer	laboratory astrophysics	GS esters
L-29 jet		(added June 2004)	. lactates
UF	Delfin aircraft	DEF Investigation of the formation, proper-	
	L-29 aircraft Omnipol L-29 aircraft	ties, and interactions of interstellar matter con- ducted through laboratory experimentation.	lactic acid  GS acids
GS	jet aircraft	GS astrophysics	. carboxylic acids
	. L-29 jet trainer	laboratory astrophysics	. lactic acid
	monoplanes . L-29 jet trainer	RT astronomical spectroscopy	organic compounds
	single engine aircraft	computational astrophysics	. carboxylic acids <b>lactic acid</b>
	. L-29 jet trainer	cosmochemistry interstellar chemistry	Idotto dold
	tilt wing aircraft	interstellar matter	lactose
	. L-29 jet trainer	molecular clouds	GS organic compounds
	training aircraft . L-29 jet trainer	laboratory equipment	. carbohydrates sugars
	V/STOL aircraft	GS laboratory equipment	lactose
	. L-29 jet trainer	. image furnaces	
L-1011 a	piroraft	. syringes	lacunas DT lighons
	commercial aircraft	RT ampoules ∞ equipment	RT lichens plants (botany)
	. L-1011 aircraft	glassware	plane (ocally)
	jet aircraft	measuring instruments	ladders
	. L-1011 aircraft Lockheed aircraft	pipettes	RT escalators
	. L-1011 aircraft	Labrador	stairways
	passenger aircraft	RT Canada	lag (delay)
	L-1011 aircraft		USE time lag
	transport aircraft	labyrinth	LAGEOS (satellite)
RT ∝	. <b>L-1011 aircraft</b> aircraft	GS anatomy . sense organs	UF Laser Geodynamic Satellite
	turbofan engines	ear	GS artificial satellites
		labyrinth	. passive satellites
<b>L-2000</b> a	aircraft Lockheed L-2000 aircraft	cochlea	LAGEOS (satellite) RT laser range finders
	jet aircraft	Corti organ otolith organs	retroreflection
	. L-2000 aircraft	semicircular canals	satellite laser ranging
	Lockheed aircraft	vestibules	lamana
	. L-2000 aircraft	laburinth anala	lagoons  DEF Shallow stretches of seawater, such as
	passenger aircraft . L-2000 aircraft	labyrinth seals  DEF Minimum leakage seals that offer re-	sounds, channels, bays (topographic features),
	supersonic aircraft	sistance to fluid flow while providing radial or	or saltwater lakes, near or communicating with
	. supersonic transports	axial clearance.	seas and partly or completely separated from
	. L-2000 aircraft	GS seals (stoppers)	them by low, narrow, elongated strips of land, such as reefs, barrier islands, sandbanks, or
	transport aircraft . L-2000 aircraft	. <b>labyrinth seals</b> RT fluid flow	spits. Lagoons are often used to describe sheets
RT ∝	aircraft	gaskets	of water between offshore coral reefs and the
		glands (seals)	mainland. They often extend roughly parallel to
	(marking) marking	hermetic seals	the coast and are little affected by tides. La- goons are also considered shallow freshwater
USL	marking	leakage O ring seals	ponds or lakes near or communicating with
labor		packings (seals)	larger lakes or rivers.
RT	manpower	plugs	GS landforms
	mediation personnel selection	pump seals	. <b>lagoons</b> RT atolls
	personner selection	rotor speed	bars (landforms)
laborato	ories	labyrinthectomy	beaches
GS	laboratories	GS medical science	coasts
	engine testing laboratories     environmental laboratories	. surgery	dunes inlets (topography)
	. human factors laboratories	<b>labyrinthectomy</b> RT ear	island arcs
	. lunar laboratories		islands
	lunar receiving laboratory	LACATE (experiment)	lakes
	. lunar mobile laboratories . space laboratories	DEF A NASA balloonborne experiment conducted from a balloon platform carried by a	ponds reservoirs
	Advanced Technology Laboratory	balloon over 400 feet in diameter. The acronym	topography
	Atmospheric Cloud Physics Lab	stands for the Lower Atmospheric Composition	
	(Spacelab)	and Temperature Experiment. The experiment	Lagrange coordinates
	Earth Viewing Applications	was conducted in 1974. Used for Lower Atmo-	DEF Systems of coordinates by which fluid
		was conducted in 1974. Used for Lower Atmospheric Composition Experiment.  UF Lower Atmospheric Composition	parcels are identified for all times by assigning them coordinates which do not vary with time.
	Earth Viewing Applications     Laboratory     Long Duration Exposure Facility     manned orbital laboratories	spheric Composition Experiment.	parcels are identified for all times by assigning them coordinates which do not vary with time. Examples of such coordinates are: (a) the val-
	Earth Viewing Applications     Laboratory     Long Duration Exposure Facility     manned orbital laboratories     Columbus module	spheric Composition Experiment.  UF Lower Atmospheric Composition Experiment  RT atmospheric composition	parcels are identified for all times by assigning them coordinates which do not vary with time. Examples of such coordinates are: (a) the val- ues of any properties of the fluid conserved in
	Earth Viewing Applications     Laboratory     Long Duration Exposure Facility     manned orbital laboratories     Columbus module     Destiny Laboratory Module	spheric Composition Experiment.  UF Lower Atmospheric Composition Experiment  RT atmospheric composition atmospheric temperature	parcels are identified for all times by assigning them coordinates which do not vary with time. Examples of such coordinates are: (a) the values of any properties of the fluid conserved in the motion; or (b) more generally, the positions
	Earth Viewing Applications     Laboratory     Long Duration Exposure Facility     manned orbital laboratories     Columbus module     Destiny Laboratory Module     Kibo Japanese Experiment     Module	spheric Composition Experiment.  UF Lower Atmospheric Composition Experiment  RT atmospheric composition	parcels are identified for all times by assigning them coordinates which do not vary with time. Examples of such coordinates are: (a) the values of any properties of the fluid conserved in the motion; or (b) more generally, the positions in space of the parcels at some arbitrarily selected moment. Subsequent positions in space
	Earth Viewing Applications     Laboratory     Long Duration Exposure Facility     manned orbital laboratories     Columbus module     Destiny Laboratory Module     Kibo Japanese Experiment     Module     Skylab 1	spheric Composition Experiment.  UF Lower Atmospheric Composition Experiment  RT atmospheric composition atmospheric temperature lower atmosphere  LACE (engine)	parcels are identified for all times by assigning them coordinates which do not vary with time. Examples of such coordinates are: (a) the values of any properties of the fluid conserved in the motion; or (b) more generally, the positions in space of the parcels at some arbitrarily selected moment. Subsequent positions in space of the parcels are then the dependent variables,
	Earth Viewing Applications     Laboratory     Long Duration Exposure Facility     manned orbital laboratories     Columbus module     Destiny Laboratory Module     Kibo Japanese Experiment     Module     Skylab 1     Skylab 2	spheric Composition Experiment.  UF Lower Atmospheric Composition Experiment  RT atmospheric composition atmospheric temperature lower atmosphere	parcels are identified for all times by assigning them coordinates which do not vary with time. Examples of such coordinates are: (a) the values of any properties of the fluid conserved in the motion; or (b) more generally, the positions in space of the parcels at some arbitrarily selected moment. Subsequent positions in space of the parcels are then the dependent variables, functions of time and of the Lagrange coordi-
	Earth Viewing Applications     Laboratory     Long Duration Exposure Facility     manned orbital laboratories     Columbus module     Destiny Laboratory Module     Kibo Japanese Experiment     Module     Skylab 1	spheric Composition Experiment.  UF Lower Atmospheric Composition Experiment  RT atmospheric composition atmospheric temperature lower atmosphere  LACE (engine)	parcels are identified for all times by assigning them coordinates which do not vary with time. Examples of such coordinates are: (a) the values of any properties of the fluid conserved in the motion; or (b) more generally, the positions in space of the parcels at some arbitrarily selected moment. Subsequent positions in space of the parcels are then the dependent variables,
	Earth Viewing Applications     Laboratory     Long Duration Exposure Facility     manned orbital laboratories     Columbus module     Destiny Laboratory Module     Kibo Japanese Experiment     Module     Skylab 1     Skylab 2     Skylab 3	spheric Composition Experiment.  UF Lower Atmospheric Composition Experiment  RT atmospheric composition atmospheric temperature lower atmosphere  LACE (engine) USE liquid air cycle engines	parcels are identified for all times by assigning them coordinates which do not vary with time. Examples of such coordinates are: (a) the values of any properties of the fluid conserved in the motion; or (b) more generally, the positions in space of the parcels at some arbitrarily selected moment. Subsequent positions in space of the parcels are then the dependent variables, functions of time and of the Lagrange coordinates. Also called material coordinates.  GS coordinates  Lagrange coordinates
	Earth Viewing Applications     Laboratory     Long Duration Exposure Facility     manned orbital laboratories     Columbus module     Destiny Laboratory Module     Kibo Japanese Experiment     Module     Skylab 1     Skylab 2     Skylab 3     Skylab 4	spheric Composition Experiment.  UF Lower Atmospheric Composition Experiment  RT atmospheric composition atmospheric temperature lower atmosphere  LACE (engine) USE liquid air cycle engines  lacquers	parcels are identified for all times by assigning them coordinates which do not vary with time. Examples of such coordinates are: (a) the values of any properties of the fluid conserved in the motion; or (b) more generally, the positions in space of the parcels at some arbitrarily selected moment. Subsequent positions in space of the parcels are then the dependent variables, functions of time and of the Lagrange coordinates. Also called material coordinates.  GS coordinates
	Earth Viewing Applications     Laboratory     Long Duration Exposure Facility     manned orbital laboratories     Columbus module     Destiny Laboratory Module     Kibo Japanese Experiment     Module     Skylab 1     Skylab 2     Skylab 3     Skylab 4     Spacelab	spheric Composition Experiment.  UF Lower Atmospheric Composition Experiment  RT atmospheric composition atmospheric temperature lower atmosphere  LACE (engine) USE liquid air cycle engines  lacquers GS coatings	parcels are identified for all times by assigning them coordinates which do not vary with time. Examples of such coordinates are: (a) the values of any properties of the fluid conserved in the motion; or (b) more generally, the positions in space of the parcels at some arbitrarily selected moment. Subsequent positions in space of the parcels are then the dependent variables, functions of time and of the Lagrange coordinates. Also called material coordinates.  GS coordinates  Lagrange coordinates
	Earth Viewing Applications     Laboratory     Long Duration Exposure Facility     manned orbital laboratories     Columbus module     Destiny Laboratory Module     Kibo Japanese Experiment     Module     Skylab 1     Skylab 2     Skylab 3     Skylab 4     Spacelab	spheric Composition Experiment.  UF Lower Atmospheric Composition Experiment  RT atmospheric composition atmospheric temperature lower atmosphere  LACE (engine) USE liquid air cycle engines  lacquers GS coatings	parcels are identified for all times by assigning them coordinates which do not vary with time. Examples of such coordinates are: (a) the values of any properties of the fluid conserved in the motion; or (b) more generally, the positions in space of the parcels at some arbitrarily selected moment. Subsequent positions in space of the parcels are then the dependent variables, functions of time and of the Lagrange coordinates. Also called material coordinates.  GS coordinates  Lagrange coordinates  RT classical mechanics

## Lagrange multipliers

hydrodynamics Lagrangian function librational motion

Lagrange equations of motion USE Euler-Lagrange equation

## Lagrange multipliers

chiral dynamics differential equations isoperimetric problem Lagrangian function multipliers operations research optimization

#### Lagrange similarity hypothesis

hypotheses

Lagrange similarity hypothesis theorems

. similarity theorem

. Lagrange similarity hypothesis

energy dissipation energy transfer kinetic energy Kolmogorov theory turbulent flow

Lagrangian

USE Lagrangian function

## Lagrangian equilibrium points

gravitational effects

Lagrangian equilibrium points

celestial mechanics gravitational fields orbital mechanics Trojan asteroids

## Lagrangian function

(added April 1993)

Lagrangian

GS functions (mathematics)

Lagrangian function Euler-Lagrange equation kinetic energy Lagrange coordinates Lagrange multipliers potential energy

Laguerre functions

analysis (mathematics) . complex variables . Laguerre functions functions (mathematics)

Laguerre functions RT orthogonal functions

LA-ICP-MS (spectrometry)

(added March 2001)

USE inductively coupled plasma mass spectrometry

lake beds

USE beds (geology)

## Lake Champlain Basin (NY-VT)

landforms

. structural basins

. Lake Champlain Basin (NY-VT)

Canada lakes New York Vermont

## Lake Erie

lakes GS

. Great Lakes (North America) . Lake Erie

hydrology RT rivers streams water water management

## Lake Huron

RT

GS lakes

. Great Lakes (North America)

. Lake Huron hydrology rivers

Saginaw Bay (MI)

water management

lake ice

DEF Ice formed on lakes, regardless of observed location; it is usually freshwater ice.

GS

. lake ice . ice floes bay ice RT ice formation land ice sea ice

water

## Lake Michigan

lakes

. Great Lakes (North America)

. Lake Michigan

hydrology rivers streams water

water management

#### Lake Ontario

GS lakes

. Great Lakes (North America)

Lake Ontario hydrology RT rivers

> streams water

water management

#### Lake Pontchartrain (LA)

GS lakes

Lake Pontchartrain (LA)

RT Louisiana

#### Lake Superior

lakes GS

. Great Lakes (North America)

Lake Superior

RT hydrology rivers streams water

water management

## Lake Tahoe (CA-NV)

lakes GS

Lake Tahoe (CA-NV) RT

California Nevada

## Lake Texoma (OK-TX)

GS lakes

Lake Texoma (OK-TX)

limnology Oklahoma reservoirs texas vadose water

Inland bodies of standing water occupying depressions in the Earth's surface, generally of appreciable size (larger than a pond) and too deep to permit vegetation (excluding subaqueous vegetation) to take root completely across the expanse of water; the water may be fresh or saline. The term includes expanded parts of rivers, reservoirs behind dams, or lake basins intermittently or formerly covered by wa-

. Great Lakes (North America)

. . Lake Erie

Lake Huron . . Lake Michigan

Lake Ontario . . Lake Superior

. Great Salt Lake (UT) . Lake Pontchartrain (LA) . Lake Tahoe (CA-NV)

. Lake Texoma (OK-TX)

. Pyramid Lake (NV)

aquifers bayous beaches

coasts Earth hydrosphere eutrophication inland waters kettles (geology)

lagoons

Lake Champlain Basin (NY-VT)

lake ice limnology playas ponds regional planning

reservoirs river basins shoals shorelines springs (water) straits surface water thermal pollution water circulation water color water depth water resources waterways

#### Lallemand cameras

GS optical equipment

. cameras

. Lallemand cameras

photographic equipment

. cameras

Lallemand cameras

astronomical photography electro-optical photography image converters image intensifiers image transducers light amplifiers

spectroscopy television cameras

## Lamb waves

DEF Waves that propagate within the thickness of a thin plate, and that can only be generated at particular values of angle of incidence, frequency, and plate thickness. The velocity of the wave is dependent on the mode and the product of plate thickness and frequency.

GS elastic waves

. sound waves

. . Lamb waves RT acoustic properties

acoustics

Sturm-Liouville theory ultrasonic tests

## Lambda rocket vehicles

GS rocket vehicles

. multistage rocket vehicles

. . Lambda rocket vehicles

. sounding rockets

. Lambda rocket vehicles solid propellant rocket engines ∞ vehicles

## Lambda Tauri stars

GS celestial bodies

. stars

. . double stars

. . . binary stars . . . . eclipsing binary stars . Lambda Tauri stars

. . variable stars

... Lambda Tauri stars

Lambert law

USE Bouguer law

## Lambert surface

RT reflection

∞ surface geometry surfaces

Lame functions

GS functions (mathematics)

land Lame functions flow geometry composite materials boundary value problems flow stability debonding (materials) 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 interlaminar stress multiphase flow acoustics Newton pressure law interlayers open channel flow elastic waves ∞ layers  $\infty$  equations orifice flow lay-up Sturm-Liouville theory parallel flow magnetic cores wave propagation pipe flow ∞ materials Prandtl-Meyer expansion matrix materials Rayleigh-Benard convection Reynolds number lamella metal bonding metallizing RT bones Roshko prediction single-phase flow steady flow steam flow multilayer insulation lamella (metallurgy) netting (materials/structures) Crystalline materials whose grains are papers plating in the form of thin sheets. Tollmien-Schlichting waves ∞ transition layers aluminum alloys ply orientation polymer matrix composites copper alloys crystallography turbulent flow prepregs eutectic alloys reinforced plastics two phase flow microstructure uniform flow reinforced plates unsteady flow sandwich structures lamina viscous drag  $\infty$  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 laminar flow airfoils laminations the wall is large. Used for laminar boundary USE laminates 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** GS boundary layers . laminar boundary layer LAMPS program laminar heat transfer boundary layer combustion USE Light Airborne Multipurpose 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
Pohlhausen method
supersonic boundary layers missiles turbulent heat transfer GS . surface to surface missiles . Lance missile laminar jets thermal boundary layer three dimensional boundary layer liquid propellant rocket engines
Trailblazer 1 reentry vehicle jet flow USE laminar flow turbulent boundary layer two dimensional boundary layer TX-77 engine 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 level. The inclusion of Antarctica's permanent laminar mixing laminar boundary layer separation fluid injection boundary layer separation laminar boundary layer USE gas mixtures ice in calculating the land surface of the Earth is mixing layers (fluids) turbulent mixing controversial. land laminar flames GS laminar wakes Allegheny Plateau (US) USE flames laminar flow arid lands GS wakes laminar wakes badlands laminar flow aircraft wakes barren land DEF In fluid flow, a smooth flow in which no turbulent wakes Cascade Range (CA-OR-WA) Colorado Plateau (US) crossflow of fluid particles occurs between adjacent stream lines; hence, a flow conceived as laminated materials . deserts made up of layers -- commonly distinguished from turbulent flow. Used for laminar flames, USE laminates . . Gobi desert Libyan desert laminar jets, Poiseuille flow, and streamline flow. 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 . farmlands Poiseuille flow for laminated materials, laminations, and multi-. grasslands streamline flow . . Llanos Orientales (Colombia) layer structures. fluid flow laminated materials . isthmuses . laminar flow laminations . parks

multilayer structures

composite structures

boron-epoxy composites cladding clamped structures

laminates

plywood

. . Boral

bonding

coatings

. . Blasius flow

aerodynamics

. . Hartmann flow

. stratified flow

atmospheric turbulence

boundary layer transition capillary flow critical flow

Falkner-Skan equation

flow characteristics

. national parks

. . coastal plains

. . flood plains

. . pampas

. . playas

. . tundra

. plains

... Yellowstone National Park

(ID-MT-WY)

. . Llanos Orientales (Colombia)

	. rangelands	SPOT (French satellite)	Assateague Island (MD-VA)
	. wetlands	Starsite program	atolls
	marshlands	suburban areas	Azores
RT	capes (landforms)	urban development	Bahrain
	desertification	urban planning	Bermuda
	desertline	urban research	Canary Islands
	peninsulas residential areas	Landau damping	Cyprus
	rural areas	DEF The damping of a space charge wave	Greenland
	rural land use	by electrons which move at the phase velocity of	Hawaii
	sites	the wave and gain energy transferred from the	Iceland
	sod	wave.	Indonesia
	soils	GS damping	Ireland
	topography	. Landau damping	keys (islands) Long Island (NY)
land ice		RT electron plasma Landau factor	Madagascar
DEF	Any ice masses formed from snow,	magnetic damping	Maldive Islands
	ther freshwater on land, as ice shelves	phase velocity	Malta
	rs, even though they may be floating in	plasma waves	Mauritius
	icebergs.	space charge	Merritt Island (FL)
UF	ice shelves	· · · · ·	Newfoundland
GS	ice	Landau factor	nunataks
	. land ice	RT atomic energy levels	Pacific islands Guam
	resources	atomic theory	Japan
	. Earth resources	Landau damping plasmas (physics)	Johnston Island
RT	Antarctic regions	superconductivity	Kurile Islands
	glacial drift	caporoonadouvity	New Guinea (island)
	glaciers	Landau-Ginzburg equations	New Zealand
	icebergs	RT ∞ equations	Philippines
	lake ice	quantum electrodynamics	Samoa
	sea ice	superconductivity	Prince Edward Island
		I4611-	Seychelles
	nagement	landfills  DEF Disposal sites for solid wastes which	Sicily Tasmania
GS	management . 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
	urban planning	waste disposal	Cuba
	wilderness	waste management	Dominica
	1. No. 2. 1. 1191	waste utilization	Grenada
	A proposed radio relay satellite system	water pollution	Guadeloupe Haiti
	A proposed radio relay satellite system	landforms	Jamaica
for corvi			
	ng thinly populated or large geographi-		
cal area	S.	DEF Any physical recognizable forms or features of the Earth's surface, having charac-	Lesser Antilles Martinique
		DEF Any physical recognizable forms or	Lesser Antilles
cal area	s. mobile communication systems	DEF Any physical recognizable forms or features of the Earth's surface, having charac-	Lesser Antilles Martinique
cal area GS	s. mobile communication systems land mobile satellite service communication satellites ground stations	DEF Any physical recognizable forms or features of the Earth's surface, having characteristic shapes, and produced by natural causes. Landforms include major forms such a plains, plateaus, and mountains and minor forms such	Lesser Antilles Martinique Puerto Rico Trinidad and Tobago Virgin Islands
cal area GS	mobile communication systems I and mobile satellite service communication satellites ground stations MSAT	DEF Any physical recognizable forms or features of the Earth's surface, having characteristic 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.	Lesser Antilles Martinique Puerto Rico Trinidad and Tobago Virgin Islands .isthmuses
cal area GS	s. mobile communication systems land mobile satellite service communication satellites ground stations	DEF Any physical recognizable forms or features of the Earth's surface, having characteristic 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	Lesser Antilles Martinique Puerto Rico Trinidad and Tobago Virgin Islands . isthmuses . lagoons
cal area GS RT	mobile communication systems I and mobile satellite service communication satellites ground stations MSAT radio communication	DEF Any physical recognizable forms or features of the Earth's surface, having characteristic 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.	Lesser Antilles Martinique Puerto Rico Trinidad and Tobago Virgin Islands . isthmuses . lagoons . Magdalena-Cauca Valley (Colombia)
cal area GS RT	mobile communication systems land mobile satellite service communication satellites ground stations MSAT radio communication  face temperature	DEF Any physical recognizable forms or features of the Earth's surface, having characteristic 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	Lesser Antilles Martinique Puerto Rico Trinidad and Tobago Virgin Islands .isthmuses .lagoons . Magdalena-Cauca Valley (Colombia)
cal area GS RT	mobile communication systems I and mobile satellite service communication satellites ground stations MSAT radio communication  face temperature of February 1993)	DEF Any physical recognizable forms or features of the Earth's surface, having characteristic 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	Lesser Antilles Martinique Puerto Rico Trinidad and Tobago Virgin Islands .isthmuses .lagoons . Magdalena-Cauca Valley (Colombia) .massifs .mountains
cal area GS RT	mobile communication systems land mobile satellite service communication satellites ground stations MSAT radio communication  face temperature	DEF Any physical recognizable forms or features of the Earth's surface, having characteristic 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	Lesser Antilles Martinique Puerto Rico Trinidad and Tobago Virgin Islands .isthmuses .lagoons . Magdalena-Cauca Valley (Colombia)
cal area GS RT	mobile communication systems . land mobile satellite service communication satellites ground stations MSAT radio communication  face temperature d February 1993) surface properties	DEF Any physical recognizable forms or features of the Earth's surface, having characteristic 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	Lesser Antilles Martinique Puerto Rico Trinidad and Tobago Virgin Islands .isthmuses .lagoons . Magdalena-Cauca Valley (Colombia) .massifs .mountains Adirondack Mountains (NY)
cal area GS RT	mobile communication systems . land mobile satellite service communication satellites ground stations MSAT radio communication  face temperature of February 1993) surface properties . surface temperatureland surface temperature temperature	DEF Any physical recognizable forms or features of the Earth's surface, having characteristic 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)	Lesser Antilles Martinique 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
cal area GS RT	mobile communication systems . land mobile satellite service communication satellites ground stations MSAT radio communication  face temperature of February 1993) surface properties . surface temperature . land surface temperature temperature . surface temperature . surface temperature	DEF Any physical recognizable forms or features of the Earth's surface, having characteristic 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) . beds (geology)	Lesser Antilles Martinique 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)
cal area GS RT land sui (adde GS	mobile communication systems . land mobile satellite service communication satellites ground stations MSAT radio communication  face temperature d February 1993) surface properties . surface temperature . land surface temperature temperature . surface temperature . land surface temperature	DEF Any physical recognizable forms or features of the Earth's surface, having characteristic 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	Lesser Antilles Martinique 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) Bighorn Mountains (MT-WY)
cal area GS RT	mobile communication systems . land mobile satellite service communication satellites ground stations MSAT radio communication  face temperature d February 1993) surface properties . surface temperature land surface temperature temperature surface temperature surface temperature land surface temperature	DEF Any physical recognizable forms or features of the Earth's surface, having characteristic 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	Lesser Antilles Martinique 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) . Bighorn Mountains (MT-WY) . Black Hills (SD-WY)
cal area GS RT land sui (adde GS	mobile communication systems land mobile satellite service communication satellites ground stations MSAT radio communication  face temperature d February 1993) surface properties . surface temperature . land surface temperature temperature . surface temperature . surface temperature temperature . surface temperature air land interactions atmospheric temperature	DEF Any physical recognizable forms or features of the Earth's surface, having characteristic 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	Lesser Antilles Martinique 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) Bighorn Mountains (MT-WY) Black Hills (SD-WY) Carpathian Mountains (Europe)
cal area GS RT land sui (adde GS	mobile communication systems . land mobile satellite service communication satellites ground stations MSAT radio communication  face temperature d February 1993) surface properties . surface temperature land surface temperature temperature surface temperature surface temperature land surface temperature	DEF Any physical recognizable forms or features of the Earth's surface, having characteristic 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	Lesser Antilles Martinique 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) Bighorn Mountains (MT-WY) Black Hills (SD-WY) Carpathian Mountains (Europe) Cascade Range (CA-OR-WA)
cal area GS RT land sui (adde GS	mobile communication systems . land mobile satellite service communication satellites ground stations MSAT radio communication  face temperature of February 1993) surface properties . surface temperature land surface temperature temperature . surface temperature land surface temperature air land interactions atmospheric temperature sea surface temperature	DEF Any physical recognizable forms or features of the Earth's surface, having characteristic 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) . beds (geology) . salt beds . bridges (landforms) . calderas . canals	Lesser Antilles Martinique 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) Bighorn Mountains (MT-WY) Black Hills (SD-WY) Carpathian Mountains (Europe)
cal area GS RT land sui (adde GS	mobile communication systems . land mobile satellite service communication satellites ground stations MSAT radio communication  face temperature of February 1993) surface properties . surface temperature land surface temperature temperature . surface temperature land surface temperature air land interactions atmospheric temperature sea surface temperature	DEF Any physical recognizable forms or features of the Earth's surface, having characteristic 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) . beds (geology) . salt beds . bridges (landforms) . calderas . canals . canyons	Lesser Antilles Martinique 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) Bighorn Mountains (MT-WY) Black Hills (SD-WY) Carpathian Mountains (Europe) Cascade Range (CA-OR-WA) Caucasus Mountains (U.S.S.R.)
cal area GS RT land sun (adde GS	mobile communication systems . land mobile satellite service communication satellites ground stations MSAT radio communication  face temperature of February 1993) surface properties . surface temperature . land surface temperature emperature land surface temperature air land interactions atmospheric temperature sea surface temperature sea surface temperature  land interactions atmospheric temperature sea surface temperature sea surface temperature	DEF Any physical recognizable forms or features of the Earth's surface, having characteristic 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	Lesser Antilles Martinique 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) Bighorn 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
cal area GS RT land sun (adde GS	mobile communication systems . land mobile satellite service communication satellites ground stations MSAT radio communication  face temperature of February 1993) surface properties . surface temperature . land surface temperature temperature . land surface temperature air land interactions atmospheric temperature sea surface temperature sea surface temperature sea surface temperature sea rural land use AgRISTARS project	DEF Any physical recognizable forms or features of the Earth's surface, having characteristic 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) . beds (geology) . salt beds . bridges (landforms) . calderas . canals . canyons . Grand Canyon (AZ) . capes (landforms) . Cape Hatteras (NC) . cones (volcanoes)	Lesser Antilles Martinique 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) Bighorn 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)
cal area GS RT land sui (adde GS	mobile communication systems . land mobile satellite service communication satellites ground stations MSAT radio communication  face temperature of February 1993) surface properties . surface temperature . land surface temperature temperature . surface temperature air land interactions atmospheric temperature sea surface temperature sea surface temperature sea surface temperature sea surface temperature sea rural land use AgRISTARS project airport planning	DEF Any physical recognizable forms or features of the Earth's surface, having characteristic 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) . beds (geology) . salt beds . bridges (landforms) . calderas . canals . canyons . Grand Canyon (AZ) . capes (landforms) . Cape Hatteras (NC) . cones (volcanoes) . cusps (landforms)	Lesser Antilles Martinique 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) Bighorn 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)
cal area GS RT land sui (adde GS	mobile communication systems Iand mobile satellite service communication satellites ground stations MSAT radio communication  face temperature d February 1993) surface properties . surface temperature . land surface temperature temperature . surface temperature . surface temperature air land surface temperature air land interactions atmospheric temperature sea surface temperature sea surface temperature sea surface temperature sea fund use AgRISTARS project airport planning barren land	DEF Any physical recognizable forms or features of the Earth's surface, having characteristic 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	Lesser Antilles Martinique 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) Bighorn 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 (Europe)
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	. ravines		runway lights		speed indicators
	. St Lawrence Valley (North America)		. arresting gear		Landa.
	steppes		. instrument landing systems	landing	
	. structural basins		all-weather landing systems	GS	loads (forces)
	cirques (landforms)		. landing instruments		. dynamic loads
	Great Basin (US)		approach indicators		transient loads
	Kalahari Basin (Africa)		. landing radar		landing loads
	karst		. microvision landing aid	RT	deceleration
	sinkholes		. microwave landing systems		impact loads
	kettles (geology)		microwave scanning beam landing		shock loads
	Lake Champlain Basin (NY-VT)		system		structural design criteria
	river basins	RT ∝	aids		
	Atchafalaya River Basin (LA)		air traffic control	landing	mats
	Chena River Basin (AK)		air traffic controllers (personnel)	RT	aircraft landing
	Columbia River Basin		airborne radar approach		airports
	(ID-OR-WA)		aircraft equipment		military air facilities
	Delaware River Basin (US)		aircraft instruments		runways
	Feather River Basin (CA)		aircraft landing		,
	Missouri River Basin (US)		aircraft safety	landing	modules
	Susquehanna River Basin		airport towers	GS	modules
	(MD-NY-PA)		airports		. spacecraft modules
	Wabash River Basin (IL-IN-OH)		antiskid devices		landing modules
	wadis		approach		lunar landing modules
	watersheds		approach control		Lunar Module
	Williston Basin (North America)		automatic pilots		Apollo lunar experiment
	. terraces (landforms)		enhanced vision		module
	,		ground based control		LSSM
	plateaus		•		Lunar Module 5
	Allegheny Plateau (US)		ground support equipment		Lunar Module 7
	Colorado Plateau (US)		head-up displays		Altair Lunar Lander
	Great Basin (US)		heliports		
	mesas		instrument approach		Mars Excursion Module
	buttes		military air facilities		soft landing spacecraft
	piedmonts		National Aviation System		. landing modules
	Central Piedmont (US)		navigation aids		lunar landing modules
	. volcanoes		PLAT system		Lunar Module
	Mars volcanoes		radar approach control		Apollo lunar experiment module
RT	archipelagoes		radio beacons		LSSM
	crossbedding (geology)		runways		Lunar Module 5
	ditches		safety devices		Lunar Module 7
	earthquake resistance		solar compasses		Altair Lunar Lander
0	faults		•		Mars Excursion Module
	geological faults	landina			spacecraft components
	glacial drift	landing			spacecraft modules
	landmarks		The apparatus comprising those com-		landing modules
	landslides		of an aircraft or spacecraft that support		lunar landing modules
~	platforms		ride mobility for the craft on land, water,		Lunar Module
	∍ ridges		surface. The landing gear consists of		Apollo lunar experiment
~	seamounts		floats, skis,bogies, and treads, or other		module
			together with all associated struts,		LSSM
	slopes	bracing,	or shock absorbers. Used for retract-		Lunar Module 5
	structural properties (geology)	able lan	ding gear.		Lunar Module 7
	terrain	UF	retractable landing gear		Altair Lunar Lander
	topography	RT	aircraft parts		
			aircraft tires	DT	Mars Excursion Module
landing			airframes	RT	Apollo spacecraft
GS	landing	∞	bicycle		interplanetary spacecraft
	. aircraft landing		brakes (for arresting motion)		launch vehicles
	. blind landing		carriages		maneuverable spacecraft
	glide landings		fairings		manned spacecraft
	horizontal spacecraft landing		floats		reentry vehicles
	. hard landing	~	gear		reusable spacecraft
	. soft landing	~	hydrofoils		space capsules
	. spacecraft landing		nose wheels		spacecraft docking modules
	horizontal spacecraft landing		retractable equipment		
	1		self alignment	landing	radar
	lunar landing planetary landing		shock absorbers	GS	landing aids
					. landing radar
	Mars landing		skidding		radar
	. ditching (landing)		skis		. landing radar
	. emergency landing		spray ingestion	RT	air traffic control
	. touchdown		tires		aircraft landing
	. vertical landing		undercarriages		aircraft safety
	. water landing		vehicle wheels		approach control
RT	air traffic control		wheel brakes		instrument approach
	approach		wheels		radar approach control
	approach and landing tests (STS)				radar approach control
	arrivals	landina	instruments	landina	simulation
	guidance (motion)		landing aids		
	instrument flight rules	GS	. landing instruments	us	simulation
	instrument landing systems			DT	. landing simulation
	maneuvers	DT	approach indicators	RT	altitude simulation
	runways	RT	air traffic control		atmospheric entry simulation
	takeoff		aircraft equipment		computerized simulation
	visual flight		aircraft instruments		flight simulation
	vioual iligit		altimeters		spacecraft landing
			automatic control		training simulators
landing	aids		blind landing		
UF	landing systems		flight instruments	landing	sites
GS	landing aids		instrument landing systems		sites
-	. airport beacons		manual control		. landing sites
	discrete address beacon system		measuring instruments		lunar landing sites
	. airport lights		radar approach control		Mars landing sites
	· por ngo		app. 00001 00111101		

RT	heliports Mars Pathfinder		Landsat E		weightlessness simulation
	recovery zones	Landsat	r F	Langmu	iir monolayers
	runways trajectory control	UF	Earth Resources Technology Satellite F		ed March 2001) monomolecular films
			EOS-B		
landing			ERTS-F		ir probes
GS	rates (per time) . landing speed	GS	artificial satellites	USE	electrostatic probes
	velocity		. Landsat satellites	Langmi	uir turbulence
	. landing speed		Landsat F		ed August 1994)
RT	high speed				turbulence
	low speed	Landsat	t follow-on missions	0.0	. magnetohydrodynamic turbulence
			LFO		plasma turbulence
landing	systems	RT ∝	missions		Langmuir turbulence
USE	landing aids		multimission modular spacecraft	RT	Auger effect
					magnetohydrodynamic stability
landma		Landsat	t satellites		plasma dynamics
RT	landforms terrain	UF	Earth Resources Technology		plasma heating
	topography		Satellites		plasma oscillations
	topography	00	ERTS		plasma waves thin films
Landsa	11	GS	artificial satellites . Landsat satellites		tilli illiis
UF	Earth Resources Technology Satellite		. Landsat satellites	Langm	uir-Blodgett films
	1		Landsat 1		ed March 1993)
	ERTS-A		Landsat 3		thin films
GS	artificial satellites		Landsat 4		. monomolecular films
	. Landsat satellites		Landsat 5		Langmuir-Blodgett films
	Landsat 1		Landsat 6		coatings
Landsa			Landsat 7	۰	o films
UF	Earth Resources Technology Satellite		Landsat E		integrated optics
01	B		Landsat F		molecular electronics
	ERTS-B	RT	AgRISTARS project		polymeric films
GS	artificial satellites		data products	longue	a programming
	. Landsat satellites		Earth observations (from space)		ge programming computer programming
	Landsat 2		Earthnet	ao	. language programming
			Mapsat	RT	computer assisted instruction
Landsa			NASA programs oceanography		data processing
DEF	The third Landsat satellite (Landsat C)		satellite observation		high level languages
	fully launched and in orbit. Used for		SEASAT 1		languages
	esources Technology Satellite C and		SEASAT program		machine oriented languages
ERTS-C			SEASAT satellites		machine translation
UF	Earth Resources Technology Satellite C		SEASAT-B satellite		symbolic programming
	C			0	∘ translators
	FRTS_C		Synchronous Earth Observatory		
GS	ERTS-C artificial satellites		Synchronous Earth Observatory satellite		
GS	artificial satellites			langua	ges
GS		landscaj	satellite	langua	ges languages
GS RT	artificial satellites . Landsat satellites	landscaj USE	satellite	langua	ges languages . command languages
RT	artificial satellites . Landsat satellites Landsat 3 plasma interaction experiment		satellite	langua	ges languages command languages query languages
RT <b>Landsa</b>	artificial satellites . Landsat satellites . Landsat 3 plasma interaction experiment		satellite pe terrain	langua	languages . command languages . query languages . document markup languages
RT	artificial satellites . Landsat satellites . Landsat 3 plasma interaction experiment t 4 Earth Resources Technology Satellite		satellite  pe terrain topography	langua	languages . command languages . oquery languages . document markup languages . English language
RT <b>Landsa</b>	artificial satellites . Landsat satellites . Landsat 3 plasma interaction experiment  4  Earth Resources Technology Satellite D	USE	satellite  pe terrain topography	langua	languages . command languages . query languages . document markup languages
RT <b>Landsa</b> UF	artificial satellites . Landsat satellites Landsat 3 plasma interaction experiment  4 Earth Resources Technology Satellite D ERTS-D	USE Iandslid	satellite  pe terrain topography	langua	languages . command languages . query languages . document markup languages . English language . hardware description languages
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RT  Landsar GS  RT  Landsar GS  RT  Landsar (adde GS  RT  Landsar (adde GS	artificial satellites . Landsat satellites . Landsat 3 plasma interaction experiment  4	landslid DEF of mass involving tional in masse. over a shear. GS RT	satellite  terrain topography  les  A general term covering a wide variety movement landforms and processes gluence, of soil and rock material en Usually the displaced material moves relatively confined zone or surface of  Earth movements . landslides cliffs flood damage landforms rain erosion rocks slopes soil erosion soils storm damage  paths  in formula dispersing ferromagnetism magnetic moments	langua <sub>(</sub> GS	languages . command languages . query languages . query languages . document markup languages . English language hardware description languages . hacdol . APL (programming language) . Assembly language . autocoders . COMPASS (programming language) . MAP (programming language) . MAP (programming language) . MAP (programming language) . Cobol . COGO (programming language) . Cototext free languages . Forth (programming language) . FORTRAN . HAL/S (language) . high level languages . Ada (programming language) . C (programming language) . C (programming language) . Java (programming language) . Java (programming language) . Java (programming language) . Java (programming language) . His (programming language) . machine oriented languages . natural language (computers) . Pascal (programming language) . PL/1 . Prolog (programming language)
RT  Landsar GS  RT  Landsar GS  RT  Landsar (adde GS  RT  Landsar (adde GS	artificial satellites . Landsat satellites . Landsat 3 plasma interaction experiment  4	landslid DEF of mass involving tional in masse. over a shear. GS RT  lanes USE  Langevi RT	satellite  terrain topography  les  A general term covering a wide variety movement landforms and processes gland fluence, of soil and rock material en Usually the displaced material moves relatively confined zone or surface of  Earth movements landslides cliffs flood damage landforms rain erosion rocks slopes soil erosion soils storm damage  paths  in formula dispersing ferromagnetism magnetic moments  complex coordinator	langua <sub>(</sub> GS	languages . command languages . query languages . document markup languages . English language . hardware description languages . programming languages . ALGOL . APL (programming language) . Assembly language . autocoders . COMPASS (programming language) . MAP (programming language) . BASIC (programming language) . Cobol . COGO (programming language) . Cohol . COGO (programming language) . Forth (programming language) . Forth (programming language) . Cotol . COGO (programming language) . Cotol . COGO (programming language) . Forth (programming language) . LISP (programming language) . Java (programming language) . Pascal (programming language) . Pascal (programming language) . Pl/1 . Prolog (programming language) alphabets articulation (speech) coding
RT  Landsar GS RT  Landsar GS RT  Landsar (adde GS RT  Landsar (adde GS RT	artificial satellites . Landsat satellites . Landsat 3 plasma interaction experiment  4	landslid DEF of mass involving tional in masse. over a shear. GS RT  lanes USE  Langevi RT	satellite  terrain topography  les  A general term covering a wide variety movement landforms and processes the downslope tranport, under gravita- fluence, of soil and rock material en Usually the displaced material moves relatively confined zone or surface of  Earth movements landslides cliffs flood damage landforms rain erosion rocks slopes soil erosion soils storm damage  paths  in formula dispersing ferromagnetism magnetic moments  complex coordinator simulators	langua <sub>(</sub> GS	languages . command languages . query languages . document markup languages . English language . hardware description languages . programming languages . ALGOL . APL (programming language) . Assembly language . autocoders . COMPASS (programming language) . MAP (programming language) . BASIC (programming language) . Cobol . COGO (programming language) . COGO (programming language) . Forth (programming language) . FORTRAN . HAL/S (language) . High level languages . Ada (programming language) . C (programming language) . LISP (programming language) . Java (programming language) . Pascal (programming language) . Pascal (programming language) . Pascal (programming language) . Pl/1 . Prolog (programming language) alphabets articulation (speech) coding communication theory
RT  Landsar GS  RT  Landsar GS  RT  Landsar (adde GS  RT  Landsar (adde GS	artificial satellites . Landsat satellites . Landsat 3 plasma interaction experiment  4	landslid DEF of mass involving tional in masse. over a shear. GS RT  lanes USE  Langevi RT	satellite  terrain topography  les  A general term covering a wide variety movement landforms and processes g the downslope tranport, under gravita- fluence, of soil and rock material en Usually the displaced material moves relatively confined zone or surface of  Earth movements . landslides cliffs flood damage landforms rain erosion rocks slopes soil erosion soils storm damage  paths  in formula dispersing ferromagnetism magnetic moments  complex coordinator simulators . environment simulators	langua <sub>(</sub> GS	languages . command languages . query languages . query languages . document markup languages . English language hardware description languages . hardware description languages . ALGOL . APL (programming language) . Assembly language . autocoders . COMPASS (programming language) . MAP (programming language) . MAP (programming language) . BASIC (programming language) . Cobol . COGO (programming language) . context free languages . Forth (programming language) . FORTRAN . HAL/S (language) . high level languages . Ada (programming language) . C (programming language) . C++ (programming language) . LISP (programming language) . Java (programming language) . LISP (programming language) . machine oriented languages . natural language (computers) . Pascal (programming language) . PL/1 . Prolog (programming language) alphabets articulation (speech) coding communication theory grammars
RT  Landsar GS  RT  Landsar (adde GS)  RT  Landsar (adde GS)  RT  Landsar (adde GS)  RT	artificial satellites . Landsat satellites . Landsat 3 plasma interaction experiment  4	landslid DEF of mass involving tional in masse. over a shear. GS RT  lanes USE  Langevi RT	satellite  terrain topography  les  A general term covering a wide variety movement landforms and processes githe downslope tranport, under gravita- fluence, of soil and rock material en Usually the displaced material moves relatively confined zone or surface of  Earth movements . landslides cliffs flood damage landforms rain erosion rocks slopes soil erosion soils storm damage  paths  in formula dispersing ferromagnetism magnetic moments  complex coordinator simulators . environment simulators . space simulators . space simulators	langua <sub>(</sub> GS	languages . command languages . query languages . document markup languages . English language . hardware description languages . programming languages . ALGOL . APL (programming language) . Assembly language . autocoders . COMPASS (programming language) . MAP (programming language) . BASIC (programming language) . Cobol . COGO (programming language) . COGO (programming language) . Forth (programming language) . FORTRAN . HAL/S (language) . High level languages . Ada (programming language) . C (programming language) . LISP (programming language) . Java (programming language) . Pascal (programming language) . Pascal (programming language) . Pascal (programming language) . Pl/1 . Prolog (programming language) alphabets articulation (speech) coding communication theory
RT  Landsar GS  RT  Landsar (adde GS)  RT  Landsar (adde GS)  RT  Landsar (adde GS)  RT	artificial satellites . Landsat satellites . Landsat 3 plasma interaction experiment  4	landslid DEF of mass involving tional in masse. over a shear. GS RT  lanes USE  Langevi RT  Langley GS	satellite  terrain topography  les  A general term covering a wide variety movement landforms and processes g the downslope tranport, under gravita- fluence, of soil and rock material en Usually the displaced material moves relatively confined zone or surface of  Earth movements . landslides cliffs flood damage landforms rain erosion rocks slopes soil erosion soils storm damage  paths  in formula dispersing ferromagnetism magnetic moments  complex coordinator simulators . environment simulators	langua <sub>(</sub> GS	languages . command languages . query languages . query languages . document markup languages . English language hardware description languages . hardware description languages . hardware description languages . hardware description languages . ALGOL . APL (programming language) . Assembly language . autocoders . COMPASS (programming language) . MAP (programming language) . BASIC (programming language) . Cobol . COGO (programming language) . context free languages . Forth (programming language) . Cother (programming language) . Cothigh languages . Ada (programming language) . C++ (programming language) . C++ (programming language) . LISP (programming language) . Java (programming language) . LISP (programming language) . machine oriented languages . natural language (computers) . Pascal (programming language) . PL/1 . Prolog (programming language) alphabets articulation (speech) coding communication theory grammars language programming
RT  Landsar GS  RT  Landsar (adde GS)  RT  Landsar (adde GS)  RT  Landsar (adde GS)  RT  Landsar (adde GS)	artificial satellites . Landsat satellites . Landsat 3 plasma interaction experiment  4	landslid DEF of mass involving tional in masse. over a shear. GS RT  lanes USE  Langevi RT  Langley GS	satellite  terrain topography  les  A general term covering a wide variety movement landforms and processes gland downslope tranport, under gravita- fluence, of soil and rock material en Usually the displaced material moves relatively confined zone or surface of  Earth movements . landslides cliffs flood damage landforms rain erosion rocks slopes soil erosion soils storm damage  paths  in formula dispersing ferromagnetism magnetic moments  complex coordinator simulators . space simulators . space simulators . Langley complex coordinator	langua <sub>(</sub> GS	languages . command languages . query languages . document markup languages . English language . hardware description languages . programming languages . ALGOL . APL (programming language) . Assembly language . autocoders . COMPASS (programming language) . MAP (programming language) . BASIC (programming language) . Cobol . COGO (programming language) . Cohol . COGO (programming language) . Forth (programming language) . Forth (programming language) . Copor (programming language) . Copor (programming language) . Forth (programming language) . HAL/S (language) . high level languages . Ada (programming language) . C (programming language) . Java (programming language) . Java (programming language) . Java (programming language) . Java (programming language) . HISP (programming language) . machine oriented languages . natural language (computers) . Pascal (programming language) . PL/1 . Prolog (programming language) alphabets articulation (speech) coding communication theory grammars language programming linguistics
RT  Landsar GS  RT  Landsar (adde GS)  RT  Landsar (adde GS)  RT  Landsar (adde GS)  RT  Landsar (adde GS)	artificial satellites . Landsat satellites . Landsat 3 plasma interaction experiment  4	landslid DEF of mass involving tional in masse. over a shear. GS RT  lanes USE  Langevi RT  Langley GS	satellite  terrain topography  les  A general term covering a wide variety movement landforms and processes the downslope tranport, under gravita- fluence, of soil and rock material en Usually the displaced material moves relatively confined zone or surface of  Earth movements landslides cliffs flood damage landforms rain erosion rocks slopes soil erosion soils storm damage  paths  in formula dispersing ferromagnetism magnetic moments  complex coordinator simulators space simulators space simulators space simulators space simulators simulators simulators simulators flight simulators	langua <sub>(</sub> GS	languages . command languages . query languages . query languages . document markup languages . English language . hardware description languages . programming languages . ALGOL . APL (programming language) . Assembly language . autocoders . COMPASS (programming language) . MAP (programming language) . BASIC (programming language) . Cobol . COGO (programming language) . Cotol . COGO (programming language) . Forth (programming language) . FORTRAN . HAL/S (language) . high level languages . Ada (programming language) . C (programming language) . C (programming language) . LISP (programming language) . Java (programming language) . Java (programming language) . Java (programming language) . Java (programming language) . Pascal (programming language) . machine oriented languages . natural language (computers) . Pascal (programming language) . PL/1 . Prolog (programming language) alphabets articulation (speech) coding communication theory grammars language programming linguistics machine translation

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 lanthanum compounds
. lanthanum tellurides . . astronomical satellites verbal communication ... Large Deployable Reflector vowels words (language) observatories 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 GS chemical elements Large Deployable Reflector Laos . rare earth elements . reflecting telescopes GS nations . . lanthanum . Large Deployable Reflector Laos . spaceborne telescopes . . . lanthanum isotopes RT Asia metals Large Deployable Reflector infrared astronomy . rare earth elements lap joints . . lanthanum large space structures joints (junctions) ĞS reflectors . . lanthanum isotopes . 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 eddy viscosity mathematical models GS halogen compounds partial differential equations . chlorine compounds . . chlorides Poisson equation 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 ŬF LSI . integral transformations lanthanum compounds GS circuits . Laplace transformation . integrated circuits . lanthanum chlorides functions (mathematics) . . large scale integration microelectronics . lanthanum fluorides 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 arrays chemical elements 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 Large Area Crop Inventory Experiment orbital servicing . . lanthanum orbital space tests agriculture 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 Operations Center (NASA) Space Station Freedom

space station structures space stations space technology experiments spacecraft structures ∞ structures Large Space Telescope USE Hubble Space Telescope large-scale structure of the universe (added May 2002) DEF Distribution of matter in the universe at the largest scale including the distribution of galactic clusters and superclusters. UF LSS (cosmology) big bang cosmology cosmology dark matter galactic clusters galactic evolution missing mass (astrophysics) relic radiation string theory universe LARGOS satellite artificial satellites . geodetic satellites LARGOS satellite Explorer 29 satellite Explorer 36 satellite GEOS 1 satellite GEOS 2 satellite GEOS 3 satellite Larissa (added July 1995) DEF A natural satellite of Neptune, orbiting at a mean distance of 73,600 kilometers. GS celestial bodies . natural satellites . . Neptune satellites Larissa RT Neptune (planet) Larmor precession gyration GS . precession . Larmor precession cyclotron frequency cyclotron radiation Larmor radius DEF For a charged particle moving transversely in a uniform magnetic field, the radius of curvature of the projection of its path on a plane perpendicular to the field. Named after the English mathematician Sir Joseph Larmor (1857-1942). GŚ dimensions . radii . . Larmor radius geometry . Euclidean geometry . . radii . . Larmor radius cyclotron radiation gyromagnetism plasma physics precession larvae GS larvae bollworms silkworms RT animals arthropods infestation insects invertebrates pupa worms larvnx anatomy GS respiratory system . . larynx . . . glottis ... vocal cords

RT cartilage laser ablation (added February 1992) ablation laser ablation utilization . laser applications . laser ablation laser annealing laser beams laser damage laser drilling laser heating laser plasmas laser target interactions laser welding nanostructure growth laser altimeters GS measuring instruments . distance measuring equipment . . altimeters . . laser altimeters RT aircraft instruments altitude control Ice, Cloud and Land Elevation Satellite  $\infty$  instruments lasers optical radar satellite instruments spacecraft instruments laser anemometers DEF Measuring instruments in which the wind being measured passes through two perpendicular light beams and the resulting change in velocity of one or both beams is measured. measuring instruments . anemometers . laser anemometers flow velocity velocity measurement laser annealing DEF Rapid heating of metals and/or alloys with the use of lasers. GS heat treatment . annealing . laser annealing utilization laser applications . laser annealing heating laser ablation laser cutting lasers normalizing (heat treatment) recrystallization simulated annealing tempering laser applications GS utilization . laser applications . . laser ablation . . laser annealing . . laser cooling . . laser cutting . . laser deposition pulsed laser deposition . . laser drilling . . laser fusion . . laser guidance . . laser guide stars . . laser heating . . laser induced fluorescence . . laser interferometry . . laser machining . . laser microscopy . . laser power beaming laser propulsion . . laser spectroscopy . optogalvanic spectroscopy . . laser ranging

laser weapons

laser welding

airborne lasers

satellite laser ranging

data transmission hole burning laser-induced breakdown spectroscopy metal working optical data storage materials optical disks optical radar optical relay systems photoacoustic spectroscopy plasmadynamic lasers production engineering quantum electronics rapid ballistics identification spaceborne lasers speckle holography speckle interferometry technology utilization ultrashort pulsed lasers laser arrays (added January 1991) A group of laser emitters arranged to give a desired combined output. GS arrays . laser arrays coupled modes far fields laser beams laser modes laser outputs lasers linear arrays near fields optical coupling phased arrays semiconductor lasers stimulated emission devices surface emitting lasers laser beam defocusing USE thermal blooming laser beams (added September 1988) 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 beams (radiation) . light beams . . laser beams coherent radiation . coherent electromagnetic radiation laser beams electromagnetic radiation . coherent electromagnetic radiation . laser beams . light beams . laser beams beam steering beamforming four-wave mixing free-space optical communication holographic optical elements laser ablation laser arrays thermal lensing laser cavities UF optical generators cavities GS . laser cavities amplifiers laser stability lasers light amplifiers ∞ optics pulse generators semiconductor lasers solid state devices solid state lasers stimulated emission devices laser communication USE optical communication

laser cooling

(added March 1995)

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

. 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 ∞ materials science 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

laser drilling utilization . laser applications

laser drilling

RT focusina laser ablation laser cutting micromachining

laser fusion

GS utilization

. laser applications

laser fusion aspheric optics

∞ fusion

glass lasers high power lasers inertial fusion (reactor) Nova Laser System

plasmas (physics) Shiva laser system

Laser Geodynamic Satellite USE LAGEOS (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 quide 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

adaptive optics celestial reference systems

image processing instrument compensation laser guidance

reference stars star trackers

laser gyroscopes

Ring-laser angular rotation sensors for stabilizing and controlling large space structures, for space vehicle guidance, etc.

GS gyroscopes

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

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 plasma radiation

Laser Interferometer Gravitational-Wave Observatory

(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 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

GS 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 TRANSION AND INTERACTIONS OF LASER RADIATION USE 'LASER BEAMS') output

GS

#### 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 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 spectrum analysis

## laser stability

DEF Characteristic of a laser beam free from oscillations.

stability GS

. laser stability

continuous wave lasers

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 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 laser target interactions interplanetary communication interstellar masers Kerr electrooptical effect . lasers DEF Interactions where lasers are used to . . airborne lasers produce heating, fusion, or damage in targets. . . argon lasers RT ∞ interactions laser altimeters atmospheric lasers laser ablation laser annealing . . carbon lasers laser cutting laser arrays chemical lasers lasers laser cavities . . . HCL lasers pulsed lasers laser mode locking .... HCL argon lasers
.... chemical oxygen-iodine lasers targets laser plasmas laser pumping laser target interactions . . continuous wave lasers laser targets . . distributed feedback lasers Objects subjected to laser radiation, laser targets especially for laser fusion applications. . . free electron lasers laser weapons . . gamma ray lasers ĠS targets laser windows laser targets gas lasers 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 pulse generators pulsed radiation stimulated emission devices Nova Laser System Shiva laser system laser welding quantum amplifiers . . infrared lasers DEF Microspot welding with a laser beam. quantum electronics GS utilization . . injection lasers rapid ballistics identification . laser applications
. . laser welding
welding . quantum cascade lasers Senarmont polariscopes iodine lasers solid state devices . . . chemical oxygen-iodine lasers space communication stimulated emission . . liquid lasers . fusion welding . . metal vapor lasers . . neodymium lasers . . nuclear pumped lasers . laser welding thermal blooming RT bonding threshold currents heating transient oscillations laser ablation . . organic lasers traveling wave modulation pulsed lasers dye lasers plasmadynamic lasers soldering . . pulsed lasers lasing DEF DEF Generation of visible or IR light waves having very nearly a single frequency by pumping or exciting electrons into high energy states in a stimulated emission device (laser).

RT distributed feedback lasers Q switched lasers laser windows GS windows (intervals) ultrashort pulsed lasers laser windows ultraviolet lasers RT bandwidth Raman lasers energy bands . . ring lasers semiconductor lasers lasers electron transitions . . . aluminum gallium arsenide lasers excimer lasers laser-induced breakdown spectroscopy gallium arsenide lasers hole burning krypton fluoride lasers (added June 2001) quantum cascade lasers DEF A non-intrusive, spectroscopic techquantum well lasers lasers nique wherein a laser pulse is focused on the ... YLF lasers nitrogen lasers target sample to form a laser spark or plasma. solar-pumped lasers optical transition The emitted light from the spark is then used to . . solid state lasers rare gas-halide lasers identify elemental constituents and quantify aluminum gallium arsenide lasers

DBR lasers

fiber lasers

ruby lasers

YAG lasers

. . spaceborne lasers . . surface emitting lasers

. YLF lasers

tunable lasers

. . . gallium arsenide lasers

quantum well lasers

quantum cascade lasers

abundances of measured species.

RT

laser spark spectroscopy

spectroscopy

. laser-induced breakdown

absorption spectroscopy

emission spectra laser applications

laser plasmas

spectroscopy

LASS (spectroscopy)

LIBS (spectroscopy)

stimulated emission devices

surface emitting lasers

USE laser-induced breakdown

spectroscopy

LASS (spectroscopy)

LASV

(added June 2001)

USE F-111 aircraft

latches	directional control	. geomagnetic latitude
DEF Devices that fasten one thing to an-	elevons	RT coordinates
other, as a rocket to a launcher, but are subject	helicopter control	geodetic coordinates
to ready release so that things may be sepa-	longitudinal control	longitude
	•	•
rated.	manual control	position (location)
RT fasteners	missile control	
holders	roll	latitude measurement
linkages	satellite attitude control	RT longitude measurement
pins	satellite control	∞ measurement
pino	Satellite control	navigation
latab	lataval annillation	
latch-up	lateral oscillation	positioning
DEF A p-n-p-n self-sustaining low impe-	UF snaking	
dence state which is a type of electronic mal-	RT directional stability	lattice energy
function.	roll	(added March 2002)
RT CMOS	stability augmentation	DEF A measure of the stability of a crysta
	, ,	lattice, given by the energy that would be re
electrical impedance	transverse oscillation	leased in bringing constituent ions from an infi
integrated circuits	turning flight	
p-n-p-n junctions	wing rock	nite distance apart to their locations in a stable
switching circuits	yaw	lattice.
· ·	yawing moments	RT binding energy
late stars	yawing moments	crystal lattices
	lateral atability	∞ energy
GS celestial bodies	lateral stability	
. stars	UF dihedral effect	interatomic forces
late stars	laterality	ionic crystals
cool stars	GS dynamic characteristics	lattice parameters
carbon stars	. dynamic stability	lattice vibrations
	, ,	
flare stars	motion stability	lattice imperfections
K stars	attitude stability	lattice imperfections
M stars	lateral stability	USE crystal defects
Van Biesbroeck star	stability	
Mira variables	. dynamic stability	lattice parameters
		GS independent variables
Omicron Ceti star	motion stability	. lattice parameters
S stars	attitude stability	•
RT asymptotic giant branch stars	lateral stability	RT crystal lattices
dwarf stars	RT aerodynamic stability	crystallography
early stars	aircraft stability	lattice energy
		Patterson map
giant stars	dihedral angle	
main sequence stars	directional stability	superlattices
red dwarf stars	flow stability	x ray analysis
red giant stars	handedness	
stellar evolution	hovering stability	lattice vibrations
		GS vibration
subgiant stars	longitudinal stability	. lattice vibrations
	roll	
lateness	rolling moments	RT crystal defects
RT delay	rotary stability	crystal lattices
scheduling	spacecraft stability	forbidden bands
Soricading		lattice energy
total district	turning flight	particle motion
latent heat	vertical orientation	
DEF The unit quantity of heat required for		phonons
isothermal change in a state of a unit mass of	laterality	random vibration
matter. Latent heat is termed heat of fusion, heat	USE lateral stability	spin-lattice relaxation
of sublimation, heat of vaporization, depending	OOL MICHAE GLADINIY	thermal energy
on the change of state involved.	lateralization	∞ lattices
GS chemical properties	USE lateral control	
. thermochemical properties		SN (USE OF A MORE SPECIFIC TERM IS
latent heat	laterites	RECOMMENDEDCONSULT THE TERMS
heat of fusion	GS soils	LISTED BELOW)
		RT crystal lattices
heat of vaporization	. laterites	lattices (mathematics)
heat	RT decomposition	
. enthalpy	rocks	lattices (mathematics)
latent heat	tropical regions	UF sublattices
heat of fusion	water	GS mathematical logic
heat of vaporization		o o
·	latex	. lattices (mathematics)
thermodynamic properties		Boolean algebra
. enthalpy	RT acrylic resins	Boolean functions
latent heat	elastomers	RT communication theory
heat of fusion	rubber	Kakutani theorem
heat of vaporization	synthetic rubbers	∞ lattices
·	-,	
. thermochemical properties	lothoo	∞ mathematics
latent heat	lathes	∞ matrices
heat of fusion	GS tools	set theory
heat of vaporization	. machine tools	vortex lattice method
. thermophysical properties	lathes	
	turret lathes	Letvie
latent heat		Latvia
heat of fusion	RT ∞ construction materials	GS nations
heat of vaporization	grinding machines	. Latvia
		RT Baltic sea
latent heat of fusion	Latin square method	Europe
USE heat of fusion	DEF In mathematics, the use of an n x n	opo
OOL HEAL OF IDSION		Laus method
lataval a antual	square array of n different symbols, each symbol	Laue method
lateral control	appearing once in each row and once in each	GS x ray analysis
UF lateralization	column.	. Laue method
roll control	RT ∞ mathematics	RT crystal lattices
GS attitude control	∞ methodology	,
		crystallography
. lateral control	∞ variable	diffraction
RT ailerons		∞ methodology
aircraft control	latitude	x ray diffraction
altitude control	DEF Angular distance from a primary great	<b>,</b>
automatic control	circle or plane.	laughing
automatic totilloi		RT emotions
∞ control	GS latitude	

human reactions . recoverable launch vehicles to achieve a desired encounter, rendezvous, . reusable launch vehicles impact or the like. Used for launch time. 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 Specifically, structures or devices, oflaunch costs Saturn 1 SA-2 launch vehicle ten incorporating tubes, a group of tubes, or a RT cost reduction Saturn 1 SA-3 launch vehicle set of tracks, from which self-propelled missiles financial management are sent forth and by means of which the Saturn 1 SA-4 launch vehicle launch vehicles Saturn 1 SA-5 launch vehicle missiles usually are aimed or imparted initial spacecraft launching Saturn 1 SA-6 launch vehicle guidance -- distinguished in this specific sense Saturn 1 SA-7 launch vehicle the catapult. Broadly, structures, machines, or launch dates Saturn 1 SA-8 launch vehicle devices, including catapults, by means of which launching RT airplanes, rockets, or the like are directed, Saturn 1 SA-9 launch vehicle spacecraft launching hurled, or sent forth. Used for launching devices. Saturn 1B launch vehicles Saturn 2 launch vehicles launching devices turnaround (STS) launchers Saturn 5 launch vehicles Saturn D launch vehicle . aircraft launching devices 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 . hypervelocity launchers . missile launchers RT escape capsules . Thor launch vehicles escape rockets Thor Able rocket vehicle ∞ systems . . mobile missile launchers Thor Agena launch vehicle . rocket launchers Thor Delta launch vehicle . rocket catapults launch time . Thorad launch vehicles launch vehicles launching launching pads USE launch windows . . Thor Able rocket vehicle . . Thor Agena launch vehicle launch vehicle configurations Thor Delta launch vehicle Advanced Launch System (STS) launching sites Titan Centaur launch vehicle aerodynamic configurations . Titan launch vehicles mass drivers National Launch Vehicle Program . . 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-Advanced Launch System (STS) . . orbital launching faces) to space. aerospace planes . sea launching carrier rockets booster rocket engines . spacecraft launching launch vehicles . liftoff (launching) ∞ booster rockets . Ablestar launch vehicle ∞ boosters
Centaur project
exhaust clouds countdown . Ariane launch vehicle 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 missile launchers landing modules Atlas Agena launch vehicles
 Atlas Centaur launch vehicle
 Atlas SLV-3 launch vehicle National Launch Vehicle Program launch costs prelaunch tests launchers 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 Areas such as Cape Kennedy or Vanrocket catapults Delta 4 Heavy launch vehicle denburg Air Force Base that have several rocket engines Delta 4 launch vehicle launch sites. Used for launch complexes. rocket launchers . Diamant launch vehicle launch complexes rocket launching Eldo launch vehicle GS launching bases rocket vehicles Europa launch vehicles Cape Kennedy launch complex ∞ rockets Europa 1 launch vehicle RT ∞ facilities Saturn project Europa 2 launch vehicle ground support equipment 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 The load-bearing base or platform test vehicles Proton launch vehicle from which a rocket vehicle is launched. Titan project . Hyla-Star rocket vehicle sites vehicles . launching sites . Juno launch vehicles Vernier engines . . Juno 1 launch vehicle . launching pads ∞ winged vehicles Juno 2 launch vehicle flame deflectors . Little Joe 2 launch vehicle gantry cranes Nomad launch vehicle launch windows ground support equipment

DEF The postulated openings in the continuum of time or of space, through which a spacecraft or missile must be launched in order

Nova launch vehicles

. RAM B launch vehicle

Pegasus air-launched booster

launchers

∞ pad

liftoff (launching)

## launching sites

 $\infty$  platforms

spacecraπ launching umbilical towers	∞ law politics	descriptive geometry ∞ design
unblical towers	regulations	∞ design ∞ drawing
launching sites	voting	drawings
DEF Defined areas from which a rocket	voting	engineering drawings
vehicle is launched, either, operationally or for	lawrencium	models
test purposes; specifically, at Cape Kennedy or	GS chemical elements	∞ plans
Vandenberg, any of the several areas equipped	. actinide series	surveys
to launch a rocket.	transuranium elements	Surveys
GS sites		lay-up
. launching sites	lawrencium	DEF Production of reinforced plastics by
. launching pads	. nuclides	positioning the reinforced material (such as
RT exhaust clouds	isotopes	glass) in the mold prior to impregnation with
gantry cranes	radioactive isotopes	resin.
ground support equipment	transuranium elements	RT aramid fibers
launchers	lawrencium	carbon fiber reinforced plastics
missile launchers	metals	
missile silos	. actinide series	composite materials composite structures
missiles	transuranium elements	•
	lawrencium	epoxy resins
National Launch Vehicle Program rocket catapults		fiber orientation
rocket launchers	laws	laminates
Tocket laurichers	GS laws	reinforcing fibers
lava	. Child-Langmuir law	stacking sequence (composite
DEF A general term for a molten extrusive;	. closure law	materials)
also, for the rock that is solidified from it.	. Coffin-Manson law	1
GS effusives	. conservation laws	Lazarev meteorite
. lava	. Fourier law	GS celestial bodies
	. Hookes law	. meteorites
geophysical fluids	. Kepler laws	iron meteorites
. lava	. Newton pressure law	Lazarev meteorite
RT aggregates	Newton second law	RT stony meteorites
calderas	. Newton-Busemann law	LO almontes
cones (volcanoes)	. Ohms law	LC circuits
Earth resources	. radiation laws	GS circuits
igneous rocks	Kirchhoff law of radiation	LC circuits
magma	Stefan-Boltzmann law	RT inductance
maria	Stokes law of radiation	network analysis
Mars volcanoes	. Biot-Savart law	network synthesis
minerals	. scaling laws	parametric amplifiers
regolith	. similitude law	RC circuits
rhyolite	. Snells law	RL circuits
rocks	. Tafel law	RLC circuits
soils	. Weber-Fechner law	time constant
volcanic eruptions	RT ∞ law	
volcanoes	rules	LCRE Reactor
	Tuics	HOE LINE OLD IN
volcanology	∞ Stokes law	USE Lithium Cooled Reactor
voicanology	∞ Stokes law	Experiment
Laval number		
Laval number GS dimensionless numbers	∞ layers	
Laval number	∞ <b>layers</b> SN (USE OF A MORE SPECIFIC TERM IS	Experiment
Laval number GS dimensionless numbers		<b>Experiment</b> <i>LDEF</i>
Laval number GS dimensionless numbers . Laval number	∞ layers  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	<b>Experiment</b> <i>LDEF</i>
Laval number GS dimensionless numbers . Laval number ratios		Experiment  LDEF  USE Long Duration Exposure Facility
Laval number GS dimensionless numbers . Laval number ratios	<ul> <li>✓ layers</li> <li>SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)</li> <li>UF lamina</li> </ul>	Experiment  LDEF USE Long Duration Exposure Facility  LDR (telescope)
Laval number GS dimensionless numbers . Laval number ratios . Laval number	<ul> <li>✓ layers</li> <li>SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)</li> <li>UF lamina plies</li> </ul>	Experiment  LDEF USE Long Duration Exposure Facility  LDR (telescope)
Laval number  GS dimensionless numbers . Laval number ratios . Laval number  Laves phases	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)     UF   lamina   plies     RT   anticlines	Experiment  LDEF USE Long Duration Exposure Facility  LDR (telescope) USE Large Deployable Reflector
Laval number  GS dimensionless numbers . Laval number ratios . Laval number  Laves phases (added August 1998)	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)     UF lamina plies     RT anticlines atmospheric boundary layer	Experiment  LDEF USE Long Duration Exposure Facility  LDR (telescope) USE Large Deployable Reflector  leaching
Laval number GS dimensionless numbers Laval number ratios Laval number Laves phases (added August 1998) GS solid phases	<ul> <li>SI (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)</li> <li>UF lamina plies</li> <li>RT anticlines atmospheric boundary layer barrier layers</li> </ul>	LDEF USE Long Duration Exposure Facility  LDR (telescope) USE Large Deployable Reflector  leaching RT autoclaving beneficiation
Laval number GS dimensionless numbers . Laval number ratios . Laval number  Laves phases (added August 1998) GS solid phases . Laves phases	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED.→CONSULT THE TERMS LISTED BELOW)  UF lamina plies  RT anticlines atmospheric boundary layer barrier layers boundary layers	Experiment  LDEF USE Long Duration Exposure Facility  LDR (telescope) USE Large Deployable Reflector  leaching RT autoclaving
Laval number GS dimensionless numbers . Laval number ratios . Laval number  Laves phases (added August 1998) GS solid phases . Laves phases RT alloys	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)     UF lamina plies     RT anticlines atmospheric boundary layer barrier layers boundary layers coatings	Experiment  LDEF USE Long Duration Exposure Facility  LDR (telescope) USE Large Deployable Reflector  leaching RT autoclaving beneficiation dissolving
Laval number  GS dimensionless numbers . Laval number ratios . Laval number  Laves phases (added August 1998) GS solid phases . Laves phases RT alloys crystal lattices	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)     UF lamina plies     RT anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers	LDEF USE Long Duration Exposure Facility  LDR (telescope) USE Large Deployable Reflector  leaching RT autoclaving beneficiation dissolving elution
Laval number GS dimensionless numbers . Laval number ratios . Laval number  Laves phases (added August 1998) GS solid phases . Laves phases RT alloys crystal lattices crystal structure	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)     UF lamina plies     RT anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers     Earth ionosphere	LDEF USE Long Duration Exposure Facility  LDR (telescope) USE Large Deployable Reflector  leaching RT autoclaving beneficiation dissolving elution extraction flushing
Laval number GS dimensionless numbers Laval number ratios Laval number  Laves phases (added August 1998) GS solid phases Laves phases RT alloys crystal lattices crystal structure cubic lattices	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  UF lamina plies  RT anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers  Earth ionosphere  Ekman layer flat layers  flat layers	LDEF USE Long Duration Exposure Facility  LDR (telescope) USE Large Deployable Reflector  leaching RT autoclaving beneficiation dissolving elution extraction
Laval number GS dimensionless numbers Laval number ratios Laval number  Laves phases (added August 1998) GS solid phases Laves phases RT alloys crystal lattices crystal structure cubic lattices interstitials	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)     UF lamina plies     RT anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers Earth ionosphere Ekman layer	Experiment  LDEF USE Long Duration Exposure Facility  LDR (telescope) USE Large Deployable Reflector  leaching RT autoclaving beneficiation dissolving elution extraction flushing hydrometallurgy
Laval number  GS dimensionless numbers . Laval number ratios . Laval number  Laves phases (added August 1998) GS solid phases . Laves phases RT alloys crystal lattices crystal structure cubic lattices interstitials microstructure	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  UF lamina plies  RT anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers Earth ionosphere Ekman layer flat layers folds (geology) formations	LDEF USE Long Duration Exposure Facility  LDR (telescope) USE Large Deployable Reflector  leaching RT autoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation permeability
Laval number  GS dimensionless numbers . Laval number ratios . Laval number  Laves phases (added August 1998) GS solid phases . Laves phases RT alloys crystal lattices crystal structure cubic lattices interstitials microstructure	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  UF lamina plies  RT anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers  Earth ionosphere  Ekman layer flat layers  folds (geology)	Experiment  LDEF USE Long Duration Exposure Facility  LDR (telescope) USE Large Deployable Reflector  leaching RT autoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation
Laval number  GS dimensionless numbers . Laval number ratios . Laval number  Laves phases (added August 1998) GS solid phases . Laves phases RT alloys crystal lattices crystal structure cubic lattices interstitials microstructure phase transformations  law SN (USE OF A MORE SPECIFIC TERM IS	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  UF lamina plies  RT anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers Earth ionosphere Ekman layer flat layers folds (geology) formations geosynclines intercalation	Experiment  LDEF USE Long Duration Exposure Facility  LDR (telescope) USE Large Deployable Reflector  leaching  RT autoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation permeability ∞ separation
Laval number GS dimensionless numbers Laval number ratios Laval number Laves phases (added August 1998) GS solid phases Laves phases RT alloys crystal lattices crystal structure cubic lattices interstitials microstructure phase transformations  august 1998)  BW SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  UF lamina plies  RT anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers  Earth ionosphere  Ekman layer flat layers folds (geology) formations geosynclines intercalation interlayers	Experiment  LDEF USE Long Duration Exposure Facility  LDR (telescope) USE Large Deployable Reflector  leaching RT autoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation permeability ∞ separation  lead (metal)
Laval number  GS dimensionless numbers . Laval number ratios . Laval number  Laves phases (added August 1998) GS solid phases . Laves phases RT alloys crystal lattices crystal structure cubic lattices interstitials microstructure phase transformations  ■ Iaw SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  UF lamina plies  RT 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	Experiment  LDEF USE Long Duration Exposure Facility  LDR (telescope) USE Large Deployable Reflector  leaching  RT autoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation permeability ∞ separation  lead (metal) GS chemical elements
Laval number  GS dimensionless numbers . Laval number ratios . Laval number  Laves phases (added August 1998) GS solid phases . Laves phases RT alloys crystal lattices crystal structure cubic lattices interstitials microstructure phase transformations  Iaw SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) RT claiming	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  UF lamina plies  RT 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	Experiment  LDEF USE Long Duration Exposure Facility  LDR (telescope) USE Large Deployable Reflector  leaching RT autoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation permeability  ∞ separation  lead (metal) GS chemical elements lead (metal)
Laval number  GS dimensionless numbers . Laval number ratios . Laval number  Laves phases (added August 1998) GS solid phases . Laves phases RT alloys crystal lattices crystal structure cubic lattices interstitials microstructure phase transformations  Iaw  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) RT claiming law (jurisprudence)	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  UF lamina plies RT 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)	Experiment  LDEF USE Long Duration Exposure Facility  LDR (telescope) USE Large Deployable Reflector  leaching  RT autoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation permeability ∞ separation  lead (metal) GS chemical elements . lead (metal) lead isotopes
Laval number  GS dimensionless numbers . Laval number ratios . Laval number  Laves phases (added August 1998) GS solid phases . Laves phases RT alloys crystal lattices crystal structure cubic lattices interstitials microstructure phase transformations  Iaw SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) RT claiming	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  UF lamina plies  RT 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	Experiment  LDEF USE Long Duration Exposure Facility  LDR (telescope) USE Large Deployable Reflector  leaching  RT autoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation permeability ∞ separation  lead (metal) GS chemical elements . lead (metal) lead isotopes metals
Laval number  GS dimensionless numbers . Laval number ratios . Laval number  Laves phases (added August 1998) GS solid phases . Laves phases RT alloys crystal lattices crystal structure cubic lattices interstitials microstructure phase transformations  Iaw SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) RT claiming law (jurisprudence) laws	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  UF lamina plies  RT 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	Experiment  LDEF USE Long Duration Exposure Facility  LDR (telescope) USE Large Deployable Reflector  leaching  RT autoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation permeability ∞ separation  lead (metal) GS chemical elements . lead (metal) lead isotopes metals . lead (metal) lead (metal)
Laval number  GS dimensionless numbers . Laval number ratios . Laval number  Laves phases (added August 1998) GS solid phases . Laves phases RT alloys crystal lattices crystal structure cubic lattices interstitials microstructure phase transformations  Iaw SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) RT claiming law (jurisprudence) laws	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  UF lamina plies  RT 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	Experiment  LDEF USE Long Duration Exposure Facility  LDR (telescope) USE Large Deployable Reflector  leaching  RT autoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation permeability ∞ separation  lead (metal) GS chemical elements . lead (metal) . lead isotopes metals . lead (metal) . lead isotopes
Laval number  GS dimensionless numbers . Laval number ratios . Laval number  Laves phases (added August 1998) GS solid phases . Laves phases RT alloys crystal lattices crystal structure cubic lattices interstitials microstructure phase transformations  Iaw  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) RT claiming law (jurisprudence) laws  law (jurisprudence) DEF A written rule or collection of rules for	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  UF lamina plies RT 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	Experiment  LDEF USE Long Duration Exposure Facility  LDR (telescope) USE Large Deployable Reflector  leaching  RT autoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation permeability ∞ separation  lead (metal) GS chemical elements . lead (metal) lead isotopes metals . lead (metal) lead (metal)
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Laval number  GS dimensionless numbers . Laval number ratios . Laval number  Laves phases (added August 1998) GS solid phases . Laves phases RT alloys crystal lattices crystal structure cubic lattices interstitials microstructure phase transformations  Iaw SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) RT claiming law (jurisprudence) laws  law (jurisprudence) DEF A written rule or collection of rules for action or conduct binding upon the population of a community. UF forensic sciences	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  UF lamina plies  RT 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 regions sedimentary rocks shear layers	Experiment  LDEF USE Long Duration Exposure Facility  LDR (telescope) USE Large Deployable Reflector  leaching  RT autoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation permeability  separation  lead (metal) GS chemical elements lead (metal) lead isotopes metals lead (metal) lead isotopes RT heavy metals  lead acetates GS acetates
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intellectual property

construction

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

plumbane UF

GS lead compounds

. lead acetates

. lead chlorides

. lead molybdates . lead oxides

. lead selenides

. lead sulfides

. lead tellurides

. lead titanates

. . lead zirconate titanates

. lead tungstates

RT ∞ chemical compounds

∞ Group 4A 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 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

. 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 DEF 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)

	avan identification	00			annondada.
	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
			curve fitting		gait
leakage	•		Gauss-Markov theorem		tibia
RT	brush seals		mean square values		
	cavities		• methodology	legal lia	bility
	cracks		optimization	ĞS	law (jurisprudence)
	defects		parameter identification	0.0	. public law
					liabilities
00	escape		quality control		
	fluid flow		regression analysis	DT	legal liability
	intrusion		simultaneous equations	RT	air law
	labyrinth seals				contracts
	loss of coolant	leather			insurance (contracts)
	losses	RT	clothing		intellectual property
	permeability		collagens		international law
	pinholes		shoes		judgments
	porosity		skin (anatomy)		losses
~	reduction		, ,,,		penalties
	seepage	leaves			prohibition
	wastes	RT	brown wave effect		F
	Wasies		canopies (vegetation)	Legendi	re code
Lear jet	aircraft			USE	computer programming
	aircraft		deciduous trees	COL	neutron scattering
GS	commercial aircraft		defoliation		near on scattering
	Lear jet aircraft		defoliation	I acond	re functions
	jet aircraft		foliage		
	. Lear jet aircraft		green wave effect	UF	Legendre polynomials
RT ∝	o aircraft		herbicides		Legendre transformation
			leaf area index	GS	analysis (mathematics)
learning			plant physiology		. complex variables
GS	learning		plants (botany)		Legendre functions
	. astronaut training		plante (betany)		functions (mathematics)
	. conditioning (learning)	Lebano	n		Legendre functions
	habituation (learning)	GS	nations	RT	orthogonal functions
		GS			spherical harmonics
	. maze learning	БТ	Lebanon		Spriencai narmonies
	transfer of training	RT	Asia	Lagandi	re polynomials
RT	achievement				• •
	aptitude		ue theorem	USE	Legendre functions
	behavior	GS	analysis (mathematics)	Lamand	e transfermation
	child device		. real variables		e transformation
	deconditioning		measure and integration	USE	Legendre functions
	education		Lebesgue theorem	1	
	educational resources		theorems	legibilit	
	educational television		. Lebesgue theorem	RT	character recognition
	habits	RT	set theory		contrast
		111	Set theory		perception
	instructors	lectures			printing
	knowledge				reading
	memory	UF	speeches		resolution
	motivation	RT	education		symbols
	reinforcement (psychology)		public speaking		visibility
	responses		speech		vision
			verbal communication		VISIOII
	retention (psychology)				
	retention (psychology) students			logumin	acue plente
	students	LED (di			ous plants
	students teaching machines	<i>LED (di</i> USE	odes)		farm crops
	students teaching machines textbooks				farm crops . leguminous plants
	students teaching machines textbooks training analysis	USÈ	odes)		farm crops . leguminous plants soybeans
	students teaching machines textbooks training analysis training evaluation	USÈ <b>Leda</b>	odes) light emitting diodes		farm crops . leguminous plants
	students teaching machines textbooks training analysis	USÈ <b>Leda</b> (adda	odes) light emitting diodes ed January 1996)		farm crops . leguminous plants soybeans
	students teaching machines textbooks training analysis training evaluation universities	USÈ  Leda (adde	odes) light emitting diodes ed January 1996) A natural satellite of Jupiter orbiting at		farm crops . leguminous plants soybeans plants (botany)
	students teaching machines textbooks training analysis training evaluation universities g curves	USÈ  Leda (adde DEF a mean	odes) light emitting diodes  ed January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers.		farm crops . leguminous plants soybeans plants (botany) . leguminous plants
RT	students teaching machines textbooks training analysis training evaluation universities g curves asymptotic methods	USÈ  Leda (adde	oldes) light emitting diodes  ed January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies	GS	farm crops . leguminous plants soybeans plants (botany) . leguminous plants soybeans agriculture
RT	students teaching machines textbooks training analysis training evaluation universities g curves	USÈ  Leda (adde DEF a mean	oldes) light emitting diodes  ed January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies . natural satellites	GS	farm crops . leguminous plants . soybeans plants (botany) . leguminous plants . soybeans agriculture botany
RT	students teaching machines textbooks training analysis training evaluation universities g curves asymptotic methods	USÈ  Leda (adde DEF a mean	ed January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies . natural satellites Jupiter satellites	GS RT	farm crops . leguminous plants soybeans plants (botany) . leguminous plants soybeans agriculture botany Earth resources
RT °	students teaching machines textbooks training analysis training evaluation universities g curves asymptotic methods	USÈ  Leda (adde DEF a mean	oldes) light emitting diodes  ed January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies . natural satellites	GS RT	farm crops . leguminous plants soybeans plants (botany) . leguminous plants soybeans agriculture botany Earth resources food
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RT on the second	students teaching machines textbooks training analysis training evaluation universities g curves asymptotic methods curves machines machine learning	USÉ  Leda (addd DEF a mean GS	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 RT	farm crops . leguminous plants soybeans plants (botany) . leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules
RT « learning USE	students teaching machines textbooks training analysis training evaluation universities g curves asymptotic methods curves machines machine learning g theory	USÉ  Leda (addd DEF a mean GS	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 RT	farm crops . leguminous plants . soybeans plants (botany) . leguminous plants . soybeans agriculture botany Earth resources food hay nitrogenation
RT « learning USE	students teaching machines textbooks training analysis training evaluation universities  g curves asymptotic methods curves machines machine learning g theory child device	USÉ  Leda (addd DEF a mean GS	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 RT ∝	farm crops . leguminous plants soybeans plants (botany) . leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables
RT « learning USE	students teaching machines textbooks training analysis training evaluation universities  g curves asymptotic methods curves  machines machine learning g theory child device education	USÉ  Leda (addd DEF a mean GS	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)	GS RT ∝ <b>Leidenf</b>	farm crops . leguminous plants soybeans plants (botany) . leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables rost phenomenon
RT « learning USE learning	students teaching machines textbooks training analysis training evaluation universities  g curves asymptotic methods curves machines machines machine learning g theory child device education problem solving	USÉ  Leda (addd DEF a mean GS	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 RT ∝	farm crops . leguminous plants soybeans plants (botany) . leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables  rost phenomenon phase transformations
RT « learning USE learning	students teaching machines textbooks training analysis training evaluation universities  g curves asymptotic methods curves  machines machine learning g theory child device education	USÉ  Leda (addd DEF a mean GS  RT  ledges RT	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 RT ∝ <b>Leidenf</b>	farm crops . leguminous plants soybeans plants (botany) . leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables rost phenomenon
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learning USE learning RT	students teaching machines textbooks training analysis training evaluation universities  g curves asymptotic methods curves  machines machine learning g theory child device education problem solving theories	USE  Leda (addd DEF a mean GS  RT  ledges RT	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 down-	GS RT ∝ <b>Leidenf</b>	farm crops . leguminous plants soybeans plants (botany) . leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables  rost phenomenon phase transformations . vaporizing
learning USE learning RT  « leasing DEF	students teaching machines textbooks training analysis training evaluation universities  g curves asymptotic methods curves machines machine learning g theory child device education problem solving theories  Contracting for the use and posses-	Leda (addd DEF a mean GS  RT ledges RT	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.	GS RT ∝ <b>Leidenf</b>	farm crops . leguminous plants soybeans plants (botany) . leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables  rost phenomenon phase transformations . vaporizing boiling nucleate boiling
learning USE learning RT   learning RT   learning	students teaching machines textbooks training analysis training evaluation universities  g curves asymptotic methods curves machines machine learning g theory child device education problem solving theories  Contracting for the use and posses- and, buildings, etc., for a specified time	USE  Leda (addd DEF a mean GS  RT  ledges RT	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	GS RT ∝ <b>Leidenf</b>	farm crops . leguminous plants soybeans plants (botany) . leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables  rost phenomenon phase transformations . vaporizing boiling nucleate boiling Leidenfrost phenomenon
learning USE learning RT	students teaching machines textbooks training analysis training evaluation universities g curves asymptotic methods curves machines machine learning g theory child device education problem solving theories  Contracting for the use and posses- and, buildings, etc., for a specified time d payments.	Leda (addd DEF a mean GS  RT ledges RT	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.	GS RT « Leidenf GS	farm crops . leguminous plants soybeans plants (botany) . leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables  rost phenomenon phase transformations . vaporizing boiling nucleate boiling Leidenfrost phenomenon film boiling
learning USE learning RT	students teaching machines textbooks training analysis training evaluation universities  g curves asymptotic methods curves machines machine learning g theory child device education problem solving theories  Contracting for the use and posses- and, buildings, etc., for a specified time	Leda (addd DEF a mean GS  RT ledges RT	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	GS RT « Leidenf GS	farm crops . leguminous plants soybeans plants (botany) . leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables  rost phenomenon phase transformations . vaporizing boiling nucleate boiling Leidenfrost phenomenon
learning USE learning RT	students teaching machines textbooks training analysis training evaluation universities g curves asymptotic methods curves machines machine learning g theory child device education problem solving theories  Contracting for the use and posses- and, buildings, etc., for a specified time d payments.	Leda (addd DEF a mean GS  RT ledges RT	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	GS RT  Leidenf GS  RT	farm crops . leguminous plants soybeans plants (botany) . leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables rost phenomenon phase transformations . vaporizing boiling nucleate boiling heat transfer
learning USE learning RT	students teaching machines teatbooks training analysis training evaluation universities  g curves asymptotic methods curves  machines machines machine learning g theory child device education problem solving theories  Contracting for the use and posses- and, buildings, etc., for a specified time d payments. procurement	Leda (addd DEF a mean GS  RT ledges RT	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	GS RT Leidenf GS RT LEM (lu	farm crops . leguminous plants . soybeans plants (botany) . leguminous plants . soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables  rost phenomenon phase transformations . vaporizing . boiling nucleate boiling Leidenfrost phenomenon film boiling heat transfer nar module)
learning USE learning RT  leasing DEF sion of I and fixe GS	students teaching machines textbooks training analysis training evaluation universities  g curves asymptotic methods curves machines machines machine learning g 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	Leda (addd DEF a mean GS  RT ledges RT	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	GS RT Leidenf GS RT LEM (lu	farm crops . leguminous plants soybeans plants (botany) . leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables rost phenomenon phase transformations . vaporizing boiling nucleate boiling heat transfer
learning USE learning RT  leasing DEF sion of I and fixe GS	students teaching machines textbooks training analysis training evaluation universities  g curves asymptotic methods curves  machines machine learning g 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	USE  Leda (addd DEF a mean GS  RT  ledges RT  lee wav DEF stream RT	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	GS RT  Leidenf GS  RT  LEM (lu USE	farm crops . leguminous plants soybeans plants (botany) . leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables  rost phenomenon phase transformations . vaporizing boiling Leidenfrost phenomenon film boiling heat transfer  nar module  Lunar Module
learning USE learning RT  leasing DEF sion of I and fixe GS	students teaching machines textbooks training analysis training evaluation universities  g curves asymptotic methods curves machines machine learning g 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	USE  Leda (addd DEF a mean GS  RT  ledges RT  lee wav DEF stream RT	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 lemmas	farm crops . leguminous plants soybeans plants (botany) . leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables  rost phenomenon phase transformations . vaporizing boiling nucleate boiling Leidenfrost phenomenon film boiling heat transfer mar module) Lunar Module
learning USE learning RT  leasing DEF sion of I and fixe GS	students teaching machines teatbooks training analysis training evaluation universities  g curves asymptotic methods curves machines machine learning g 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	USE  Leda (addd DEF a mean GS  RT  ledges RT  lee wav DEF stream RT	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) anatomy	GS RT  Leidenf GS  RT  LEM (lu USE	farm crops . leguminous plants soybeans plants (botany) . leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables  rost phenomenon phase transformations . vaporizing boiling Leidenfrost phenomenon film boiling heat transfer  nar module  Lunar Module
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learning USE learning RT  leasing DEF sion of I and fixe GS RT	students teaching machines textbooks training analysis training evaluation universities  g curves asymptotic methods curves machines machine learning g 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 site selection	USE  Leda (addd DEF a mean GS  RT  ledges RT  lee wav DEF stream RT	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	farm crops . leguminous plants soybeans plants (botany) . leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables  rost phenomenon phase transformations . vaporizing boiling Leidenfrost phenomenon film boiling heat transfer  nar module  Lunar Module
learning USE learning RT  leasing DEF sion of I and fixe GS RT	students teaching machines textbooks training analysis training evaluation universities  g curves asymptotic methods curves machines machine learning g 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 site selection quares method	USE  Leda (addd DEF a mean GS  RT  ledges RT  lee wav DEF stream RT	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) . leg (anatomy) feet (anatomy)	RT  Leidenf GS  RT  LEM (lu USE lemmas USE length DEF	farm crops . leguminous plants soybeans plants (botany) . leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables  rost phenomenon phase transformations . vaporizing boiling nucleate boiling Leidenfrost phenomenon film boiling heat transfer mar module) Lunar Module  The larger of the two dimensions of the
learning USE learning DEF sion of I and fixe GS RT	students teaching machines textbooks training analysis training evaluation universities  g curves asymptotic methods curves machines machine learning g 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 site selection	USE  Leda (addd DEF a mean GS  RT  ledges RT  lee wav DEF stream RT	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	farm crops . leguminous plants soybeans plants (botany) . leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables  rost phenomenon phase transformations . vaporizing boiling nucleate boiling Leidenfrost phenomenon film boiling heat transfer mar module) Lunar Module  The larger of the two dimensions of the

	. length		streak cameras		. islands
	diffusion length		telescopes		West Indies
RT	distance		vignetting		Lesser Antilles
	thickness	la saki a sal	an bandina	RT	Atlantic Ocean
1	d lames was		ar bodies		Januard
	d-Jones gas	GS	symmetrical bodies		s learned
RT		ОТ	. lenticular bodies		ed March 2008)
	gas viscosity	RT	axisymmetric bodies		Knowledge or understanding gained
	Lennard-Jones potential	0	o bodies		rience. The lesson must be significant in
Lonnor	d Janes natantial		convexity		is real or assumed impact on operations;
RT	d-Jones potential	LEO			that it is factually and technically correct;
ΠI	computerized simulation intermolecular forces	USE	low Earth orbits		olicable in that it identifies a specific
	Lennard-Jones gas	USL	low Lattii orbits		process, or decision that reduces or
	•	I FO en	vironments		es the potential for failures and mishaps,
	molecular interactions potential theory		Earth orbital environments		orces a positive result.
	potential trieory	002		do	knowledge
lens an	tennas	Leonard	do Logistics Module (ISS)	RT	. lessons learned
GS	antennas		ed April 2005)	n i	accident investigation accident prevention
ao	. directional antennas	USE	Multi-Purpose Logistics Modules		accidents
	lens antennas		. •		documentation
	. radio antennas	Leonid	meteoroids		experience
	microwave antennas	GS	celestial bodies		failure analysis
	lens antennas		. meteoroid showers		mission planning
	microwave equipment		Leonid meteoroids		quality control
	. microwave antennas		. meteoroids		reliability engineering
	lens antennas		Leonid meteoroids		reliability engineering
	radio equipment			lethality	1
	. radio antennas	leptons		RT	carbon monoxide poisoning
	. microwave antennas	DEF		• • • • • • • • • • • • • • • • • • • •	damage
	lens antennas		ccording to mass, the lightest of all		destruction
RT	antenna design		s; examples of leptons are the electron		doctidotion
	dipole antennas	and pos		lethargy	ı
	horn antennas	GS	particles		boredom
	lenses		. elementary particles	~	depression
	multibeam antennas		fermions		detachment
	radar antennas		leptons		frustration
	waveguide antennas		antineutrinos		human behavior
	wire grid lenses		electrons	~	inhibition
	and give terrete		conduction electrons		monotony
lens de	sian		free electrons		•
RT	antireflection coatings		high energy electrons	letters (	symbols)
	aspheric optics		relativistic electron beams	USE	symbols
	computer aided design		hot electrons		
٥	∘ design		N electrons	leucine	
	gradient index optics		negatrons	GS	acids
	lenses		photoelectrons		. amino acids
	optical correction procedure		pi-electrons		leucine
۰	optics		polarons		norleucine
	product development		solar electrons		organic compounds
	stigmatism		muons		. amino acids
	zoom lenses		neutrinos		leucine
			solar neutrinos		norleucine
lenses		ОТ	positrons		
DEF	Transparent optical elements, so con-	RT	charged particles	leukem	
	that they serve to change the degree of		charm (particle physics)	GS	diseases
	ence of the transmitted rays.		gluons		. tumors
GS	lenses		mesons		neoplasms
	. aspheric optics		partons		cancer
	. contact lenses		quantum chromodynamics quark parton model	DT	leukemias
	. Fresnel lenses		quark parton model	RT	bone marrow
	. gravitational lenses	LES (es	scape systems)		occupational diseases
	. magnetic lenses	•	launch escape systems	laukaa	ata a
	. wide angle lenses	002	aumon cocupo cyclomo	leukocy UF	white blood cells
	. wire grid lenses	LES (m.	athematics)	GS	cells (biology)
	. zoom lenses	(add	ed October 1997)	ao	. blood cells
RT	astigmatism	USE	large eddy simulation		leukocytes
	cameras				eosinophils
	cataracts	LES (sa			lymphocytes
	circumsolar telescopes	USE	Lincoln Experimental Satellites		monocytes
	eye (anatomy)				neutrophils
	eyepieces		unar exploration system)	RT	biocompatibility
	focusing	USE	Lunar Exploration System for		blood cell count
	gradient index optics		Apollo		bone marrow
	integrated optics				erythrocytes
	lens antennas	lesions			immune systems
	lens design	GS	injuries		interleukins
	magnification		. lesions		
	numerical aperture	57	pulmonary lesions	leukope	enia
	optical coatings	RT	abrasion	GS	signs and symptoms
	optical equipment		burns (injuries)		. leukopenia
	optical filters	1	_	RT	infectious diseases
	optical materials	Lesothe GS	nations		
٥	∘ optics panoramic cameras	GS	nations . <b>Lesotho</b>	∞ level	
	photographic equipment	ОТ		SN	(USE OF A MORE SPECIFIC TERM IS
	refracting telescopes	н	Africa		RECOMMENDEDCONSULT THE TERMS
	refracting telescopes		Republic of South Africa	RT	LISTED BELOW) chemical energy
	reticles	Leccr	Antilles	ΠI	free energy
	stigmatism	GS	landforms		height
	ouginuuoiii	as	IGH IGHOTHIO		noign

	internal energy		space processing	periods	of rotation and revolution are the same.
	level (horizontal)			Other n	notions regarded as librations are long
	level (quantity)	Lewis I	pase	period o	orbital motions and periodic perturbations
		RT	amines	in orbita	al elements.
level (he	orizontal)		electrons	RT	Earth limb
GS <sup>`</sup>	level (horizontal)				Lissajous figures
	. liquid levels		numbers		lunar far side
RT ∝	grade	GS	dimensionless numbers		lunar limb
	gradients		. Lewis numbers	0	∞ motion
000	level		ratios		nutation
	slopes		. Lewis numbers		orbital resonances (celestial
	P	RT	density (mass/volume)		mechanics)
level (qu	uantity)		diffusion coefficient		precession
	level (quantity)		fluid flow		rotation
0.0	. effective perceived noise levels		heat transfer		
	. energy levels		mass flow	libratio	nal motion
	atomic energy levels		mass transfer	RT	
	electron states		specific heat		∞ motion
	ground state		thermal conductivity	· ·	nutation
	molecular energy levels				orbital resonances (celestial
	intermolecular forces	Lexan	(trademark)		mechanics)
	rotational states	GS	carbon compounds		mechanics)
	vibrational states		. carbonates		
	yrast state		polycarbonates	LIBS (s	pectroscopy)
RT	amplitudes		Lexan (trademark)		ed June 2001)
111	displacement		esters	USE	laser-induced breakdown
~	flux		. polycarbonates		spectroscopy
			. Lexan (trademark)		
	flux (rate)	RT «	polymers	Libya	
	flux density		resins	UF	Lybia
	intensity			GS	
000	level	LFA thr	usters	do	nations
	loudness	(add	ed April 2001)	DT	. <b>Libya</b> Africa
	magnitude		magnetoplasmadynamic thrusters	RT	AIIICa
	value		3,		
		LFO		Libyan	desert
leveling		USE	Landsat follow-on missions	ĞS	land
SN	(EXCLUDES METAL WORKING)				. deserts
RT	adjusting	liabilitie	es		Libyan desert
	consistency	GS	law (jurisprudence)	RT	Africa
	datum (elevation)		. public law		
	flattening		. liabilities	licensin	
	metal working		legal liability	licensir	-
000	rolling	RT	air law	GS	licensing
	smoothing	• • • •	commerce	БТ	. open source licensing (computers)
	winding		disciplining	RT	copyrights
			losses		intellectual property
levers					patent applications
RT	cantilever members		penalties		policies
	handles		regulations		regulations
	knobs				
~	machinery		ov functions	lichens	
	manual control	UF	Lyapunov functions	GS	
	mechanical devices	GS	analysis (mathematics)	do	plants (botany)
	pedals		. real variables	DT	. lichens
	pedais		Liapunov functions	RT	algae
			functions (mathematics)		fungi
levitatio			. Liapunov functions		lacunas
GS	levitation	RT	differential equations		symbiosis
	. acoustic levitation				
RT	buoyancy	Liberia		lidar	
	electrostatic gyroscopes	GS	nations	USE	optical radar
	flotation		. Liberia		•
	frictionless environments	RT	Africa		
	levitation melting			lie grou	
	magnetic bearings	librarie	s	GS	algebra
	magnetic levitation vehicles	RT	bibliographies		lie groups
	suspension systems (vehicles)		catalogs (publications)		spinor groups
	vacuum melting		data retrieval		geometry
			documentation		. differential geometry
levitatio	n melting		documents		lie groups
DEF	A metallurgical process in which a		information dissemination		spinor groups
piece of	metal placed above a coil carrying a		information resources management	RT	group theory
	juency current can be supported against		information retrieval		supergravity
gravity	by the Lorentz force caused by the		information systems		supersymmetry
induced	surface currents in the metal. At the		integrated library systems		
	ne, the heat produced by Joule dissipa-		interservice data exchange program	Liechte	enstein
	ts the metal.		literature		nations
GS	phase transformations		museums		. Liechtenstein
	. melting	c	∘ reference systems	RT	Europe
	levitation melting		selective dissemination of information		
RT	electric current		textbooks		
	external surface currents		world data centers		l potential
	levitation			GS	potential energy
	liquid metals	libratio	n		. electric potential
	low gravity manufacturing		A real or apparent oscillatory motion,		Lienard potential
	magnetic suspension		arly the apparent oscillation of the moon.	RT	electric current
	metallurgy		e of libration more than half of the		electric fields
~	ohmic dissipation		surface is revealed to an observer on the		
	resistance heating			lies	
	•		ven though the same side of the moon is		galvania skin rospense
	space manufacturing	aiways	toward the Earth, because the moon's	RT	galvanic skin response

	mental performance	∞	span		interference lift
LIF (fluo	rescence)	life supr	ort systems		jet lift rotor lift
	laser induced fluorescence		support systems		zero lift
			. life support systems		dynamic characteristics
life (biole	ogy)		biopaks		. lift
USE	life sciences		closed ecological systems		interference lift
life (d	a bilitar)		emergency life sustaining systems		jet lift
life (dur UF	lifetime (durability)		AEPS portable life support systems		rotor lift
	life (durability)		AEPS	RT	zero lift aerodynamic coefficients
	. carrier lifetime		IMLSS	П	aerodynamic coefficients aerodynamic configurations
	. fatigue life		aerospace environments		aerodynamic drag
	. half life		air conditioning		aerodynamics
	. plasma lifetime		artificial gravity		airfoils
	. satellite lifetime . service life		astronaut locomotion atmospheres		angle of attack
	. storage stability		biosatellites		aspect ratio camber
RT	accelerated life tests		breathing apparatus		distribution (property)
	aircraft survivability		Chlorella		drag
	depletion		environmental engineering		externally blown flaps
	depreciation		environments		gliding
	durability failure analysis		exobiology extravehicular mobility units		ground effect (aerodynamics)
	long term effects		human factors engineering		hypersonic forces leading edge thrust
000	longevity		long term effects		pressure distribution
	Mills ratio		lunar environment		sweep effect
	MTBF		lunar logistics		under surface blowing
000	resistance retirement for cause		lunar shelters		upper surface blowing
	systems health monitoring		manned maneuvering units nutrients		
	vulnerability		onboard equipment		mentation
	•		oxygen masks	RT	boundary layer control circulation control airfoils
life cycl			oxygen supply equipment		downwash
DEF	The sum of the acquisition costs and ance costs for the life of a system.		planetary environments		peripheral jet flow
GS	costs		pressure suits pressurized cabins		spanwise blowing
0.0	. life cycle costs		provisioning		STOVL aircraft
RT	concurrent engineering		rebreathing		tangential blowing
	cost analysis		Service Module (ISS)		upper surface blown flaps vortex flaps
	cost effectiveness design to cost		space flight feeding		vortex haps
	financial management		space habitats spacecraft environments	lift coeffi	iciente
	management planning		survival	USE	aerodynamic coefficients
	production costs		sustaining		lift
	systems engineering		systems		
	value engineering		thermal environments	lift devi	ces
life dete	ectors		underwater breathing apparatus vapor barrier clothing	UF	lifting surfaces
RT	biomarkers		vapor barrier clothing	RT	boundary layer control
	biosatellites		waste management	~	devices
~	detectors		water		direct lift controls drag devices
	extraterrestrial life		weightlessness		externally blown flaps
life rafts		lifeboats			flaps (control surfaces)
GS	rafts		surface vehicles		magnetic levitation vehicles
	. life rafts		. boats		slots
RT	floats		lifeboats		upper surface blown flaps
	inflatable structures		water vehicles		
	lifeboats		. boats <b>lifeboats</b>	lift distrii	bution force distribution
life scie	nces		Assured Crew Return Vehicle	USE	lift
DEF	A collective discipline encompassing		life rafts		
biology,	physiology, psychology, medicine, and		rafts	lift drag	ratio
	es sociology and other related areas.		survival equipment		The ratio of lift to drag obtained by
UF	r life (biology). life (biology)		X-38 crew return vehicle		the lift by the drag or the lift coefficient
GS	life sciences	lifetime (	durability)		rag coefficient. Used for drag balance.
	. extraterrestrial life		life (durability)	UF GS	drag balance ratios
	. molecular biology			do	. lift drag ratio
RT	abiogenesis	lift DEF	That component of the total aerody-	RT	aerodynamic balance
	aging (biology) biological evolution		rce acting on a body perpendicular to		aerodynamic coefficients
~	biology		sturbed airflow relative to the body. To		aerodynamic drag
	chemical evolution	,	ake off in vertical ascent. Said of rocket		aerodynamic stalling boundary layer separation
	environmental engineering		Used for aerodynamic lift, lift coeffi-		drag reduction
	neurology		distribution, lift forces, and variable lift.  aerodynamic lift		force distribution
000	physical sciences psychopharmacology		lift coefficients		pressure ratio
∞	science		lift distribution		
	-		lift forces	lift fans	
life spar			variable lift	UF	fanlift devices
SN RT	(LIMITED TO THE LIFE SCIENCES)		aerodynamic characteristics . <b>lift</b>	RT	ducted fans
ΠI	age factor aging (biology)		. ιπτ interference lift		fan in wing aircraft lifting rotors
	death		jet lift		propeller fans
	existence		rotor lift		rotary wings
	gerontology		zero lift		short takeoff aircraft
000	longevity mortality		aerodynamic forces . <b>lift</b>		turbofans vertical takeoff aircraft
	mortanty				יסונוסטו ומונסטון מווטומונ

XV-11A aircraft . rocket launching optical measurement . liftoff (launching) optical properties lift forces spacecraft launching optics USE lift . liftoff (launching) photics booster rocket engines photometry lifting bodies countdown photons UF lifting surfaces launching pads photonuclear reactions GS lifting bodies rocket firing . photoperiod . lifting reentry vehicles rocket thrust photophilic plants . . FDL-5 reentry vehicle photophoresis .. HL-10 reentry vehicle photosensitivity ∞ lifts (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) planetary radiation polarized electromagnetic radiation . . HLD-35 reentry vehicle SN Janus spacecraft M-2 lifting body polarizers RT conveyors . M-2F2 lifting body radiation cranes . . X-20 aircraft Raman spectra elevators (lifts) . . X-24 aircraft reflection escalators . M-2F3 lifting body refraction jacks (lifts) aerodynamic configurations refractivity winches airfoils shadows bluff bodies sky brightness ligaments ∞ bodies solar radiation connective tissue thermal radiation ∞ devices joints (anatomy) lunar flying vehicles transmittance reentry vehicles ultraviolet spectra ligands towed bodies visibility chemical bonds waveriders visible spectrum chemical composition coordination number lifting reentry vehicles light absorption reentry gliders USE electromagnetic absorption light (visible radiation) space gliders Visible radiation (about 0. 4 to 0. 7 light adaptation lifting bodies microns in wavelength) considered in terms of . lifting reentry vehicles GS adaptation .. FDL-5 reentry vehicle .. HL-10 reentry vehicle its luminous efficiency, i.e., evaluated in propor-. retinal adaptation tion to its ability to stimulate the sense of sight. .. light adaptation . . HLD-35 reentry vehicle Used for optical spectrum and visible radiation. sensitivity . . Janus spacecraft . . M-2 lifting body . . . M-2F2 lifting body optical spectrum . photosensitivity visible radiation . light adaptation GS electromagnetic radiation flash blindness . light (visible radiation) night vision X-20 aircraft pupillometry . . coherent light . . X-24 aircraft . . gegenschein thresholds (perception) reentry vehicles . . polarized light . maneuverable reentry bodies vision . . sky radiation . . lifting reentry vehicles . . . FDL-5 reentry vehicle . . . airglow Light Airborne Multipurpose System LAMPS program . geocoronal emissions . HL-10 reentry vehicle . . . . nightglow navigation aids . HLD-35 reentry vehicle . Light Airborne Multipurpose . twilight glow . . . Janus spacecraft System . . . dayglow . . . M-2 lifting body . . . elves onboard equipment . . . . M-2F2 lifting body . . . sprites (atmospheric physics) . airborne equipment . . Light Airborne Multipurpose System ... X-20 aircraft . . sunlight . . X-24 aircraft . . zodiacal light RT aerospace planes aircraft equipment flight instruments navigation instruments atmospheric radiation ∞ aircraft attenuation ASSET gliders beams (radiation) Astro vehicle black body radiation boostglide vehicles ∞ systems brightness HOPE aerospace plane Cerenkov radiation light aircraft coherent electromagnetic radiation GS light aircraft . Beech 99 aircraft hypersonic gliders coherent radiation manned reentry . . Beechcraft 18 aircraft manned spacecraft color critical frequencies C-33 aircraft recoverable spacecraft C-35 aircraft darkness reentry dichroism Cessna 172 aircraft spacecraft reentry electromagnetic spectra Cessna 205 aircraft lifting rotors energy absorption Cessna 210 aircraft excitons Cessna 402B aircraft airfoils extraterrestrial radiation Cessna L-19 aircraft . wings ∞ flash DH 125 aircraft . . rotary wings ... lifting rotors geometrical optics DO-27 aircraft DO-28 aircraft . bearingless rotors rotating bodies illuminance F-28 helicopter incandescence Firebee 2 target drone aircraft . rotors infrared radiation G-1 aircraft . . rotary wings ... lifting rotors light curve light helicopters . OH-4 helicopter . . . bearingless rotors lighting equipment line spectra ground effect machines lumens OH-6 helicopter lift fans OH-58 helicopter rotary wing aircraft luminaires short takeoff aircraft vertical takeoff aircraft light intratheater transport **luminance** MH-262 aircraft luminescence Mystere 20 aircraft luminosity OH-13 helicopter lifting surfaces luminous intensity lift devices lifting bodies monochromatic radiation OH-23 helicopter USE near infrared radiation PD-808 aircraft near ultraviolet radiation . Piper aircraft surfaces . PA-34 Seneca aircraft opacity liftoff (launching) optical depolarization Saab 105 aircraft

optical emission spectroscopy

. SC-7 aircraft

GS launching

. U-10 aircraft	low density materials	observation aircraft
. VZ-8 aircraft	Patricial and a second	
RT agricultural aircraft	light emission UF optical emission	light intensity USE luminous intensity
∞ aircraft biplanes	GS emission	USE luminous intensity
drone aircraft	. light emission	light intratheater transport
general aviation aircraft	incandescence	GS light aircraft
∞ low wing aircraft	luminescence	light intratheater transport
∞ military aircraft	bioluminescence	transport aircraft
observation aircraft passenger aircraft	cathode glow cathodoluminescence	. <b>light intratheater transport</b> RT ∞ aircraft
pilotless aircraft	chemiluminescence	COIN aircraft
reconnaissance aircraft	electroluminescence	
submersible aircraft	fluorescence	light ions
∞ subsonic aircraft	laser induced fluorescence	DEF lons of helium, boron, and other ele
training aircraft	phosphorescence resonance fluorescence	ments used in implantation experiments.  GS ions
transport aircraft ultralight aircraft	x ray fluorescence	. light ions
utility aircraft	lunar luminescence	RT chemical elements
water takeoff and landing aircraft	optical resonance	heavy ions
	photoluminescence	plasmas (physics)
light alloys	triboluminescence x ray fluorescence	light modulation
GS alloys	shock wave luminescence	UF optical maser modulation
. <b>light alloys</b> aluminum alloys	sonoluminescence	optical modulation
aluminum-lithium alloys	spacecraft glow	GS modulation
beryllium alloys	thermoluminescence	. light modulation
magnesium alloys	RT airglow	Miros system ultrasonic light modulation
RT ∞ metallurgy	auroral absorption auroral ionization	RT amplitude modulation
metals	auroral spectroscopy	Bragg cells
light amplifiers	auroras	deformable mirrors
UF optical amplifiers	diffraction radiation	electro-optical effect
GS amplifiers	dimming	frequency modulation
. light amplifiers	electromagnetic radiation linear polarization	Kerr electrooptical effect lasers
RT fiber lasers	∞ optics	light modulators
four-wave mixing	self sustained emission	light valves
HCN lasers image converters	sky brightness	modulators
image enhancement	spectral emission	optical heterodyning
image intensifiers	stimulated emission	optical resonators optical switching
Lallemand cameras	white holes (astronomy)	∞ optics
laser cavities	light emitting diodes	polarization modulation
laser microscopy lasers	DEF Pn junction semiconductor devices	pulse modulation
microchannels	that emit incoherent optical radiation when bi-	traveling wave modulation
∞ optics	ased in the forward direction. Used for LED	tunable lasers
photocathodes	(diodes). UF <i>LED (diodes)</i>	light modulators
quantum amplifiers	GS electronic equipment	(added September 1995)
ultrashort pulsed lasers	. diodes	GS modulators
ultraviolet lasers	semiconductor diodes	. light modulators
light armed reconnaissance aircraft	light emitting diodes	RT acousto-optics
USE COIN aircraft	. solid state devices semiconductor devices	electro-optics light modulation
	light emitting diodes	magneto-optics
light beams	optoelectronic devices	optical data processing
UF light probes	light emitting diodes	
GS beams (radiation)	RT aircraft instruments	light pressure
. <b>light beams</b> laser beams	alphanumeric characters	USE illuminance
electromagnetic radiation	display devices electroluminescence	light probes
. light beams	fiber optics	USE light beams
laser beams	luminescence	
RT Bragg cells	photonics	light scattering
four-wave mixing optical wavequides	surface emitting lasers	GS scattering . wave scattering
photon beams	light gas guns	electromagnetic scattering
rare gas-halide lasers	GS gas guns	light scattering
	. light gas guns	halos
light bulbs	RT hypervelocity projectiles	transmission
USE luminaires	light helicopters	. electromagnetic wave transmission light transmission
	(added June 1989)	light scattering
light communication	GS light aircraft	halos
USE optical communication	. light helicopters	. wave propagation
light curve	OH-4 helicopter	light scattering
RT ∞ curves	OH-5 helicopter	halos
light (visible radiation)	OH-6 helicopter OH-58 helicopter	RT afterglows atmospheric scattering
stellar radiation	V/STOL aircraft	bidirectional reflectance
	. rotary wing aircraft	Brillouin effect
light duration	helicopters	circumsolar radiation
USE flash	light helicopters	diffuse radiation
pulse duration	OH-4 helicopter	electromagnetic absorption
light elements	OH-5 helicopter OH-6 helicopter	forward scattering gravitational lenses
GS chemical elements	OH-58 helicopter	infrared absorption
. light elements	RT ∞ aircraft	optical coatings
RT ∞ elements	military helicopters	Rayleigh scattering

#### light scattering meters

reflection nebulae wave dispersion . . xenon lamps scatter plates (optics) RT ∞ electric equipment wave propagation speckle patterns ∞ equipment transmissivity light transport aircraft ∞ flares A classification of multiengine airtropospheric scattering illuminating Umkehr effect planes having a maximum passenger capacity light (visible radiation) of 30 seats and a gross weight of about 35,000 light sources light scattering meters onboard equipment measuring instruments commercial aircraft waste energy utilization . optical measuring instruments light transport aircraft . light scattering meters transport aircraft DEF A discharge of atmospheric electricity optical equipment . light transport aircraft optical measuring instruments acommpanied by a vivid flash of light. RT ∞ aircraft . light scattering meters multiengine vehicles electric current meteorological instruments passenger aircraft . electric discharges . . lightning light sources light valves . . . ball lightning light sources GS DEF Optical shutters which, when activated . . . cloud-to-cloud discharges . illuminators by light, become either transparent or opaque. . . . cloud-to-ground discharges RT arc lamps electro-optics . . . intracloud discharges RT cathodoluminescence . . . leaders (meteorology) light modulation dayglow liquid crystals ... stepped leaders duochromators optical data processing RT ∞ arresters electric arcs atmospheric electricity electroluminescence light water electric arcs flash lamps DEF Water in which both hydrogen atoms in electric sparks glow discharges each molecule are of the isotope protium. Used electricity **HCN** lasers for protium. electrodeless discharges heat sources protium elves illuminating GS hydrogen compounds gas discharges light water lightning suppression nitrogenation lasers lighting equipment water luminaires radiative recombination . light water 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 porous silicon heavy water reactors lightning suppression radiation sources weather modification
Iightning suppression GS light water reactors sun DEF Nuclear reactors using ordinary (rather atmospheric electricity than heavy) water as moderator. light speed climatology rates (per time) nuclear reactors electric discharges light speed . liquid cooled reactors lightning velocity . . water cooled reactors thunderstorms light speed . . light water reactors water moderated reactors high speed RT lights relativistic velocity USE **luminaires** Schwarzschild metric light-cone expansion field theory (physics) lignin light transmission Minkowski space DFF That part of plant material which is not UF optical absorption quantum mechanics saccharified by the action of 72 percent sulfuric transmission relativity acid or 42 percent hydrochloric acid, after the . electromagnetic wave transmission space-time functions resins, waxes, and tannins have been removed. . . light transmission GS biopolymers . . . light scattering Lighthill gas model . lignin models RT cellulose GS RT absorptance atmospheric optics Lighthill gas model ∞ polymers boundary layer flow gas mixtures atmospheric refraction lignite Coal of relatively recent origin, an in-Fermat principle gas transport fiber optics hypersonic flow termediate between peat and bituminous coal. flicker molecular theory fuels . chemical fuels gamma ray lasers transport properties geometrical optics . . hydrocarbon fuels Lighthill method haze . . . fossil fuels airfoil profiles holographic optical elements . . . . coal illuminating airfoils . . . . lignite conformal mapping resources integrated optics flow theory . Earth resources integral transformations . . fossil fuels lasers low visibility ∞ methodology . . . coal molecular absorption . . . . lignite opacity lighting rocks optical bistability USE illuminating . sedimentary rocks optical coupling . . carbonaceous rocks optical properties lighting equipment . . . coal optical reflection lighting equipment ... lignite illuminators optical waveguides ashes . luminaires rainbows bitumens Sagnac effect . . aircraft lights carbonaceous materials squeezed states (quantum theory) . . airport lights coal gasification . . . runway lights stimulated emission devices coal liquefaction thermochromic coatings arc lamps coal utilization translucence . . flash lamps coke transparence . . . alkali vapor lamps energy conversion . . mercury lamps energy policy energy technology turbidity

. . quartz lamps

. . searchlights

gaseous fuels

ultraviolet lasers visibility

	11.5.1	Proceedings of the control of the co
hydrocarbon fuel production	thigh	conditions in inland waters.
hydrogen production	RT appendages	RT aquifers
hydropyrolysis	hindlimb suspension	arroyos
synthane	human body	Earth hydrosphere
• • • • • • • • • • • • • • • • • • • •	∞ limbs	fresh water
LIGO (observatory)	∞ IIITID3	
	lima	geochemistry
(added December 2000)	lime	geophysics
UF Laser Interferometer	USE calcium oxides	ground water
Gravitational-Wave Observatory		∞ hydraulics
GS antennas	limen	hydrography
. gravitational wave antennas	DEF Threshold; a psychophysical concept	hydrology
	denoting the lowest detectable intensity of any	
LIGO (observatory)		Lake Texoma (OK-TX)
observatories	sensory stimulus.	lakes
. astronomical observatories	RT psychological tests	marine biology
LIGO (observatory)	thresholds (perception)	marine chemistry
RT astronomical interferometry		ponds
gravitational waves	limestone	
•	DEF Sedimentary rock composed princi-	potable water
laser interferometry		rain
	pally of calcium carbonate (the mineral calcite)	streams
likelihood ratio	or the double carbonate of calcium and magne-	water
DEF The probability of a random drawing of	sium (the mineral dolomite) or mixture of the	water management
a specified sample from a population, assuring a	two.	
given hypothesis about the parameters of the	GS rocks	water pollution
		water resources
population, divided by the probability of a ran-	. sedimentary rocks	wells
dom drawing of the same sample, assuring that	limestone	
the parameters of the population are such that	RT aggregates	limonite
this probability is maximized.	calcium carbonates	GS iron compounds
GS ratios	dolomite (mineral)	
. likelihood ratio	Earth resources	. limonite
		minerals
statistical analysis	fluxes	. limonite
. likelihood ratio	minerals	
RT estimates	schist	Lincoln Experimental Satellites
Fisher information	soils	
	30113	UF LES (satellites)
mathematical models	#	GS artificial satellites
maximum likelihood estimates	limitations	. Lincoln Experimental Satellites
probability theory	USE constraints	·
statistical tests		line current
otational toolo	limiter amplifiers	
limb brinktoning	GS amplifiers	GS electric current
limb brightening	•	. line current
DEF The increase in the intensity of radio or	. limiter amplifiers	RT electric power supplies
x ray brightness of the sun or other stars from its		electrodynamics
center to its limb.	limiter circuits	magnetohydrodynamic flow
RT B stars	GS circuits	
	. limiter circuits	plasma currents
brightness		∞ power supplies
brightness temperature	clipper circuits	
∞ limbs	RT circulators (phase shift circuits)	line of sight
solar flux	clamping circuits	DEF An aim or observation taken with me
solar flux density	current regulators	
	power limiters	chanical or optical aid to establish a direct path
solar granulation	power infliters	to an objective, target, etc.
solar limb		RT area
stellar atmospheres	limiters (fusion reactors)	coordinates
stellar luminosity	DEF Material aperture in fusion power reac-	∞ direction
··· · · · · · · · · · · · · · · · · ·	tors which collect particles from the outer sur-	loci
limb darkening	faces of the plasmas to control their transport to	
•		proportional navigation
DEF A condition, sometimes observed on	regions of low density.	targets
celestial bodies, in which the brightness of the	RT blankets (fusion reactors)	
object decreases as the edges or limbs of the	controlled fusion	line of sight communication
object are approached. The sun and Jupiter	divertors (fusion reactors)	DEF Electromagnetic wave propagation
exhibit limb darkening.	fusion reactors	
		usually microwaves, in a straight line between
GS darkening	moderation (energy absorption)	the transmitter and receiver. The useful trans
. limb darkening	moderators	mission distance is generally limited to the hori
RT B stars	plasma control	zon as sighted from the elevation of the trans
binary stars	plasma loss	mitter.
∞ limbs	reactor design	GS telecommunication
solar limb	reactor materials	
		. communication
stellar atmospheres	tokamak devices	line of sight communication
stellar luminosity	toroidal plasmas	RT boresight error
	walls	frequency modulation
∞ limbs		space communication
SN (USE OF A MORE SPECIFIC TERM IS	∞ limits	
RECOMMENDEDCONSULT THE TERMS		television transmission
LISTED BELOW)	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	
RT Earth limb	LISTED BELOW)	line shape
	RT ignition limits	GS shapes
limb brightening		
limb brightening	•	
limb darkening	limits (mathematics)	. line shape
limb darkening limbs (anatomy)	•	RT curves (geometry)
limb darkening	limits (mathematics) range (extremes)	RT curves (geometry) inflection points
limb darkening limbs (anatomy)	limits (mathematics)	RT curves (geometry)
limb darkening limbs (anatomy) lunar limb planetary limb	limits (mathematics) range (extremes)  limits (mathematics)	RT curves (geometry) inflection points
limb darkening limbs (anatomy) lunar limb	limits (mathematics) range (extremes)  limits (mathematics) GS analysis (mathematics)	RT curves (geometry) inflection points  ∞ profiles
limb darkening limbs (anatomy) lunar limb planetary limb solar limb	limits (mathematics) range (extremes)  limits (mathematics) GS analysis (mathematics) . calculus	RT curves (geometry) inflection points ∞ profiles  line spectra
limb darkening limbs (anatomy) lunar limb planetary limb solar limb  limbs (anatomy)	limits (mathematics) range (extremes)  limits (mathematics) GS analysis (mathematics) . calculus limits (mathematics)	RT curves (geometry) inflection points  ∞ profiles  line spectra  DEF The spontaneous emission of electro
limb darkening limbs (anatomy) lunar limb planetary limb solar limb  limbs (anatomy) GS anatomy	limits (mathematics) range (extremes)  limits (mathematics) GS analysis (mathematics) . calculus	RT curves (geometry) inflection points ∞ profiles  line spectra DEF The spontaneous emission of electro magnetic radiation from the bound electrons as
limb darkening limbs (anatomy) lunar limb planetary limb solar limb  limbs (anatomy)	limits (mathematics) range (extremes)  limits (mathematics) GS analysis (mathematics) . calculus limits (mathematics)	RT curves (geometry) inflection points  ∞ profiles  line spectra  DEF The spontaneous emission of electro
limb darkening limbs (anatomy) lunar limb planetary limb solar limb  limbs (anatomy) GS anatomy . limbs (anatomy)	limits (mathematics) range (extremes)  limits (mathematics) GS analysis (mathematics) . calculus . limits (mathematics) . real variables . extremum values	RT curves (geometry) inflection points ∞ profiles  line spectra  DEF The spontaneous emission of electro magnetic radiation from the bound electrons as they jump from high to low energy levels in a
limb darkening limbs (anatomy) lunar limb planetary limb solar limb  limbs (anatomy) GS anatomy . limbs (anatomy) arm (anatomy)	limits (mathematics) range (extremes)  limits (mathematics) GS analysis (mathematics) . calculus . limits (mathematics) . real variables . extremum values limits (mathematics)	RT curves (geometry) inflection points ∞ profiles  line spectra  DEF The spontaneous emission of electro magnetic radiation from the bound electrons a they jump from high to low energy levels in a atom. Used for spectral lines.
limb darkening limbs (anatomy) lunar limb planetary limb solare limb  limbs (anatomy) GS anatomy . limbs (anatomy) arm (anatomy) elbow (anatomy)	limits (mathematics) range (extremes)  limits (mathematics) GS analysis (mathematics) . calculus . limits (mathematics) . real variables . extremum values limits (mathematics) RT differential calculus	RT curves (geometry) inflection points ∞ profiles  line spectra  DEF The spontaneous emission of electro magnetic radiation from the bound electrons at they jump from high to low energy levels in at atom. Used for spectral lines.  UF spectral lines
limb darkening limbs (anatomy) lunar limb planetary limb solar limb  limbs (anatomy) GS anatomy . limbs (anatomy) arm (anatomy) elbow (anatomy) forearm	limits (mathematics) range (extremes)  limits (mathematics) GS analysis (mathematics) . calculus . limits (mathematics) . real variables . extremum values limits (mathematics)	RT curves (geometry) inflection points
limb darkening limbs (anatomy) lunar limb planetary limb solare limb  limbs (anatomy) GS anatomy . limbs (anatomy) arm (anatomy) elbow (anatomy)	limits (mathematics) range (extremes)  limits (mathematics) GS analysis (mathematics) . calculus . limits (mathematics) . real variables . extremum values limits (mathematics) RT differential calculus	RT curves (geometry) inflection points ∞ profiles  line spectra  DEF The spontaneous emission of electro magnetic radiation from the bound electrons at they jump from high to low energy levels in at atom. Used for spectral lines.  UF spectral lines
limb darkening limbs (anatomy) lunar limb planetary limb solar limb  limbs (anatomy) GS anatomy . limbs (anatomy) arm (anatomy) elbow (anatomy) forearm hand (anatomy)	limits (mathematics) range (extremes)  limits (mathematics) GS analysis (mathematics) . calculus . limits (mathematics) . real variables extremum values limits (mathematics)  RT differential calculus ∞ envelopes	RT curves (geometry) inflection points  ∞ profiles  line spectra  DEF The spontaneous emission of electro magnetic radiation from the bound electrons at they jump from high to low energy levels in at atom. Used for spectral lines.  UF spectral lines  GS spectra  . radiation spectra
limb darkening limbs (anatomy) lunar limb planetary limb solar limb  limbs (anatomy)  GS anatomy . limbs (anatomy) arm (anatomy) elbow (anatomy) forearm hand (anatomy) fingers	limits (mathematics) range (extremes)  limits (mathematics) GS analysis (mathematics) . calculus limits (mathematics) . real variables extremum values limits (mathematics)  RT differential calculus ∞ envelopes ∞ limits	RT curves (geometry) inflection points ∞ profiles  line spectra  DEF The spontaneous emission of electro magnetic radiation from the bound electrons at they jump from high to low energy levels in at atom. Used for spectral lines.  UF spectral lines GS spectra . radiation spectra . electromagnetic spectra
limb darkening limbs (anatomy) lunar limb planetary limb solar limb  limbs (anatomy) GS anatomy . limbs (anatomy) arm (anatomy) elbow (anatomy) forearm . hand (anatomy) fingers . leg (anatomy)	limits (mathematics) range (extremes)  limits (mathematics) GS analysis (mathematics) . calculus . limits (mathematics) . real variables . extremum values limits (mathematics)  RT differential calculus ∞ envelopes ∞ limits  limnology	RT curves (geometry) inflection points  ∞ profiles  line spectra  DEF The spontaneous emission of electro magnetic radiation from the bound electrons at they jump from high to low energy levels in at atom. Used for spectral lines.  UF spectral lines GS spectra  radiation spectra electromagnetic spectra  . line spectra
limb darkening limbs (anatomy) lunar limb planetary limb solar limb  limbs (anatomy)  GS anatomy . limbs (anatomy) arm (anatomy) elbow (anatomy) forearm hand (anatomy) fingers	limits (mathematics) range (extremes)  limits (mathematics) GS analysis (mathematics) . calculus limits (mathematics) . real variables extremum values limits (mathematics)  RT differential calculus ∞ envelopes ∞ limits	RT curves (geometry) inflection points ∞ profiles  line spectra  DEF The spontaneous emission of electro magnetic radiation from the bound electrons at they jump from high to low energy levels in at atom. Used for spectral lines.  UF spectral lines GS spectra . radiation spectra . electromagnetic spectra

. . . . 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 absorption spectra atomic energy levels Bohr theory emission spectra fine structure flame spectroscopy frequencies hyperfine structure infrared spectra light (visible radiation) lines molecular spectroscopy oscillator strengths pressure broadening Raman spectra Raman spectroscopy resonance lines 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

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 GS . AC generators . . linear alternators free-piston engines

∞ generators Stirling engines

### linear amplifiers

amplifiers GS

. linear amplifiers

#### linear arravs

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

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

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

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

operators (mathematics)

linear operators

RT 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

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.

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.

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

. optimal control

... linear quadratic Gaussian control

optimization

. linear quadratic regulator ... linear quadratic Gaussian

control . optimal control

. linear quadratic Gaussian control

RT ∞ 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	RT	organic materials		∞ tubes
00	LQR	liners		linkoo	
GS	optimization . linear quadratic regulator	USE	linings	linkag RT	
	linear quadratic Gaussian control	002	90		connectors
RT ∝	control	∞ lines			coupling
	control systems design	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		couplings
	control theory		LISTED BELOW)		eccentrics
	controllers feedback control	RT	delay lines		fasteners
	Kalman filters		line spectra lines of force		fittings joints (junctions)
	optimal control		pipelines		latches
	·		terminator lines		∞ links
	eceivers		tetherlines		mechanical devices
GS	receivers . linear receivers		transmission lines		unions (connectors)
RT	frequency response		underground transmission lines		yokes
• • • •	Nyquist frequencies	lines (q	eometry)	linking	1
		GS	geometry	USĔ	
linear re			. Euclidean geometry		
USE	linear quadratic regulator		lines (geometry)	∞ links	(LICE OF A MODE OPECIFIC TERM IS
linear s	ystems		chords (geometry) geodesic lines	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS
RT	distributed parameter systems	RT	radii	RT	LISTED BELOW) chains
	linear operators		reciprocal theorems	111	data links
	nonlinear systems		segments		linkages
	robustness (mathematics) state estimation	lines of	force		links (mathematics)
~	systems	RT	barium ion clouds		(
	tracking problem		conjugate points	GS	(mathematics) geometry
	uncertain systems		field aligned currents	GS	. topology
linear to	ansformations		flux pinning flux transfer events		links (mathematics)
GS	algebra	cx	flux transfer events force	RT	∞ links
	. linear transformations		lines		III
	functions (mathematics)		magnetic circuits	GS	ille equations analysis (mathematics)
	. linear transformations		magnetic domains	40	. real variables
	transformations (mathematics) . linear transformations		magnetic fields magnetic flux		differential equations
RT	Fourier analysis		magnetic mirrors		partial differential equations
	Jordan form		magnetic properties	рт	Liouville equations  ∞ equations
	linear operators		magnetostatic fields	n i	plasma physics
	matrices (mathematics) orthogonal functions		nonuniform magnetic fields		plasmas (physics)
	Schwartz inequality		polar cusps		statistical mechanics
	ochwartz inequality				otatiotical moonamoo
	vector spaces	Ling-Te	mco-Vought aircraft		
P	vector spaces	ŬF	LTV aircraft		ille theorem
	vector spaces		LTV aircraft Ling-Temco-Vought aircraft		ille theorem analysis (mathematics)
	vector spaces	ŬF	LTV aircraft Ling-Temco-Vought aircraft . A-7 aircraft		ille theorem analysis (mathematics) . complex variables Liouville theorem
	vector spaces  ibration vibration	ŬF	LTV aircraft Ling-Temco-Vought aircraft		ille theorem analysis (mathematics) . complex variables . Liouville theorem theorems
	vector spaces  ibration vibration structural vibration linear vibration free vibration	ŬF GS	LTV aircraft Ling-Temco-Vought aircraft . A-7 aircraft . F-8 aircraft		ille theorem analysis (mathematics) . complex variables Liouville theorem
GS	vector spaces  ibration vibration structural vibration . linear vibration free vibration missile vibration	ŬF GS RT ∝	LTV aircraft Ling-Temco-Vought aircraft . A-7 aircraft . F-8 aircraft . XC-142 aircraft aircraft	GS	analysis (mathematics) . complex variables . Liouville theorem theorems . Liouville theorem
GS	vector spaces  ibration vibration structural vibration . linear vibration free vibration missile vibration random vibration	ŬF GS RT ∝	LTV aircraft Ling-Temco-Vought aircraft . A-7 aircraft . F-8 aircraft . XC-142 aircraft e aircraft		analysis (mathematics) . complex variables . Liouville theorem theorems . Liouville theorem
GS RT	vector spaces  ibration vibration structural vibration linear vibration free vibration missile vibration random vibration vibration mode	ŬF GS RT ∝	LTV aircraft Ling-Temco-Vought aircraft . A-7 aircraft . F-8 aircraft . XC-142 aircraft aircraft	GS lip rea	analysis (mathematics) . complex variables . Liouville theorem theorems . Liouville theorem
GS RT	vector spaces  ibration vibration structural vibration linear vibration free vibration missile vibration random vibration vibration vibration mode	ŬF GS RT ∝	LTV aircraft Ling-Temco-Vought aircraft . A-7 aircraft . F-8 aircraft . XC-142 aircraft aircraft ics linguistics . machine translation . phonemics	GS lip rea	analysis (mathematics) . complex variables . Liouville theorem theorems . Liouville theorem ading communicating . lip reading reading
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Iinearity DEF actual ir dicted b and low as a per GS RT	vector spaces  ibration vibration . structural vibration . linear vibration missile vibration random vibration vibration mode  The maximum deviation between an astrument reading and the reading preya straight line drawn between upper er calibration points; usually expressed coentage of the full scale.  linearity . collinearity accuracy consistency differential equations dynamic characteristics errors functions (mathematics) instrument errors linearization nonlinearity tolerances (mechanics) variability  ation  Bernoulli theorem equations Galerkin method linearity simplification  fabrics . linen	UF GS  RT ~  linguist GS  RT  lining p RT  linings UF GS RT	LTV aircraft Ling-Temco-Vought aircraft . A-7 aircraft . F-8 aircraft . XC-142 aircraft . XC-142 aircraft . aircraft . ics linguistics . machine translation . phonemics . phonetics . psycholinguistics . semantics . syntax languages natural language processing orthography phonemes predicate logic speech speech recognition  rocesses coating coatings insulation linings sealing tunneling (excavation)  liners linings . rocket linings bushings casing coatings inserts insulation	lip rea GS lipid r GS RT lipids GS	analysis (mathematics) . complex variables . Liouville theorem theorems . Liouville theorem theorems . Liouville theorem  ading communicating . lip reading reading reading . lip reading metabolism metabolism protein metabolism . lipid metabolism glucocorticoids ∞ nutrients oils  organic compounds . lipids . calciferol . castor oil . fats . lipoproteins . phylloquinone . retinene . steroids . cholesterol . corticosteroids . aldosterone . hydroxycorticosteroid . cortisone . glucocorticoids . estrogens . prostaglandins . tocopherol
Iinearity DEF actual ir dicted b and low as a per GS RT	vector spaces  ibration vibration . structural vibration . linear vibration free vibration missile vibration random vibration vibration mode  The maximum deviation between an astrument reading and the reading prey a straight line drawn between upper er calibration points; usually expressed centage of the full scale.  linearity . collinearity accuracy consistency differential equations dynamic characteristics errors functions (mathematics) instrument errors linearization nonlinearity tolerances (mechanics) variability  ation  Bernoulli theorem equations Galerkin method linearity simplification	UF GS  RT ~  linguist GS  RT  lining p RT  linings UF GS RT	LTV aircraft Ling-Temco-Vought aircraft . A-7 aircraft . F-8 aircraft . XC-142 aircraft aircraft ics linguistics . machine translation . phonemics . phonetics . psycholinguistics . semantics . syntax languages natural language processing orthography phonemes predicate logic speech speech recognition  rocesses coating coatings insulation linings sealing tunneling (excavation)  liners linings . rocket linings bushings casing coatings coating coatings insulation linings sealing tunneling (excavation)	lip rea GS lipid r GS RT	analysis (mathematics) . complex variables . Liouville theorem theorems . Liouville theorem theorems . Liouville theorem  ading communicating . lip reading reading reading . lip reading metabolism metabolism protein metabolism . lipid metabolism glucocorticoids ∞ nutrients oils  organic compounds . lipids . calciferol . castor oil . fats . lipoproteins . phylloquinone . retinene . steroids . cholesterol . corticosteroids . aldosterone . hydroxycorticosteroid . cortisone . glucocorticoids . estrogens . prostaglandins . tocopherol
Iinearity DEF actual ir dicted b and low as a per GS RT	vector spaces  ibration vibration . structural vibration . linear vibration free vibration missile vibration random vibration vibration mode  The maximum deviation between an estrument reading and the reading preya straight line drawn between upper er calibration points; usually expressed centage of the full scale.  linearity . collinearity . collinearity accuracy consistency differential equations dynamic characteristics errors functions (mathematics) instrument errors linearization nonlinearity tolerances (mechanics) variability  ation Bernoulli theorem equations Galerkin method linearity simplification  fabrics . linen fibers	UF GS  RT ~  linguist GS  RT  lining p RT  linings UF GS RT	LTV aircraft Ling-Temco-Vought aircraft . A-7 aircraft . F-8 aircraft . XC-142 aircraft . XC-142 aircraft . aircraft . ics linguistics . machine translation . phonemics . phonetics . psycholinguistics . semantics . syntax languages natural language processing orthography phonemes predicate logic speech speech recognition  rocesses coating coatings insulation linings sealing tunneling (excavation)  liners linings . rocket linings bushings casing coatings inserts insulation	lip rea GS lipid r GS RT lipids GS	analysis (mathematics) . complex variables . Liouville theorem theorems . Liouville theorem theorems . Liouville theorem  ading communicating . lip reading reading . lip reading metabolism metabolism . protein metabolism glucocorticoids . nutrients oils  organic compounds . lipids . calciferol . castor oil . fats . lipoproteins . phylloquinone . retinene . steroids cholesterol . corticosteroids aldosterone . hydroxycorticosteroid cortisone . glucocorticoids . estrogens . prostaglandins . tocopherol amino acids

۰	o nutrients		natural gas	RT	lubrication
linaia a	-:-		liquefied natural gas	المنتنا	buoothin a
lipoic a GS	acids		. gaseous fuels natural gas	GS	breathing respiration
ao	. carboxylic acids		liquefied natural gas	40	. liquid breathing
	fatty acids		gases	RT	acclimatization
	lipoic acid		. flammable gases		pressure breathing
	organic compounds		gaseous fuels		resuscitation
	. carboxylic acids		natural gas	المنتنا	hui dana a
	. fatty acids		liquefied natural gas		bridges
	lipoic acid		. liquefied natural gas		led September 1993) Axisymmetric liquid columns held b
lipopro	teins		. liquefied gases liquefied natural gas		y forces and forming an interface be
GS	biopolymers		geophysical fluids		wo solids or between two gaps in a solid
	. proteins		. natural gas		in space processing.
	lipoproteins		liquefied natural gas	RT -	∞ bridges
	organic compounds		liquids		capillary flow
	. lipids		. liquefied gases		containerless melts
	lipoproteins . proteins		. liquefied natural gas		interfacial tension liquid-solid interfaces
	lipoproteins		organic compounds . hydrocarbons		low gravity manufacturing
	· · · · · · · · · · · · · · · · · · ·		natural gas		Marangoni convection
lips (an	atomy)		liquefied natural gas		space manufacturing
GS	anatomy		resources		space processing
	. digestive system		. Earth resources		
	mouth		. fossil fuels		chromatography
	lips (anatomy) . face (anatomy)		natural gas	GS	chemical tests . chemical analysis
	mouth	DT	liquefied natural gas		chromatography
	lips (anatomy)	RT	methane		liquid chromatography
RT	head (anatomy)	liquid	air	RT	
	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	GS			gel chromatography
•	tz condition	0.0	. gas mixtures		paper chromatography
GS	analysis (mathematics)		air		sorption
	. real variables		liquid air	liquid 4	andled recetors
	Lipschitz condition conditions		. liquefied gases	GS	cooled reactors nuclear reactors
	. Lipschitz condition		liquid air	45	. liquid cooled reactors
RT	differential equations		liquids . liquefied gases		liquid metal cooled reactors
	•		. liquid air		advanced sodium cooled reactor
liquefac			mixtures		Experimental Breeder Reactor 1
GS	phase transformations		. solutions		Experimental Breeder Reactor 2
	. liquefaction coal liquefaction		gas mixtures		Lithium Cooled Reactor Experiment
RT •	condensation		air		Los Alamos Molten Plutonium
	o conversion		liquid air		Reactor
	jet condensers	liquid	air cycle engines		military compact reactors
	melting		LACE (engine)		sodium graphite reactors
	noncondensable gases	GS			sodium reactor experiment
	thixotropy		. rocket engines		organic cooled reactors
liquefie	d gases		liquid propellant rocket engines		experimental organic cooled reactors
GS	gases	DT	liquid air cycle engines		water cooled reactors
	. liquefied gases	RT	aerospace planes hydrogen oxygen engines		boiling water reactors
	liquefied natural gas		sustainer rocket engines		experimental boiling water
	liquid air		turborocket engines		reactors
	liquid ammonia liquid fluorine		3		Halden Boiling Water Reactor
	liquid habime	liquid	alloys		Los Alamos Water Boiler Reactor
	liquid helium 2	GS			Pathfinder nuclear reactor
	liquid hydrogen		. liquid alloys		Spert reactors
	liquid neon	RT	metals		heavy water reactors
	liquid nitrogen	li accel at			heavy water components test
	liquid oxygen	GS	ammonia gases		reactors
	liquids	ao	. ammonia		plutonium recycle test reactor
	. liquefied gases liquefied natural gas		liquid ammonia		zero power reactor 2
	liquid air		. liquefied gases		light water reactors NRX reactors
	liquid ammonia		liquid ammonia		Plum Brook Reactor
	liquid fluorine		inorganic compounds		pressurized water reactors
	liquid helium		. ammonia		spectral shift control reactor
	liquid helium 2		<b>liquid ammonia</b> liquids		swimming pool reactors
	liquid hydrogen		. liquefied gases		zero power reactors
	liquid neon liquid nitrogen		liquid ammonia		zero power reactor 2
	liquid oxygen		nitrogen compounds		zero power reactor 3 zero power reactor 6
RT	condensates		. ammonia		zero power reactor 9
	condensers (liquefiers)		liquid ammonia	RT	sodium cooling
	cryogenic rocket propellants	RT			, and the second
	cryogenics		liquid fuels		cooling
	gas mixtures	lianid	atomization	SN	(COOLING WITH LIQUIDS)
	liquid rocket propellants solid cryogen cooling	GS		UF GS	water cooling cooling
	Sond Gryogen Cooling	33	. liquid atomization	GS	. liquid cooling
liquefie	d natural gas	RT			film cooling
UF	LNG		spraying	RT	
GS	fuels	¥= .			capillary pumped loops
	. chemical fuels		bearings		coolants
	hydrocarbon fuels fossil fuels	GS	bearings . <b>liquid bearings</b>		cooling systems sodium cooling
	100011 14010		quiu bouinigo		Statum Sooming

space cooling (buildings) liquid hydrogen thrust vector control sweat cooling liquid rocket propellants thermal pollution liquids liquid lasers GS stimulated emission devices water immersion synthetic fuels . lasers liquid crystals . liquid lasers liquid helium crystals carbon lasers helium 2 liquid crystals chemical lasers GS chemical elements anisotropic fluids dye lasers . rare gases cholesterol infrared lasers . . helium ferroelectric materials organic lasers ... liquid helium light valves ... liquid helium 2 liquid levels gases GS level (horizontal) liquid drops . liquefied gases USE drops (liquids) liquid levels . . liquid helium . . . liquid helium 2 RT fluid boundaries liquid filled shells . rare gases liquid lithium shells (structural forms) . fluid filled shells GS chemical elements . . . liquid helium . liquid filled shells . alkali metals . liquid helium 2 RT hydrodynamic ram effect . . lithium liquids propellant tanks . liquid lithium . cryogenic fluids reinforced shells liquids . . liquid helium shell stability . liquid metals . liquid helium 2 .. liquid lithium ∞ storage . liquefied gases metals tanks (containers) .. liquid helium ∞ vessels . alkali metals ... liquid helium 2 . . lithium cryostats liquid flow ... liquid lithium superfluidity fluid flow . liquid metals two fluid models . liquid flow .. liquid lithium . . open channel flow . water flow liquid helium 2 liquid mercury GS chemical elements USE mercury (metal) critical flow gas flow . rare gases head (fluid mechanics) . . helium liquid metal cooled reactors head flow ... liquid helium LMCR (reactors) nuclear reactors hydrodynamic coefficients . liquid helium 2 laminar flow . liquid cooled reactors gases . liquefied gases .. liquid metal cooled reactors mass flow multiphase flow . . . advanced sodium cooled reactor Experimental Breeder Reactor 1 nonNewtonian flow ... liquid helium 2 . . . Experimental Breeder Reactor 2 orifice flow . rare gases ... Lithium Cooled Reactor . . helium pipe flow pressure gradients . . . liquid helium Experiment liquid helium 2 . . . Los Alamos Molten Plutonium pressure heads rheology Reactor liquids cryogenic fluids . . liquid helium single-phase flow Soret coefficient . . . military compact reactors . . . sodium graphite reactors . sodium reactor experiment steady flow . liquid helium 2 Enrico Fermi atomic power plant subcritical flow liquefied gases . . liquid helium sodium supercritical flow turbulent flow . liquid helium 2 liquid metal fast breeder reactors two phase flow cryostats LMFBR uniform flow superfluidity nuclear reactors unsteady flow . breeder reactors liquid hydrogen . . liquid metal fast breeder liquid fluorine chemical elements chemical elements reactors . hydrogen . fast nuclear reactors
. . liquid metal fast breeder . halogens . liquid hydrogen . . fluorine gases ... liquid fluorine hydrogen
. liquid hydrogen
. liquefied gases
. liquid hydrogen reactors gases nuclear power reactors . liquefied gases liquid metals . liquid fluorine liquids liquids liquids
. cryogenic fluids
. . liquid hydrogen
. liquefied gases . liquefied gases liquid metals .. liquid fluorine . . liquid lithium ... liquid potassium liquid fuels . . liquid sodium liquid hydrogen GS fuels . . mercury (metal) cryogenic rocket propellants . chemical fuels ... mercury isotopes fuels .. liquid fuels . . mercury vapor hydrogen fuels ... antimisting fuels metals hydrogen-based energy liquid fuels . . . diesel fuels . liquid metals . . . gasoline . . liquid lithium slush hydrogen ... hydrogen fuels . . liquid potassium topping cycle engines ... jet engine fuels . . liquid sodium .... JP-4 jet fuel . . mercury (metal) . . . mercury isotopes . . . . JP-5 jet fuel liquid injection . mercury vapor . . . . JP-6 jet fuel injection casting . . . . JP-7 jet fuel . fluid injection ... liquid injection levitation melting JP-8 jet fuel . . . fuel oils ... deep well injection (wastes) lubricants . . kerosene . . water injection melting aircraft fuels film cooling metal vapors fuel injection automobile fuels squeeze casting fuel production fuel sprays gaseous fuels liquid neon

mixing

propellant sprays

liquid ammonia

GS chemical elements

# liquid nitrogen

	. rare gases	eutectics	Juno 2 launch vehicle
	neon	liquid phase epitaxy	Juno launch vehicles
	liquid neon	liquids	Jupiter C rocket vehicle
	gases	liquidus	Jupiter missile Lance missile
	. liquefied gases liquid neon	melting points phase diagrams	Meteor 1 rocket vehicle
	. rare gases	phase separation (materials)	Navaho missile
	neon	∞ phases	Nike-Ajax missile
	liquid neon	solid phases	Nomad launch vehicle
	liquids	solid solutions	Nova launch vehicles
	. liquefied gases	solidus	propellant tanks
	liquid neon	solubility	restartable rocket engines
liquid n	itrogon	supercritical pressures	retrorocket engines
GS	chemical elements	syntectic alloys	Saturn S-1 stage Saturn S-1B stage
ao	. nitrogen	transition temperature vapor phase epitaxy	Saturn S-16 stage Saturn S-1C stage
	liquid nitrogen	vapor phases	Saturn S-2 stage
	gases	Tapar product	Saturn S-4 stage
	. liquefied gases	liquid plus solid zones	Saturn S-4B stage
	liquid nitrogen	USE mushy zones	Saturn stages
	. nitrogen	liavid nataonium	solid propellant rocket engines
	liquid nitrogen	liquid potassium GS chemical elements	Sparrow 3 missile
	liquids	. alkali metals	sustainer rocket engines
	. cryogenic fluids liquid nitrogen	potassium	Talos missile
	. liquefied gases	liquid potassium	Thor Able rocket vehicle Thor Agena launch vehicle
	liquid nitrogen	liquids	Thor Delta launch vehicle
RT	high temperature superconductors	. liquid metals	Thor launch vehicles
	solid cryogens	liquid potassium	Thorad launch vehicles
		metals	Titan ICBM
	xidizers	. alkali metals	Titan launch vehicles
GS	liquids	potassium	V-1 missile
	. liquid oxidizers	<b>liquid potassium</b> . liquid metals	V-2 missile
	oxidizers	. liquid metals	vanguard 2 launch vehicle
RT	. liquid oxidizers rocket oxidizers	Ilquiu potassium	Vega launch vehicle
111	TOURET UNIGIZETS	liquid propellant rocket engines	Vernier engines Veronique rocket vehicles
liquid o	xygen	DEF Rocket engines using a propellant or	Viking rocket vehicle
UF	LOX (oxygen)	propellants in liquid form.	X-33 reusable launch vehicle
GS	chemical elements	GS engines	X-34 reusable launch vehicle
	. oxygen	. rocket engines	
	liquid oxygen	liquid propellant rocket engines	liquid rocket propellants
	gases	AJ-10 engine F-1 rocket engine	DEF Specifically, rocket propellants in liquid
	. liquefied gases	H-1 engine	form. Examples of liquid propellants include
	. liquid oxygen		fuels such as alcohol, gasoline, aniline, liquid
	. oxygen	hydrazine engines	ammonia, and liquid hydrogen; oxidants such as
	. oxygen liquid oxygen		ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also appli-
	. oxygen liquid oxygen liquids	hydrazine engines hydrogen oxygen engines	ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also applicable as a monopropellant), and nitric acid;
	. oxygen liquid oxygen	hydrazine engines hydrogen oxygen engines J-2 engine M-1 engine RL-10-A-1 engine	ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also appli-
	. oxygen liquid oxygen liquids . cryogenic fluids	hydrazine engines hydrogen oxygen engines J-2 engine M-1 engine RL-10-A-1 engine RL-10-A-3 engine	ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also applicable as a monopropellant), and nitric acid; additives such as water; and monopropellants
	oxygen Ilquid oxygen Ilquids cryogenic fluids Ilquid oxygen Ilquid oxygen Ilquid oxygen Ilquid oxygen	hydrazine engines hydrogen oxygen engines J-2 engine M-1 engine RL-10-A-1 engine RL-10-A-3 engine liquid air cycle engines	ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also applicable as a monopropellant), and nitric acid; additives such as water; and monopropellants such as nitromethane. Used for bipropellants
	. oxygen . liquid oxygen liquids . cryogenic fluids . liquid oxygen . liquefied gases . liquid oxygen oxidizers	hydrazine engines hydrogen oxygen engines J-2 engine M-1 engine RL-10-A-1 engine RL-10-A-3 engine liquid air cycle engines LR-62-RM-2 engine	ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also applicable as a monopropellant), and nitric acid; additives such as water; and monopropellants such as nitromethane. Used for bipropellants and tripropellants.  UF bipropellants tripropellants
DT	. oxygen . liquid oxygen liquids . cryogenic fluids . liquid oxygen liquefled gases . liquid oxygen oxidizers . liquid oxygen	hydrazine engines hydrogen oxygen engines J-2 engine M-1 engine RL-10-A-1 engine RL-10-A-3 engine liquid air cycle engines LR-62-RM-2 engine LR-87-AJ-5 engine	ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also applicable as a monopropellant), and nitric acid; additives such as water; and monopropellants such as nitromethane. Used for bipropellants and tripropellants.  UF bipropellants tripropellants GS propellants
RT	. oxygen . liquid oxygen liquids . cryogenic fluids . liquid oxygen . liquefied gases . liquid oxygen oxidizers . liquid oxygen cryogenic rocket propellants	hydrazine engines hydrogen oxygen engines J-2 engine M-1 engine RL-10-A-1 engine RL-10-A-3 engine liquid air cycle engines LR-62-RM-2 engine LR-87-AJ-5 engine LR-91-AJ-5 engine	ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also applicable as a monopropellant), and nitric acid; additives such as water; and monopropellants such as nitromethane. Used for bipropellants and tripropellants.  UF bipropellants tripropellants GS propellants . rocket propellants
RT	. oxygen . liquid oxygen liquids . cryogenic fluids . liquid oxygen . liquefied gases . liquid oxygen oxidizers . liquid oxygen cryogenic rocket propellants FLOX	hydrazine engines hydrogen oxygen engines J-2 engine M-1 engine RL-10-A-1 engine RL-10-A-3 engine liquid air cycle engines LR-62-RM-2 engine LR-87-AJ-5 engine LR-91-AJ-5 engine LR-91-AJ-5 engine	ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also applicable as a monopropellant), and nitric acid; additives such as water; and monopropellants such as nitromethane. Used for bipropellants and tripropellants.  UF bipropellants tripropellants GS propellants rocket propellants . Ilquid rocket propellants
RT	. oxygen . liquid oxygen liquids . cryogenic fluids . liquid oxygen . liquefied gases . liquid oxygen oxidizers . liquid oxygen cryogenic rocket propellants FLOX oxygen-hydrocarbon rocket engines	hydrazine engines hydrogen oxygen engines J-2 engine M-1 engine RL-10-A-1 engine RL-10-A-3 engine liquid air cycle engines LR-62-RM-2 engine LR-87-AJ-5 engine LR-91-AJ-5 engine	ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also applicable as a monopropellant), and nitric acid; additives such as water; and monopropellants such as nitromethane. Used for bipropellants and tripropellants.  UF bipropellants tripropellants  GS propellants  rocket propellants  liquid rocket propellants  cryogenic rocket propellants
RT	. oxygen . liquid oxygen liquids . cryogenic fluids . liquid oxygen . liquefied gases . liquid oxygen oxidizers . liquid oxygen cryogenic rocket propellants FLOX	hydrazine engines hydrogen oxygen engines J-2 engine M-1 engine RL-10-A-1 engine RL-10-A-3 engine liquid air cycle engines LR-62-RM-2 engine LR-87-AJ-5 engine LR-91-AJ-5 engine LR-91-AJ-5 engine MA-2 engine MA-3 engine	ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also applicable as a monopropellant), and nitric acid; additives such as water; and monopropellants such as nitromethane. Used for bipropellants and tripropellants.  UF bipropellants tripropellants fripropellants rocket propellants . rocket propellants . liquid rocket propellants . cryogenic rocket propellants . gelled rocket propellants
	. oxygen . liquid oxygen liquids . cryogenic fluids . liquid oxygen . liquefied gases . liquid oxygen oxidizers . liquid oxygen cryogenic rocket propellants FLOX oxygen-hydrocarbon rocket engines	hydrazine engines hydrogen oxygen engines J-2 engine M-1 engine RL-10-A-1 engine RL-10-A-3 engine liquid air cycle engines LR-62-RM-2 engine LR-87-AJ-5 engine LR-91-AJ-5 engine MA-2 engine MA-3 engine MA-5 engine MA-5 engine MA-5 engine MA-5 engine MA-5 engine oxygen-hydrocarbon rocket engines	ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also applicable as a monopropellant), and nitric acid; additives such as water; and monopropellants such as nitromethane. Used for bipropellants and tripropellants.  UF bipropellants tripropellants such as nitromethane. Used for bipropellants and tripropellants.  UF bipropellants tripropellants rocket propellants . rocket propellants . liquid rocket propellants . gelled rocket propellants . gelled rocket propellants . hypergolic rocket propellants
liquid ox	. oxygen . liquid oxygen liquids . cryogenic fluids . liquid oxygen . liquid oxygen . liquid oxygen oxidizers . liquid oxygen cryogenic rocket propellants FLOX oxygen-hydrocarbon rocket engines rocket oxidizers  xygen hydrocarbon rocket engines oxygen-hydrocarbon rocket	hydrazine engines hydrogen oxygen engines J-2 engine M-1 engine RL-10-A-1 engine RL-10-A-3 engine liquid air cycle engines LR-62-RM-2 engine LR-87-AJ-5 engine LR-91-AJ-5 engine MA-2 engine MA-2 engine MA-3 engine MA-5 engine MA-5 engine MA-5 engine MA-5 engine MA-5 engine MA-5 engine NB-10 engines	ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also applicable as a monopropellant), and nitric acid; additives such as water; and monopropellants such as nitromethane. Used for bipropellants and tripropellants.  UF bipropellants tripropellants fripropellants rocket propellants . rocket propellants . liquid rocket propellants . cryogenic rocket propellants . gelled rocket propellants
liquid ox	. oxygen . liquid oxygen liquids . cryogenic fluids . liquid oxygen . liquid oxygen . liquid oxygen oxidizers . liquid oxygen oryogenic rocket propellants FLOX oxygen-hydrocarbon rocket engines rocket oxidizers	hydrazine engines hydrogen oxygen engines J-2 engine M-1 engine RL-10-A-1 engine RL-10-A-3 engine liquid air cycle engines LR-62-RM-2 engine LR-87-AJ-5 engine LR-91-AJ-5 engine MA-2 engine MA-2 engine MA-3 engine MA-5 engine MA-5 engine MA-5 engine MA-10-4-1 engines RL-10 engines RL-10-A-1 engine	ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also applicable as a monopropellant), and nitric acid; additives such as water; and monopropellants such as nitromethane. Used for bipropellants and tripropellants.  UF bipropellants tripropellants  GS propellants  . rocket propellants  . liquid rocket propellants  . cryogenic rocket propellants  . gelled rocket propellants  . hypergolic rocket propellants  . monopropellants  . monopropellants  . RP-1 rocket propellants  . slurry propellants
liquid ox USE	. oxygen . liquid oxygen liquids . cryogenic fluids . liquid oxygen . liquid oxygen . liquid oxygen oxidizers . liquid oxygen cryogenic rocket propellants FLOX oxygen-hydrocarbon rocket engines rocket oxidizers sygen hydrocarbon rocket engines oxygen-hydrocarbon rocket engines oxygen-hydrocarbon rocket engines	hydrazine engines hydrogen oxygen engines J-2 engine M-1 engine RL-10-A-1 engine RL-10-A-3 engine liquid air cycle engines LR-62-RM-2 engine LR-87-AJ-5 engine LR-91-AJ-5 engine MA-2 engine MA-2 engine MA-5 engine MA-5 engine MA-1 engine MA-3 engine MA-3 engine MA-1 engine RL-10-A-1 engine RL-10-A-3 engine	ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also applicable as a monopropellant), and nitric acid; additives such as water; and monopropellants such as nitromethane. Used for bipropellants and tripropellants.  UF bipropellants tripropellants such as nitromethane. Used for bipropellants and tripropellants  I bipropellants rocket propellants I iquid rocket propellants gelled rocket propellants bipropellants rocket propellants rocket propellants RP-1 rocket propellants sulurry propellants sulurry propellants sulurry propellants
liquid ox USE	. oxygen . liquid oxygen liquids . cryogenic fluids . liquid oxygen . liquid oxygen . liquid oxygen oxidizers . liquid oxygen oxidizers . liquid oxygen cryogenic rocket propellants FLOX oxygen-hydrocarbon rocket engines rocket oxidizers  cygen hydrocarbon rocket engines oxygen-hydrocarbon rocket engines oxygen-hydrocarbon rocket engines  hase epitaxy	hydrazine engines hydrogen oxygen engines J-2 engine M-1 engine RL-10-A-1 engine RL-10-A-3 engine liquid air cycle engines LR-62-RM-2 engine LR-87-AJ-5 engine LR-91-AJ-5 engine MA-2 engine MA-3 engine MA-5 engine MA-10 engine MA-5 engine MA-5 engine AI-10 engines RL-10 engines RL-10-A-1 engine RL-10-A-3 engine RL-10-A-3 engine pulse detonation engines	ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also applicable as a monopropellant), and nitric acid; additives such as water; and monopropellants such as nitromethane. Used for bipropellants and tripropellants.  UF bipropellants tripropellants rocket propellants . rocket propellants . liquid rocket propellants . eryogenic rocket propellants . gelled rocket propellants . hypergolic rocket propellants . monopropellants . RP-1 rocket propellants . slurry propellants . slurry propellants . slurry propellants . slush hydrogen . aerozine
liquid ox USE liquid p DEF	. oxygen . liquid oxygen liquids . cryogenic fluids . liquid oxygen . liquid oxygen . liquid oxygen oxidizers . liquid oxygen oxidizers . liquid oxygen cryogenic rocket propellants FLOX oxygen-hydrocarbon rocket engines rocket oxidizers  cygen hydrocarbon rocket engines oxygen-hydrocarbon rocket engines  hase epitaxy A liquid phase transformation during	hydrazine engines hydrogen oxygen engines J-2 engine M-1 engine RL-10-A-1 engine RL-10-A-3 engine liquid air cycle engines LR-62-RM-2 engine LR-87-AJ-5 engine LR-91-AJ-5 engine MA-2 engine MA-3 engine MA-10-40 engine MA-10-40 engine MA-10 engine MA-10 engine RL-10-A-1 engine RL-10-A-1 engine RL-10-A-3 engine pulse detonation engines pulse detonation engines Space Shuttle Main Engine	ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also applicable as a monopropellant), and nitric acid; additives such as water; and monopropellants such as nitromethane. Used for bipropellants and tripropellants.  UF bipropellants tripropellants SGS propellants . rocket propellants . liquid rocket propellants . cryogenic rocket propellants . gelled rocket propellants . hypergolic rocket propellants . monopropellants . RP-1 rocket propellants . slurry propellants . slurry propellants . slurry propellants . slush hydrogen . aerozine RT aircraft fuels
liquid ox USE liquid p DEF crystal g	. oxygen . liquid oxygen liquids . cryogenic fluids . liquid oxygen . liquefled gases . liquid oxygen oxidizers . liquid oxygen cryogenic rocket propellants FLOX oxygen-hydrocarbon rocket engines rocket oxidizers  xygen hydrocarbon rocket engines oxygen-hydrocarbon rocket engines  hase epitaxy A liquid phase transformation during growth.	hydrazine engines hydrogen oxygen engines J-2 engine M-1 engine RL-10-A-1 engine RL-10-A-3 engine liquid air cycle engines LR-62-RM-2 engine LR-87-AJ-5 engine LR-91-AJ-5 engine MA-2 engine MA-2 engine MA-10-A-1 engine MA-5 engine MA-5 engine MA-5 engine MA-5 engine NA-5 engine NA-5 engine Sengine Sengine Sengine RL-10-A-1 engine RL-10-A-3 engine RL-10-A-3 engine pulse detonation engines Space Shuttle Main Engine X-405 engine	ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also applicable as a monopropellant), and nitric acid; additives such as water; and monopropellants such as nitromethane. Used for bipropellants and tripropellants.  UF bipropellants  UF bipropellants  tripropellants  rocket propellants  liquid rocket propellants  liquid rocket propellants  cryogenic rocket propellants  hypergolic rocket propellants  hypergolic rocket propellants  RP-1 rocket propellants  slurry propellants  slurry propellants  arozine  RT aircraft fuels  chemical compatibility
liquid ox USE liquid p DEF crystal g	. oxygen . liquid oxygen liquids . cryogenic fluids . liquid oxygen liquefied gases . liquid oxygen oxidizers . liquid oxygen cryogenic rocket propellants FLOX oxygen-hydrocarbon rocket engines rocket oxidizers  xygen hydrocarbon rocket engines oxygen-hydrocarbon rocket engines oxygen-hydrocarbon rocket engines  hase epitaxy A liquid phase transformation during growth.	hydrazine engines hydrogen oxygen engines J-2 engine M-1 engine RL-10-A-1 engine RL-10-A-3 engine liquid air cycle engines LR-62-RM-2 engine LR-87-AJ-5 engine LR-91-AJ-5 engine MA-2 engine MA-3 engine MA-10-40 engine MA-10-40 engine MA-10 engine MA-10 engine RL-10-A-1 engine RL-10-A-1 engine RL-10-A-3 engine pulse detonation engines pulse detonation engines Space Shuttle Main Engine	ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also applicable as a monopropellant), and nitric acid; additives such as water; and monopropellants such as nitromethane. Used for bipropellants and tripropellants.  UF bipropellants  tripropellants  rocket propellants  liquid rocket propellants  cryogenic rocket propellants  pelled rocket propellants  hypergolic rocket propellants  hypergolic rocket propellants  RP-1 rocket propellants  slurry propellants  slurry propellants  slurry propellants  slurry propellants  slurry propellants  slurry propellants  clarrozine  RT aircraft fuels  chemical compatibility  chlorine fluorides
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liquid pour Crystal G GS RT liquid p (addd DEF der agg phase i cycle. GS	. oxygen . liquid oxygen liquids . cryogenic fluids . liquid oxygen liquefied gases . liquid oxygen oxidizers . liquid oxygen cryogenic rocket propellants FLOX oxygen-hydrocarbon rocket engines rocket oxidizers  dygen hydrocarbon rocket engines oxygen-hydrocarbon rocket engines oxygen-hydrocarbon rocket engines  hase epitaxy A liquid phase transformation during growth . crystal growth . epitaxy . liquid phase epitaxy crystal structure liquid phases vapor phase epitaxy  hase sintering ad August 1991) Sintering of a compact, or loose pow- regate under conditions where a liquid s present during part of the sintering sintering . liquid phase sintering consolidation metal powder	hydrazine engines hydrogen oxygen engines J-2 engine M-1 engine RL-10-A-1 engine RL-10-A-3 engine liquid air cycle engines LR-62-RM-2 engine LR-87-AJ-5 engine LR-91-AJ-5 engine MA-2 engine MA-5 engine MA-5 engine MA-5 engine oxygen-hydrocarbon rocket engines RL-10 engines RL-10-A-3 engine PL-10-A-3 engine pulse detonation engines RL-10-A-1 engine PL-10-A-3 engine yLR-91-AJ-1 engine X-405 engine X-405 engine YLR-91-AJ-1 engine RT Ablestar launch vehicle Black Knight rocket vehicle Blue Streak launch vehicle Blue Streak launch vehicle Blue Streak missile BOMARC A missile BOMARC B missile booster rocket engines Centaur launch vehicle Corporal missile Corvus missile Corvus missile Delta 4 Heavy launch vehicle Delta Clipper Diamant launch vehicle Dornier paraglider rocket vehicle	ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also applicable as a monopropellant), and nitric acid; additives such as water; and monopropellants such as nitromethane. Used for bipropellants and tripropellants.  UF bipropellants tripropellants : rocket propellants : rocket propellants : liquid rocket propellants : gelled rocket propellants : gelled rocket propellants : monopropellants : hypergolic rocket propellants : monopropellants : slurry propellants : hydrogen : aerozine  RT aircraft fuels chemical compatibility chlorine fluorides fuel tank pressurization gaseous rocket propellants high energy propellants hydrazines hydrogen fuels liquefied gases liquid fuels liquids monomethylhydrazines nitrogen tetroxide propellant sprays solid rocket propellants storable propellants
liquid pour Crystal G GS RT liquid p (addd DEF der agg phase i cycle. GS	. oxygen . liquid oxygen liquids . cryogenic fluids . liquid oxygen . liquid oxygen . liquid oxygen . liquid oxygen oxidizers . liquid oxygen cryogenic rocket propellants FLOX oxygen-hydrocarbon rocket engines rocket oxidizers  xygen hydrocarbon rocket engines oxygen-hydrocarbon rocket engines  hase epitaxy A liquid phase transformation during yrowth. growth . crystal growth . epitaxy . liquid phase epitaxy crystal structure liquid phases vapor phase epitaxy hase sintering ad August 1991) Sintering of a compact, or loose pow- regate under conditions where a liquid s present during part of the sintering . liquid phase sintering consolidation	hydrazine engines hydrogen oxygen engines J-2 engine M-1 engine RL-10-A-1 engine RL-10-A-3 engine liquid air cycle engines LR-62-RM-2 engine LR-87-AJ-5 engine LR-91-AJ-5 engine MA-2 engine MA-3 engine MA-3 engine MA-1 engine MA-3 engine MA-3 engine MA-3 engine MA-3 engine NE-10 engines RL-10-A-1 engine RL-10-A-3 engine pulse detonation engines RL-10-A-1 engine Pulse detonation engines Space Shuttle Main Engine X-405 engine X-405 engine XLR-99 engine YLR-91-AJ-1 engine RT Ablestar launch vehicle Blue Streak launch vehicle Blue Streak launch vehicle Blue Streak missile BOMARC A missile BOMARC B missile BOMARC B missile booster rocket engines Centaur launch vehicle Corporal missile Delta 4 Heavy launch vehicle Delta Clipper Diamant launch vehicle Dornier paraglider rocket vehicle ducted rocket engines	ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also applicable as a monopropellant), and nitric acid; additives such as water; and monopropellants such as nitromethane. Used for bipropellants and tripropellants.  UF bipropellants tripropellants : rocket propellants : rocket propellants : liquid rocket propellants : cryogenic rocket propellants : gelled rocket propellants : hypergolic rocket propellants : monopropellants : slurry propellants : hydrogen : aerozine RT aircraft fuels chemical compatibility chlorine fluorides fuel tank pressurization gaseous rocket propellants hybrid propellants hybrid propellants hydrogen fuels liquefied gases liquid fuels liquids monomethylhydrazines nitrogen tetroxide propellant sprays solid rocket propellants storable propellants  liquid rotation USE rotating liquids
liquid pour Crystal G GS RT liquid p (addd DEF der agg phase i cycle. GS	. liquid oxygen liquids . liquid oxygen liquids . liquid oxygen liquefied gases . liquid oxygen oxidizers liquid oxygen cryogenic rocket propellants FLOX oxygen-hydrocarbon rocket engines rocket oxidizers  aygen hydrocarbon rocket engines oxygen-hydrocarbon rocket engines  hase epitaxy A liquid phase transformation during growth crystal growth epitaxy . liquid phase epitaxy crystal structure liquid phases vapor phase epitaxy  hase sintering ad August 1991) Sintering of a compact, or loose pow- regate under conditions where a liquid s present during part of the sintering sintering liquid phase sintering consolidation metal powder powder metallurgy	hydrazine engines hydrogen oxygen engines J-2 engine M-1 engine RL-10-A-1 engine RL-10-A-3 engine liquid air cycle engines LR-62-RM-2 engine LR-87-AJ-5 engine LR-91-AJ-5 engine MA-2 engine MA-5 engine MA-5 engine MA-5 engine oxygen-hydrocarbon rocket engines RL-10 engines RL-10-A-3 engine PL-10-A-3 engine pulse detonation engines RL-10-A-1 engine PL-10-A-3 engine yLR-91-AJ-1 engine X-405 engine X-405 engine YLR-91-AJ-1 engine RT Ablestar launch vehicle Black Knight rocket vehicle Blue Streak launch vehicle Blue Streak launch vehicle Blue Streak missile BOMARC A missile BOMARC B missile booster rocket engines Centaur launch vehicle Corporal missile Corvus missile Corvus missile Delta 4 Heavy launch vehicle Delta Clipper Diamant launch vehicle Dornier paraglider rocket vehicle	ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also applicable as a monopropellant), and nitric acid; additives such as water; and monopropellants such as nitromethane. Used for bipropellants and tripropellants.  UF bipropellants  : rocket propellants : rocket propellants : liquid rocket propellants : cryogenic rocket propellants : hypergolic rocket propellants : hypergolic rocket propellants : hypergolic rocket propellants : hypergolic rocket propellants : slurry propellants : hydrogen : aerozine  RT aircraft fuels chemical compatibility chlorine fluorides fuel tank pressurization gaseous rocket propellants hybrid propellants hybrid propellants hybrid propellants hydrogen fuels liquid fuels liquids monomethylhydrazines nitrogen tetroxide propellant sprays solid rocket propellants storable propellants
liquid pour USE  liquid pour Crystal of GS  RT  liquid pour Cadde DEF der agg phase i cycle. GS  RT	. liquid oxygen liquids . liquid oxygen liquids . liquid oxygen liquefied gases . liquid oxygen oxidizers liquid oxygen cryogenic rocket propellants FLOX oxygen-hydrocarbon rocket engines rocket oxidizers  aygen hydrocarbon rocket engines oxygen-hydrocarbon rocket engines  hase epitaxy A liquid phase transformation during growth crystal growth epitaxy . liquid phase epitaxy crystal structure liquid phases vapor phase epitaxy  hase sintering ad August 1991) Sintering of a compact, or loose pow- regate under conditions where a liquid s present during part of the sintering sintering liquid phase sintering consolidation metal powder powder metallurgy	hydrazine engines hydrogen oxygen engines J-2 engine M-1 engine RL-10-A-1 engine RL-10-A-3 engine liquid air cycle engines LR-62-RM-2 engine LR-87-AJ-5 engine LR-91-AJ-5 engine MA-2 engine MA-3 engine MA-2 engine MA-3 engine MA-1 engine MA-3 engine MA-3 engine MA-5 engine oxygen-hydrocarbon rocket engines RL-10 engines RL-10-A-1 engine RL-10-A-1 engine x-405 engine yace Shuttle Main Engine X-405 engine XLR-99 engine XLR-99 engine YLR-91-AJ-1 engine RT Ablestar launch vehicle Blue Steel missile Blue Streak launch vehicle Blue Streak missile Blue Streak nissile BOMARC A missile BOMARC B missile BOMARC B missile booster rocket engines Centaur launch vehicle Corporal missile Corvus missile Delta 4 Heavy launch vehicle Delta Clipper Diamant launch vehicle Dornier paraglider rocket vehicle ducted rocket engines hybrid propellant rocket engines	ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also applicable as a monopropellant), and nitric acid; additives such as water; and monopropellants such as nitromethane. Used for bipropellants and tripropellants.  UF bipropellants tripropellants irpropellants irrogen fuels irpuid fuels irrogen tetroxide irropellants irrope
liquid p DEF crystal g GS  RT  liquid p (added DEF der agg phase i cycle. GS RT	. liquid oxygen   cryogenic rocket propellants   FLOX   oxygen-hydrocarbon rocket engines   rocket oxidizers   sygen hydrocarbon rocket engines   oxygen-hydrocarbon rocket engines   oxygen-h	hydrazine engines hydrogen oxygen engines J-2 engine M-1 engine RL-10-A-1 engine RL-10-A-3 engine liquid air cycle engines LR-62-RM-2 engine LR-87-AJ-5 engine LR-91-AJ-5 engine MA-2 engine MA-3 engine MA-3 engine MA-5 engine MA-1 engine MA-3 engine MA-3 engine MA-3 engine MA-3 engine NE-10 engines RL-10-A-3 engine RL-10-A-3 engine pulse detonation engines RL-10-A-1 engine X-405 engine X-405 engine X-405 engine XLR-99 engine YLR-91-AJ-1 engine Atlas SLV-3 launch vehicle Black Knight rocket vehicle Blue Streak launch vehicle Blue Streak missile BOMARC A missile BOMARC A missile BOMARC B missile booster rocket engines Centaur launch vehicle Corporal missile Corvus missile Delta 4 Heavy launch vehicle Delta Clipper Diamant launch vehicle Dornier paraglider rocket vehicle ducted rocket engines hybrid propellant rocket engines hybrid rocket engines	ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also applicable as a monopropellant), and nitric acid; additives such as water; and monopropellants such as nitromethane. Used for bipropellants and tripropellants.  UF bipropellants tripropellants . rocket propellants . rocket propellants . liquid rocket propellants . royogenic rocket propellants . gelled rocket propellants . hypergolic rocket propellants . monopropellants . slurry propellants . hydrogen . aerozine RT aircraft fuels chemical compatibility chlorine fluorides fuel tank pressurization gaseous rocket propellants hybrid propellants hybrid propellants hybrid propellants hydrazines hydrogen fuels liquid gases liquid fuels liquids monomethylhydrazines nitrogen tetroxide propellant sprays solid rocket propellants storable propellants  liquid rotation USE rotating liquids  liquid sloshing  DEF The back and forth movement of a liquid fuel in its tank, creating problems of stability and control in the vehicle. Used for slosh-
liquid p DEF crystal g GS  RT  liquid p (added DEF der agg phase i cycle. GS RT	. liquid oxygen   cryogenic rocket propellants   FLOX   oxygen-hydrocarbon rocket engines   rocket oxidizers   sygen hydrocarbon rocket engines   oxygen-hydrocarbon rocket engines   oxygen-h	hydrazine engines hydrogen oxygen engines J-2 engine M-1 engine RL-10-A-1 engine RL-10-A-3 engine liquid air cycle engines LR-62-RM-2 engine LR-87-AJ-5 engine LR-91-AJ-5 engine MA-2 engine MA-2 engine MA-3 engine MA-5 engine MA-5 engine oxygen-hydrocarbon rocket engines RL-10 engines RL-10-A-1 engine RL-10-A-3 engine pulse detonation engines Space Shuttle Main Engine X-405 engine X-405 engine XLR-99 engine YLR-91-AJ-1 engine RT Ablestar launch vehicle Blue Streak missile BOMARC A missile BOMARC B missile BOMARC B missile booster rocket engines Centaur launch vehicle Corporal missile Corvus missile Corvus missile Delta 4 Heavy launch vehicle Delta Clipper Diamant launch vehicle Dornier paraglider rocket vehicle ducted rocket engines hybrid propellant rocket engines	ammonia, and liquid hydrogen; oxidants such as liquid oxygen, hydrogen peroxide (also applicable as a monopropellant), and nitric acid; additives such as water; and monopropellants such as nitromethane. Used for bipropellants and tripropellants.  UF bipropellants  irpropellants  rocket propellants  liquid rocket propellants  liquid seemical edges liquids  seemical compatibility chlorine fluorides fuel tank pressurization gaseous rocket propellants hybrid propellants hybrid propellants hydrogen fuels liquids monomethylhydrazines hydrogen tetroxide propellants hybrid propellants hybrid propellants hybrid propellants hybrid propellants hydrazines hydrogen fuels liquid fuels liquids monomethylhydrazines nitrogen tetroxide propellants storable propellants  liquid rotation  USE rotating liquids  liquid sloshing  DEF The back and forth movement of a liquid fuel in its tank, creating problems of sta-

UF	sloshing	solubility	thermodynamic equilibrium
RT	aerodynamic stability	liquido	vapors
	aircraft stability	liquids DEF Substances in a state in which the	liquid-vapor interfaces
	baffles	individual particles move freely with relation to	GS boundaries
	controllability fuel control	each other and take the shape of the container,	. fluid boundaries
	fuel tanks	but do not expand to fill the container.	. liquid-vapor interfaces
	interface stability	GS liquids	interfaces
	propellant tanks	. cryogenic fluids	. fluid boundaries
	propellant transfer	Fermi liquids	liquid-vapor interfaces
	rotating fluids	FLOX	RT air water interactions
	spacecraft stability	liquid helium	evaporation
	storage stability	liquid helium 2	free boundaries
	tank geometry	liquid hydrogen	heat transfer
	ullage	liquid nitrogen liquid oxygen	interface stability
		. ferrofluids	menisci pressure gradients
liquid s		. hydraulic fluids	solubility
GS	chemical elements	Skydrol (trademark)	vapor phases
	. alkali metals sodium	. juices	vapor pressure
	liquid sodium	. liquefied gases	
	liquids	liquefied natural gas	LIRTS (telescope)
	. liquid metals	liquid air	DEF A proposed large infrared telescope fo
	liquid sodium	liquid ammonia	Spacelab superseded by the German infrared
	metals	liquid fluorine	laboratory. Used for Large Infrared Telescope or
	. alkali metals	liquid helium liquid helium 2	Spacelab.  UF Large Infrared Telescope on
	sodium	liquid helidin 2 liquid hydrogen	Spacelab
	liquid sodium	liquid neon	GS telescopes
	liquid metals	liquid nitrogen	. spaceborne telescopes
	liquid sodium	liquid oxygen	LIRTS (telescope)
		. liquid metals	RT European Space Agency
	surfaces	liquid lithium	payloads
GS	liquid surfaces	liquid potassium	space shuttles
РΤ	. menisci	liquid sodium	Spacelab
RT	fluid boundaries free boundaries	mercury (metal)	LIOA (discounts a)
	interfacial tension	mercury isotopes	LISA (observatory)
	jet boundaries	mercury vapor	(added December 2000) UF Laser Interferometer Space Antenna
	solid surfaces	. liquid oxidizers	UF Laser Interferometer Space Antenna GS antennas
	surface waves	. organic liquids . potable liquids	gravitational wave antennas
0	∘ surfaces	beverages	. LISA (observatory)
		wines	artificial satellites
liquid v	vastes	potable water	. scientific satellites
	The liquid counterpart of solid wastes	. rotating liquids	astronomical satellites
	lustrial, chemical, metabolic, and/or min-	RT ∞ fluids	LISA (observatory)
eral sou	irces.	globules	observatories
GS	wastes	glycerols	. astronomical observatories
	liquid wastes	liquid fuels	astronomical satellites
	urine	liquid phases	LISA (observatory)
РΤ	waste water	liquid rocket propellants	RT astronomical interferometry gravitational waves
RT	drainage effluents	nonpoint sources phase diagrams	laser interferometry
	human wastes	vapor phases	spaceborne astronomy
	industrial wastes	water	spassonie actionity
	metabolic wastes		LISP (programming language)
	ponds	liquid-solid interfaces	GS languages
	sewage	GS boundaries	. programming languages
	sludge	. fluid boundaries	LISP (programming language)
	solid wastes	. liquid-solid interfaces	RT computer programming
		interfaces	recursive functions
liquid-g	jas mixtures	. fluid boundaries	Lippoious figures
GS	mixtures	<b>liquid-solid interfaces</b> 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 o
ОТ	fog	heat transfer	their frequencies is a rational number.
RT	air water interactions	interface stability	RT eccentric orbits
	binary mixtures qas mixtures	liquid bridges	equations of motion
	menisci	melting	libration
	solubility	menisci	lunar orbits
	vapor phases	metal surfaces	satellite orbits
	vapor pressure	phase change materials	lists
		solid phases	GS lists
liquid-li	iquid interfaces	solid-solid interfaces	. hardware utilization lists
GS	boundaries	squeeze films	RT ∞ catalogs
0.0	. fluid boundaries	liquidus	display devices
	liquid-liquid interfaces	RT crystallization	enumeration
	interfaces	liquid phases	indexes (documentation)
	. fluid boundaries	melting points	printouts
	liquid-liquid interfaces	phase diagrams	
RT	boundary layers	solid phases	literature
	free boundaries	solid solutions	GS literature
	heat transfer	solidus	. biography
	interface stability	limited transport and the state of	. documentation
	interfacial energy	liquid-vapor equilibrium	RT bibliographies
	interfacial tension	UF vapor liquid equilibrium	documents
	pressure gradients	RT ∞ equilibrium	indexes (documentation)

knowledge libraries papers philosophy

lithergol rocket engines

engines

. rocket engines

. hybrid propellant rocket engines

lithergol rocket engines

RT ∞ hybrid rocket engines

lithergolic propellants

hybrid propellants

lithiasis

diseases GS

. lithiasis

RT calculi

dental calculi

lithium

GS chemical elements

. alkali metals

. . lithium

. . . liquid lithium

. . . lithium isotopes

metals

. alkali metals

. . lithium

. . . liquid lithium

... lithium isotopes

lithium 4

USE lithium isotopes

lithium 6

USE lithium isotopes

lithium alloys

GS

. lithium alloys

. aluminum-lithium alloys aircraft construction materials

aluminum alloys copper alloys

magnesium alloys zirconium alloys

lithium aluminum hydrides

aluminum compounds

lithium aluminum hydrides

hydrogen compounds

. hydrides

. . metal hydrides

. . . lithium hydrides

. . lithium aluminum hydrides

lithium compounds

. lithium hydrides

. lithium aluminum hydrides

RT powdered aluminum

lithium batteries

(added December 1999)

electrochemical cells

electric batteries

... lithium batteries

. lithium sulfur batteries

RT storage batteries

lithium borates

boron compounds GS

. 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

 $RT \mathrel{<\!\!\!>} alkali \ metal \ compounds$ 

∞ 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

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

hydrogen compounds

. hydrides

. . metal hydrides

... lithium hydrides . lithium aluminum hydrides

lithium compounds

. lithium hydrides

. . lithium aluminum hydrides

lithium hydroxides

bases (chemical)

alkalies

. lithium hydroxides

hydroxides

lithium hydroxides lithium compounds lithium hydroxides

lithium iodates

Salts of iodic acid containing the 10 to

the third power radical.

halogen compounds . iodine compounds

. . iodates

. lithium iodates

lithium compounds lithium iodates

 $RT \propto metal\ compounds$ 

lithium isotopes

lithium 4

lithium 6

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

GS halogen compounds

. chlorine compounds

. . perchlorates

lithium perchlorates lithium compounds

lithium perchlorates

lithium sulfates

GS lithium compounds

lithium sulfates

sulfur compounds

. sulfates . . lithium sulfates

lithium sulfur batteries

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.

UF stereolithography
ultraviolet lithography

GS

printing lithography

. photolithography nanofabrication

photomechanical effect

reproduction (copying)

Description of the physical character of rocks as determined by eye or with a low-power magnifier and based on color, structure, miner-

alogic components, and grain size. GS geology

. petrology . lithology

RT regolith rocks

lithosphere The solid portion of the Earth, as com-DEF pared to atmosphere and hydrosphere.

UF

geosphere lithosphere GS

. Earth core . Earth crust

Earth mantle . Earth surface

asthenosphere Earth planetary structure planetary mantles plates (tectonics)

subduction (geology)

Lithuania

RT

nations

Lithuania

538

RT	Europe		x ray imagery		payloads
l ittle l	oe 2 launch vehicle	lizards			refilling replenishment
GS	launch vehicles	GS	animals		shafts (machine elements)
ao	. Little Joe 2 launch vehicle		. vertebrates		sweep effect
	rocket vehicles		reptiles		variable amplitude loading
	. multistage rocket vehicles		lizards		
	Little Joe 2 launch vehicle			loading	
RT	Algol engine		Orientales (Colombia)	USE	loads (forces)
	Mercury project	GS	land		
	sergeant missiles		. grasslands		moments
	solid propellant rocket engines		. Llanos Orientales (Colombia) . plains	GS	moments . loading moments
	TX-354 engine		Llanos Orientales (Colombia)	RT	aerodynamic loads
	XM-33 engine		landforms		bending moments
l ittle l	ohn rocket vehicle		. plains		flexing
GS	rocket vehicles		Llanos Orientales (Colombia)		loads (forces)
ao	. single stage rocket vehicles	RT	Colombia		mass distribution
	. Little John rocket vehicle				moment distribution
	. surface to surface rockets	LLR (ra			pressure distribution
	Little John rocket vehicle		ed July 2001) laser ranging		static loads
RT	Hercules engine	USL	lunar rangefinding		structural analysis torque
	solid propellant rocket engines		iana rangomang		transverse loads
		LMCR (	reactors)		transverse leads
	currents	USE	liquid metal cooled reactors	loading	operations
USE	coastal currents				feeders
itta val	-1	LMFBR		~	loading
littoral DEF		USE	liquid metal fast breeder reactors		materials handling
	nd shell fragments) that is moved along	LNG		~	operations
	re by coastal currents.	USE	liquefied natural gas		unloading
	bars (landforms)	OOL	ilquelleu liaturai gas	loading	rate
	beaches	load ca	rrying capacity	GS	rates (per time)
	breakwaters	(adde	ed August 1991)	0.0	. loading rate
	coasts	SN	(LIMITED TO STRUCTURAL MECHANICS)	RT	impact loads
	ocean currents	DEF	The capacity of a structure to bear		load tests
	sands	loads.			loads (forces)
	sediments	GS	mechanical properties . yield strength		strain rate
			load carrying capacity		variable amplitude loading
	transport breakwaters	RT	compressive strength		velocity
п	ocean currents		creep strength	loading	Wayes
	sands		critical loading		elastic waves
	water waves		fracture strength		loads (forces)
0	∞ waves		loads (forces)		,
		0	strength	loads (f	
liver			structural failure	UF	load factors
GS	anatomy		structural stability structural strain		loading forces
	. liver		tensile strength	00	loading waves
RT	gastrointestinal system		terione offerigin	GS	loads (forces) . axial loads
	glands (anatomy)	load dis	stribution (forces)		axial compression loads
	hepatitis tyrosine	GS	distribution (property)		. compression loads
	tyrosine		. load distribution (forces)		axial compression loads
Liverm	ore Pool Type Reactor		distribution		impact loads
UF	LPTR Reactor		transverse loads		. contact loads
GS	nuclear reactors	load fac	tora		impact loads
	. nuclear research and test reactors	USE	loads (forces)		rolling contact loads
	Livermore Pool Type Reactor	002	10440 (101000)		. critical loading
		load tes	sting machines		. dynamic loads aerodynamic loads
liverwoi	rts	RT ∘	machinery		blast loads
USE	Bryophytes	۰	test equipment		gust loads
					cyclic loads
livesto		load tes	compression tests		rolling contact loads
GS	animals	nı.	creep tests		thrust loads
RT	. livestock calves		destructive tests		transient loads
ΠI	cattle		fatigue tests		gust loads
	deer		impact tests		impact loads landing loads
	goats		loading rate		shock loads
	horses		nondestructive tests		blast loads
	rangelands		shock tests		variable amplitude loading
	sheep		specimen geometry		vibratory loads
	swine		spin tests		wing loading
	turkeys		static tests tensile tests		. edge loading
			terisile tests		. random loads
lixiscop			variable amplitude loading		gust loads
DEF low inte	Portable light weight battery operated ensity x ray imaging systems with medi-		,		. static loads . transverse loads
	ustrial, and scientific applications. Used	∞ loading	I	RT	
	Intensity X Ray Imaging Scopes.	SN	(USE OF A MORE SPECIFIC TERM IS		equilibrium
UF	Low Intensity X Ray Imaging Scopes		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		o force
GS	medical equipment	UF	dummy loads		force distribution
	. x ray apparatus	RT	feeding (supplying)		Hugoniot equation of state
_	lixiscopes		filling		load carrying capacity
RT	portable equipment		input	~	loading
	radiography		loading operations		loading moments
	x ray astronomy		loads (forces)		loading rate

RT

mass distribution locks (fasteners) ∞ systems mechanics (physics) locks (fasteners) moment distribution location payloads USE position (location) GS fasteners plane stress locks (fasteners) Location of Air Traffic Satellites locking pressure USE LOCATES system pressure distribution ∞ locks pressure effects locomotion shafts (machine elements) loci motility UF GS geometry shearing GS locomotion stress concentration . Euclidean geometry . astronaut locomotion . . analytic geometry stress intensity factors gait . . loci stresses . running RT ∞ centers structural design criteria . walking exercise physiology navigation weight (mass) conics foci wind pressure line of sight propulsion points (mathematics) (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) antenna design resolution wheelchairs locomotives Lockheed 186 helicopter
USE XH-51 helicopter diesel engines RT antenna radiation patterns handling equipment rail transportation backlobes Lockheed aircraft sidelobes windshields GS Lockheed aircraft . C-5 aircraft local area networks locusts C-121 aircraft Networks, generally microcomputer GS animals . C-130 aircraft based, that enable users in the same location to . invertebrates C-140 aircraft use the same programs and equipment such as . . arthropods C-141 aircraft printers. Used for LAN (computer networks). . . . insects CL-823 aircraft LAN (computer networks) ... locusts Electra aircraft GS networks RT farm crops F-94 aircraft . communication networks foliage infestation F-104 aircraft . . local area networks . L-1011 aircraft . computer networks vegetation . L-2000 aircraft local area networks . Lockheed model 18 aircraft architecture (computers) LOFAR P-3 aircraft carrier sense multiple access sonar S-3 aircraft data transmission underwater acoustics . SR-71 aircraft Ethernet . T-33 aircraft interprocessor communication LOFTI satellites U-2 aircraft network control USE low frequency transionospheric X-35 aircraft protocol (computers) satellites XH-51 helicopter VSAT (network) XV-4 aircraft lofting wide area networks RT ∞ aircraft aircraft design local group (astronomy) ascent trajectories Lockheed C-5 aircraft The cluster of galaxies to which our computer aided design USE C-5 aircraft galaxy belongs. It is a poor, irregular cluster with some 20 certain members including the Milky differential geometry engineering drawings Lockheed CL-595 helicopter Way Galaxy, the Andromeda Galaxy, the Triangulum, four irregular galaxies, and about 13 mathematical models USE XH-51 helicopter spacecraft design intermediate or dwarf ellipticals. structural design Lockheed CL-823 aircraft GS celestial bodies ∞ surface geometry USE CL-823 aircraft . galactic clusters templates . local group (astronomy) Lockheed Constellation aircraft Andromeda Galaxy barred galaxies log periodic antennas USE C-121 aircraft GS antennas cosmology . directional antennas Lockheed L-2000 aircraft disk galaxies . log periodic antennas USE L-2000 aircraft dwarf galaxies antenna arrays elliptical galaxies antenna design Lockheed model 18 aircraft Milky Way Galaxy broadband GS Lockheed aircraft solar neighborhood dipole antennas Lockheed model 18 aircraft spiral galaxies frequency response monoplanes Virgo galactic cluster parasitic elements (antennas) Lockheed model 18 aircraft transport aircraft local scientific survey module log spiral antennas Lockheed model 18 aircraft modules GS antennas RT ∞ aircraft local scientific survey module . spiral antennas instrument packages . log spiral antennas Lockheed U-2 aircraft lunar exploration dipole antennas USE U-2 aircraft measuring instruments logarithmic receivers Lockheed XV-4A aircraft local thermodynamic equilibrium receivers GS USE XV-4 aircraft (added April 1991) . logarithmic receivers LTE (astronomy) communication equipment frequency response locking stellar atmospheres UF interlocking intermediate frequency amplifiers stellar physics GS locking thermodynamic equilibrium transfer functions laser mode locking fasteners logarithms localization ∞ joining USE position (location) The power to which a fixed number, locks (fasteners) called the base, usually 10 or e (2. 7182818) retaining LOCATES system must be raised to produce the value to which the Location of Air Traffic Satellites logarithm corresponds. ∞ locks air traffic control GS analysis (mathematics)

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

SN

RT

air locks

. complex variables
. . exponential functions

... logarithms

GS

RT

RT

Beacon satellites

navigation satellites satellite guidance

	functions (mathematics) . transcendental functions exponential functions	RT	. logic programming artificial intelligence expert systems	RT	Lomonosov current Atlantic Ocean Gulf Stream
RT	logarithms exponents		logic design temporal logic		tropical regions
					Ouration Exposure Facility
	(industry) The business of felling trees, cutting	logic ur USE	กเร arithmetic and logic units	GS GS	LDEF artificial satellites
them up	into logs and transporting the logs to		-		. scientific satellites
	or to a place of sale. forests		elements In computers or data processing sys-		Long Duration Exposure Facility laboratories
nı	trees (plants)		ne smallest building blocks which can be		. space laboratories
logio			ented by operators in an appropriate sys-		Long Duration Exposure Facility
logic SN	(USE OF A MORE SPECIFIC TERM IS		symbolic logic. Typical logical elements AND gate and flip-flop, which can be		space platforms . Long Duration Exposure Facility
	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		ented as operators in a suitable symbolic	RT	space weathering
RT	artificial intelligence	logic. U UF	lsed for decision elements.		spaceborne experiments
	axioms Boolean algebra	RT	decision elements computer components	long di	uration space flight
	branching (mathematics)		digital electronics	DEF	Space flight involving interplanetary
	complements (mathematics)	•	∞ elements gates (circuits)		nterstellar travel. Used for extended du- pace flight.
	expert systems fluid logic		logic circuits	UF	
	fluidics		logic design	GS	space flight
	formalism	logistic	es	RT	. long duration space flight Crew Exploration Vehicle
	Information theory logic circuits	GS	logistics		deep space
	logic design		. lunar logistics		extraterrestrial environments
	mathematical logic paradoxes	RT	. space logistics aircraft maintenance	c	∞ flight flyby missions
	philosophy		Army-Navy instrumentation program		interplanetary flight
	predicate calculus		command and control cranes		interstellar travel manned Mars missions
~	predicate logic principles		deployment		manned space flight
~	temporal logic		downtime		Mars bases
	threshold logic	•	∞ electric equipment energy policy	c	∞ missions planetary environments
	transistor logic		∞ facilities		space adaptation syndrome
logic ci			inventory management		aloud (ADV)
UF GS	logic networks circuits		maintenance matrix management		sland (NY) landforms
ao	. logic circuits		portable equipment		. islands
DT	threshold gates		rapid transit systems resource allocation	DT	Long Island (NY) Atlantic Ocean
RT	adding circuits architecture (computers)		resources	nı	New York
	arithmetic and logic units		services		
	central processing units		shipyards site selection		larch launch vehicles led January 1999)
	computers counting circuits		stockpiling		launch vehicles
	decisions		storage	DT	Long March launch vehicles
	digital computers evolvable hardware		stowage (onboard equipment) transportation	RT	Chinese space program Chinese spacecraft
	fluid logic		∞ travel		heavy lift launch vehicles
	gates (circuits)		utilities		Shenzhou 5 spacecraft
∞	logic logical elements	logistic	es management	long pe	riod variables
	matrices (circuits)	GS	management	USE	Mira variables
	multipliers		. logistics management inventory management	long rai	nge navigation
	multivibrators neural nets		inventory controls		loran
	programmable logic devices	RT «	∞ facilities	long ra	nge weather forecasting
~	reconfigurable hardware relay		maintenance resources	-	meteorology
	switching circuits		services		. weather forecasting
	threshold logic	,	spare parts ∞ storage		long range weather forecasting predictions
	transistor circuits transistor logic		sicrago		. forecasting
			cs over the shore (LOTS) carrier		weather forecasting long range weather forecasting
logic de RT	esign amplifier design	RT	military technology	RT	Atmospheric General Circulation
	architecture (computers)		elicopter		Models
	computer aided design	USE	OH-6 helicopter		numerical weather forecasting statistical weather forecasting
	computer design computer programming	Loki ro	cket vehicle		statistical weather forecasting
~	design	GS	rocket vehicles		rm effects
	design analysis evolvable hardware		. single stage rocket vehicles Loki rocket vehicle	UF RT	secular perturbation celestial mechanics
	hardware description languages		. sounding rockets		climate
~	logic	RT	Loki rocket vehicle solid propellant rocket engines		closed ecological systems cycles
	logic programming logical elements	пі	WASP sounding rocket		durability
	programmable logic devices		-	c	∞ effects
	switching theory	LOLA ( USE	simulator) Iunar orbit and landing simulators		life (durability) life support systems
	transistor logic		_		orbit perturbation
logic ne			osov current	c	∞ performance
USE	logic circuits	GS	circulation . water circulation		periodic variations perturbation
	ogramming		water currents		storage stability
GS	computer programming		ocean currents		time temperature parameter

long wave radiation weather hovering stability RT compensators lateral stability control stability Long Term Zonal Earth Energy Experiment pitch (inclination) control systems design USE LZEEBE satellite pitching moments control theory POGO effects error signals long wave radiation rotary stability feedback control ĞS electromagnetic radiation spacecraft stability loop transfer functions . radio waves ∞ recovery . long wave radiation longitudinal waves systems stability far infrared radiation DEF Waves in which the direction of dismonochromatic radiation placement at each point of the medium is normal loops ∞ radiation to the wave front. ĠS loops short wave radiation GS longitudinal waves . corrosion test loops solar radiation . plane waves circuits Surface Meteorology and Solar beams (radiation) closed cycles Energy project dilatational waves loop antennas Surface Radiation Budget project elastic waves toruses electrostatic waves trusses long waves (meteorology) frequencies USE planetary waves normal shock waves LOR (rendezvous) ∞ radiation longerons USE lunar orbital rendezvous seismic waves ŬF astromasts shock waves GS structural members solar radiation LORAC navigation system longerons GS navigation sound waves keels . radio navigation transverse waves reinforcement (structures) . hyperbolic navigation
. LORAC navigation system wave packets ribs (supports) strakes wavelengths RT distance measuring equipment ∞ waves stringers navigation aids structural stability longshore currents navigation instruments USE coastal currents surface navigation systems (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN look angles (electronics) DEF The solid angle in which an instrument operates effectively, generally used to describe radars, optical instruments, and space radiation Ioran life (durability) DEF life span detectors. GS Ionaitude geometry DEF Angular distance, along a primary great circle, from the adopted reference point; the angle between a reference plane through . Euclidean geometry Used for long range navigation. . . angles (geometry) long range navigation . . look angles (electronics) navigation the polar axis and a second plane through that alignment . radio navigation axis. directivity . . hyperbolic navigation longitude GS installing ... loran instrument orientation solar longitude .... loran C optical equipment coordinates ... loran D geodetic coordinates positioning air navigation latitude radar equipment Decca navigation position (location) distance measuring equipment look angles (tracking) navigation aids DEF The elevation and azimuth at which a longitude measurement navigation instruments RT latitude measurement particular satellite is predicted to be found at a polar navigation  ${\color{blue} \infty \, measurement}$ specified time. solar compasses navigation GS geometry surface navigation positioning Euclidean geometry survevs angles (geometry) longitudinal control .. look angles (tracking) Ioran C pitch attitude control azimuth GS attitude control elevation angle navigation . radio navigation longitudinal control field of view . . hyperbolic navigation RT aircraft control . . . loran altitude control loop antennas . . . loran C automatic control DEF Antennas whose configuration is that RT air navigation ∞ control of a loop. If the current in the loop, or in the Decca navigation directional control parallel turns of the loop is essentially uniform helicopter control and the loop circumference is small compared navigation aids lateral control with the wavelength, the radiation pattern apmanual control proximates that of a magnetic dipole. Ioran D missile control GS antennas GS navigation pilot induced oscillation . directional antennas . radio navigation pitch (inclination) . loop antennas . . hyperbolic navigation satellite attitude control aircraft antennas . . . loran satellite control loops . . . loran D monopole antennas RT air navigation longitudinal stability Decca navigation ĞS dynamic characteristics loop transfer functions navigation aids . dynamic stability (added September 1993) . . motion stability functions (mathematics) Lorentz contraction

... attitude stability

. longitudinal stability

stability

. dynamic stability

. . motion stability . . . attitude stability

. . . longitudinal stability

aerodynamic stability

aircraft stability directional stability flow stability

transfer functions

. loop transfer functions

control systems design feedback control

loop transfer recovery

### loop transfer recovery

(added September 1993)

DEF The recovery of the transfer properties of the controller in a feedback control system compensator design.

A two dimensional pulse synchronized radio navigation system to determine hyperbolic lines of position through pulse time differencing from a master compared to two slave stations.

UF Fitzgerald-Lorentz contraction

RT relativity

#### Lorentz force

The force affecting a charged particle due to the motion of the particle in a magnetic field.

RT charged particles ∞ force

magnetic fields

ponderomotive forces

Lorentz force accelerator thrusters

(added April 2001)

USE magnetoplasmadynamic thrusters

#### Lorentz gas

GS gases

. ionized gases

. Lorentz gas

particles

. charged particles

. . ionized gases

.. Lorentz gas gas dynamics kinetic theory

#### Lorentz transformations

functions (mathematics)

Lorentz transformations

RT Dirac equation invariance Mandelstam representation

LORV

USE low observable reentry vehicles

#### Los Alamos Molten Plutonium Reactor

nuclear reactors

- . liquid cooled reactors
- . . liquid metal cooled reactors
- ... 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 RT

commerce damage

depletion eddy currents

energy dissipation

impairment insertion loss

leakage legal liability 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.

dielectrics GS

lossless materials

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

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.

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

nations GS

. United States

. Louisiana

Atchafalaya River Basin (LA)

Gulf of Mexico

Lake Pontchartrain (LA) Mississippi Delta (LA)

#### 

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

RT mobile lounges rooms seats

#### louvers

RT apertures baffles ∞ diffusers ∞ screening shades shielding ∞ shutters slots

vents

#### 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.

elastic waves GS

- . seismic waves
- . . Love waves

RT surface waves

low alloy steels

USE high strength steels

### low altitude

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

diamond wings

GS airfoils

. wings

... low aspect ratio wings

. . . delta wings

. . . trapezoidal wings

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.

alloys GS

. iron alloys

. . steels

. . . carbon steels

... low carbon steels

RT iron

# low concentrations

composition (property)

. concentration (composition)

... low concentrations

RT dilution

# low conductivity

RT electric current electrical resistivity transconductance

#### low cost

GS costs

low cost RT economy

### low currents

electric current GS . low currents

dark current low voltage plasma currents

# low density flow

GS fluid flow

low density flow RT ∞ flow

rarefied gases

molecular flow rarefied gas dynamics

low density gases USE rarefied gases

# low density materials

RT absorbents absorbers (materials) foams granular materials honeycomb cores honeycomb structures light elements ∞ materials

polyurethane foam

porous materials

porous plates

low density research powder metallurgy high Reynolds number technologies laminar flow Low Intensity X Ray Imaging Scopes viscosity low density research GS research USE lixiscopes low density research low speed low latitudes blowdown wind tunnels low velocity USE tropical regions collisionless plasmas GS rates (per time) composite materials . low speed low level turbulence epoxy matrix composites velocity turbulence nonuniform plasmas GS . low speed atmospheric turbulence plasmas (physics) airspeed rarefied gases shock tubes low level turbulence flow velocity RT homogeneous turbulence ground speed shock tunnels landing speed low mass shock wave luminescence subsonic speed USE mass ultrahigh vacuum vacuum apparatus low molecular weights low speed stability molecular properties
. molecular weight GS dynamic characteristics low density wind tunnels . dynamic stability GS test facilities . . low molecular weights diatomic molecules . . motion stability . wind tunnels low speed stability . low density wind tunnels molecules stability hypersonic wind tunnels monatomic molecules . dynamic stability hypervelocity wind tunnels weight (mass) .. motion stability plasma jets .. low speed stability rarefied gas dynamics low noise aerodynamic stability shock tubes preamplifiers aerodynamic stalling shock tunnels signal to noise ratios aircraft stability attitude stability supersonic wind tunnels low observable reentry vehicles controllability LORV dynamic tests low Earth orbital environments GS reentry vehicles flight characteristics USE Earth orbital environments low observable reentry vehicles flow stability RT radar cross sections hovering stability low Earth orbits reentry spacecraft stability (added April 1995) reentry physics Nominally circular Earth orbits of low ∞ vehicles low speed wind tunnels altitude (typically between 100 and 1,000 km.) GS test facilities and short periodicity. low pass filters . wind tunnels UF LEO DEF Wave filters having a single transmis-. . low speed wind tunnels
. . . subsonic wind tunnels
RT blowdown wind tunnels GS orbits sion band extending from zero frequency up to some critical or bounding frequency, not infinite.

RT bandstop filters . Earth orbits . low Earth orbits Earth orbital environments electric filters elliptical orbits electromagnetic wave filters low temperature interplanetary transfer orbits ∞ filters GS temperature parking orbits Gabor filters . low temperature polar orbits microwave filters cryogenic temperature remote sensing optical filters bay ice satellite orbits cooling low pressure cryogenics low frequencies GS pressure freezing (30 TO 300 KHZ) frequencies low pressure frost . high altitude pressure frost damage . radio frequencies altitude tolerance ice formation .. low frequencies cyclogenesis magnetic cooling . . very low frequencies cyclones pressure ice RT ∞ bands depression refrigerating extremely low frequencies high altitude environments high frequencies intermediate frequencies high pressure low temperature brazing hypobaric atmospheres GS welding ultrahigh frequencies troughs . fusion welding very high frequencies vacuum . . gas welding . . . brazing low frequency transionospheric satellites low pressure chambers ... low temperature brazing LOFTI satellites USE vacuum chambers RT soldering GS artificial satellites . communication satellites ∞ low resistance (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) chemical properties low temperature environments . . low frequency transionospheric SN environments satellites . low temperature environments low gravity
USE microgravity cold strength electrical resistance cold weather flow resistance high altitude environments mechanical properties lunar temperature low gravity manufacturing ∞ resistance magnetic cooling manufacturing thermal resistance mountain inhabitants . low gravity manufacturing transconductance thermal environments containerless melts drop towers low Reynolds number

(RN BELOW 2,000) A Reynolds number below the critical

Reynolds number of a sphere.

ratios

dimensionless numbers

.. low Reynolds number

. low Reynolds number direct numerical simulation

. Reynolds number

. Revnolds number

low temperature physics

RT cryochemistry

∞ physics

∞ science solidified gases

cryogenics

Kondo effect

superconductivity

high temperature superconductors

superconducting power transmission

#### 544

fabrication

levitation melting

Marangoni convection

∞ microgravity applications space manufacturing

space processing

liquid bridges

metal foams

microgravity

space tools

YBCO superconductors . . gas turbine engines North America ... jet engines low temperature plasmas lower ionosphere . . . . ramjet engines USE cold plasmas ... low volume ramjet engines GS Earth atmosphere . internal combustion engines . upper atmosphere low temperature tests . . Earth ionosphere . . gas turbine engines environmental tests GS ... lower ionosphere . . . jet engines . low temperature tests . . . . ramjet engines . D region chemical tests RT E region . low volume ramjet engines cold strength . turbine engines LOX (oxygen) USE liquid oxygen cold weather tests . . gas turbine engines cryostats . . . jet engines hardness tests . . . . ramjet engines LOX-hydrocarbon rocket engines lubricant tests ..... low volume ramjet engines USE oxygen-hydrocarbon rocket melting points engines nondestructive tests low weight quality control gravitation RT LOX-hydrogen engines temperature control microgravity USE hydrogen oxygen engines ∞ tests weightlessness thermal expansion LPTR Reactor thermal stability USE Livermore Pool Type Reactor ∞ low wing aircraft (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) low thrust LQG control thrust GS USE linear quadratic Gaussian control . low thrust RT ∞ aircraft . microthrust aircraft configurations LQR RT high thrust Beech 99 aircraft USE linear quadratic regulator jet thrust general aviation aircraft rocket thrust hypersonic aircraft LR circuits variable thrust jet aircraft USE RL circuits light aircraft low thrust propulsion monoplanes LR-62-RM-2 engine propulsion passenger aircraft GS engines . low thrust propulsion .. electromagnetic propulsion ... magnetic sails tailless aircraft . rocket engines . . liquid propellant rocket engines transport aircraft LR-62-RM-2 engine turbofan aircraft . . electrostatic propulsion turboprop aircraft RT Bullpup missiles . ion propulsion . . man operated propulsion systems LR-87-AJ-5 engine .. photonic propulsion lower atmosphere GS engines (ALTITUDE BELOW ABOUT 50 KM)
Generally, and quite loosely, that part . laser propulsion . rocket engines . . plasma propulsion . . booster rocket engines of the atmosphere in which most weather phe-. . solar propulsion . LR-87-AJ-5 engine nomena occur (i.e., the troposphere and lower . . . solar electric propulsion . . liquid propellant 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 RT Titan 1 ICBM Earth atmosphere microthrust . lower atmosphere rocket thrust LR-91-AJ-5 engine . . troposphere space station propulsion GS engines . . tropopause spacecraft propulsion . rocket engines RT biosphere variable thrust . . liquid propellant rocket engines chemosphere . LR-91-AJ-5 engine low turbulence heterosphere RT Titan ICBM GS turbulence homosphere low turbulence Intasat satellite LRC circuits LACATE (experiment) RT steady flow USE RLC circuits low altitude low vacuum mesometeorology LRV (vehicle) (PRESSURES BETWEEN 3. 001 AND 1. 0 SN middle atmosphere USE lunar roving vehicles The condition in a gas filled space at Lower Atmospheric Composition Experiment pressures less than 760 torr corresponding ap-USE LACATE (experiment) proximately to the vapor pressure of water at 25 A communications satellite designed deg. C and to 1 inch of mercury. by European Space Agency member states to meet future communications satellite market GS pressure lower body negative pressure needs such as European broadcast services, vacuum Application and/or measurement of reglobal telecommunications trunk services, and low vacuum duced pressure in the portion of the body below mobile services. Used for European Large Tele-RT high vacuum the iliac crests. Used as a simulator or orthoscomm Satellite. tatic stress or as an indicator of cardiovascular low velocity European Large Telecomm Satellite UF deconditioning in a weightless environment. USE low speed artificial satellites GS GS hemodynamics . communication satellites lower body negative pressure low visibility . . L-Sat pressure visibility GS . ESA satellites . blood pressure L-Sat . low visibility . lower body negative pressure aircraft landing ESA spacecraft acceleration stresses (physiology) all-weather landing systems . ESA satellites artificial gravity hazards I -Sat cardiovascular system haze RT satellite networks fluid shifts (biology) instrument flight rules gravitational effects LSI light transmission head up tilt USE large scale integration orthostatic tolerance low voltage space flight stress potential energy LSS (cosmology) GS stress (physiology) (added May 2002) electric potential tilt-table test low voltage USE large-scale structure of the weightlessness RT low currents universe Lower California (Mexico) low volume ramjet engines LSSM

UF

RT

GS

engines

. air breathing engines

Baia California

Mexico

Lunar Surface Scientific Modules

lunar spacecraft

UF

GS

	lunar landing modulas	liquid boorings	venen lemne	
	. lunar landing modules	liquid bearings	xenon lamps	
	Lunar Module	lubricants	RT ballasts (impedances)	
	LSSM	lubricating oils	bulbs	
	manned spacecraft	lubrication systems	fixtures	
	. Lunar Module	maintenance	∞ flares	
	LSSM	self lubricating materials	∞ globes	
	modules	sliding	illuminating	
	. spacecraft modules	tribology	light (visible radiation)	
	landing modules	0,7	light sources	
	lunar landing modules	lubrication systems	projectors	
	Lunar Module	RT automobiles	visual signals	
	LSSM	cooling systems	vioual digitals	
		internal combustion engine	oc luminonee	
	soft landing spacecraft			-
	. landing modules	lubricants	SN (LIMITED TO EMISSION RATE PER UNI AREA OF VISIBLE RADIATION)	1
	lunar landing modules	lubrication	DEF In photometry, a measure of the intr	in-
	Lunar Module	pumps	sic luminous intensity emitted by a source in	
	LSSM	∞ systems		
	spacecraft components	vapor phase lubrication	given direction; the illuminance produced	
	. spacecraft modules		light from the source upon a unit surface ar	
	. landing modules	lucite (trademark)	oriented normal to the line of sight at a	
	lunar landing modules	USE polymethyl methacrylate	distance from the source, divided by the so	
	Lunar Module		angle subtended by the source at the receivi	ng
	LSSM	Luder bands	surface. Also called brightness but luminance	is (
RT	Apollo project	USE plastic deformation	preferred.	
111	lunar laboratories	yield point	GS pressure	
		yiola politi	. radiation pressure	
0	surfaces	Ludox (trademark)	luminous intensity	
LST		DEF Composite material utiliz	rates (per time)	
USE	Hubble Space Telescope	silica matrixes.		
		GS refractory materials	. flux density	
	tronomy)	. Ludox (trademark)	. radiant flux density	
USE	local thermodynamic equilibrium	RT densification	luminous intensity	
	-	heat shielding	luminance	
LTV aird	eraft	reentry shielding	RT brightness	
USE	Ling-Temco-Vought aircraft	spacecraft construction ma	aterials glare	
	3	thermal protection	illuminance	
lubrica	nt tests	tiles	illuminating	
RT	engine tests		∞ intensity	
111	high temperature tests	lugs	irradiance	
		RT fasteners	light (visible radiation)	
	low temperature tests		lumens	
	materials tests	holders		
0	tests	studs (structural members		
	tribometers	supports	photometry	
	wear resistance		sky brightness	
			solar flux density	
		lumbar region	•	
lubrica	nts	GS anatomy	stellar magnitude	
lubrica: DEF	nts Substances interposed between two		•	
DEF	Substances interposed between two	GS anatomy	•	
DEF surfaces	Substances interposed between two s for the purpose of reducing the friction	GS anatomy . lumbar region	stellar magnitude	ch
DEF surfaces or wear	Substances interposed between two for the purpose of reducing the friction between them.	GS anatomy . lumbar region regions . lumbar region	stellar magnitude    Iuminescence   DEF   Light emission by a process in whi	
DEF surfaces	Substances interposed between two for the purpose of reducing the friction between them.  lubricants	GS anatomy . <b>lumbar region</b> regions . <b>lumbar region</b> RT human body	stellar magnitude <b>luminescence</b> DEF Light emission by a process in whi kinetic heat energy is not essential for t	the
DEF surfaces or wear	Substances interposed between two for the purpose of reducing the friction between them.  lubricants . gas lubricants	GS anatomy . lumbar region regions . lumbar region	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a	the
DEF surfaces or wear	Substances interposed between two for the purpose of reducing the friction between them.  lubricants . gas lubricants . high temperature lubricants	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.	the
DEF surfaces or wear	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow	the
DEF surfaces or wear GS	Substances interposed between two for the purpose of reducing the friction between them.  lubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow  noctilucence	the
DEF surfaces or wear	Substances interposed between two for the purpose of reducing the friction between them.  lubricants . gas lubricants . lubricating oils . solid lubricants additives	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission	the
DEF surfaces or wear GS	Substances interposed between two for the purpose of reducing the friction between them.  lubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission	the
DEF surfaces or wear GS	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux e	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission luminescence	the
DEF surfaces or wear GS	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux e luminous flux radiated into a unit	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission . luminescence equal to the solid angle bioluminescence	the
DEF surfaces or wear GS	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux e luminous flux radiated into a unit (steradian) from a point source ha	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission . luminescence t solid angle aving a lumi-  cathode glow	the
DEF surfaces or wear GS	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux e luminous flux radiated into a unit	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission . luminescence equal to the solid angle bioluminescence	the
DEF surfaces or wear GS	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux e luminous flux radiated into a unit (steradian) from a point source ha	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission . luminescence t solid angle aving a lumi-  cathode glow	the
DEF surfaces or wear GS	Substances interposed between two for the purpose of reducing the friction between them.  lubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen liquid metals	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux eluminous flux radiated into a unit (steradian) from a point source hanous intensity of 1 candela. GS pressure . radiation pressure	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission . luminescence aving a lumi cathode glow . cathodoluminescence . chemiluminescence . electroluminescence	the
DEF surfaces or wear GS	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen liquid metals lubrication	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux e luminous flux radiated into a unit (steradian) from a point source ha nous intensity of 1 candela. GS pressure	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission . luminescence a solid angle aving a lumi cathodoluminescence chemiluminescence	the
DEF surfaces or wear GS	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen liquid metals lubrication lubrication systems	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux eluminous flux radiated into a unit (steradian) from a point source hanous intensity of 1 candela. GS pressure . radiation pressure	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission . luminescence aving a lumi cathode glow . cathodoluminescence . chemiluminescence . electroluminescence	the
DEF surfaces or wear GS	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen liquid metals lubrication lubrication systems maintenance oils	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux e luminous flux radiated into a unit (steradian) from a point source ha nous intensity of 1 candela. GS pressure . radiation pressure . lumens	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission . luminescence t solid angle aving a lumi cathode glow . cathodoluminescence . chemiluminescence . electroluminescence . fluorescence . laser induced fluorescence	the
DEF surfaces or wear GS	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen liquid metals lubrication systems maintenance oils petroleum products	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux eluminous flux radiated into a unit (steradian) from a point source hanous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time)	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission . luminescence a solid angle aving a lumi  luminescence cathodoluminescence chemiluminescence electroluminescence electroluminescence fluorescence	the
DEF surfaces or wear GS	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen liquid metals lubrication lubrication systems maintenance oils	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux e luminous flux radiated into a unit (steradian) from a point source ha nous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density . radiant flux density	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission Ilight emission I	the
DEF surfaces or wear GS	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen liquid metals lubrication lubrication systems maintenance oils petroleum products squeeze films	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux e luminous flux radiated into a unit (steradian) from a point source ha nous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density radiant flux density lumens	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission . luminescence a solid angle aving a lumi  . cathodoluminescence . chemiluminescence . chemiluminescence . electroluminescence . fluorescence . laser induced fluorescence . phosphorescence . resonance fluorescence resonance fluorescence x ray fluorescence	the
DEF surfaces or wear GS RT	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen liquid metals lubrication systems maintenance oils petroleum products squeeze films ing oils	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux eluminous flux radiated into a unit (steradian) from a point source hanous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density . radiant flux density lumens RT light (visible radiation)	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission . luminescence t solid angle aving a lumi  . cathodoluminescence . chemiluminescence . electroluminescence . fluorescence . laser induced fluorescence . phosphorescence . x ray fluorescence . lunar luminescence . lunar luminescence	the
DEF surfaces or wear GS	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen liquid metals lubrication systems maintenance oils petroleum products squeeze films  ing oils lubricants	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens  DEF Units of luminous flux e luminous flux radiated into a unit (steradian) from a point source ha nous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density radiant flux density lumens RT light (visible radiation) luminance	stellar magnitude    Juminescence	the
DEF surfaces or wear GS RT	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen liquid metals lubrication systems maintenance oils petroleum products squeeze films  ing oils lubricating oils . lubricating oils	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux e luminous flux radiated into a unit (steradian) from a point source ha nous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density radiant flux density lumens RT light (visible radiation) luminance luminescence	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission . luminescence existing a lumi . cathode glow . cathode glow . cathodoluminescence . chemiluminescence . electroluminescence . fluorescence . laser induced fluorescence . phosphorescence . v ray fluorescence . lunar luminescence . optical resonance . optical resonance . photoluminescence . photoluminescence . photoluminescence . optical resonance . optical resonance . photoluminescence	the
DEF surfaces or wear GS RT	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen liquid metals lubrication lubrication systems maintenance oils petroleum products squeeze films  ing oils lubricating oils oils	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux e luminous flux radiated into a unit (steradian) from a point source ha nous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density radiant flux density lumens RT light (visible radiation) luminance luminescence luminosity	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission . luminescence a solid angle aving a lumi . cathodoluminescence . chemiluminescence . chemiluminescence . fluorescence . laser induced fluorescence . phosphorescence . x ray fluorescence . unar luminescence . optical resonance . photoluminescence . photoluminescence . inprotoluminescence . photoluminescence . photoluminescence . photoluminescence . inprotoluminescence . photoluminescence . inprotoluminescence	the
DEF surfaces or wear GS RT	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen liquid metals lubrication systems maintenance oils petroleum products squeeze films  ing oils lubricants . Iubricating oils . lubricating oils . lubricating oils	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux eluminous flux radiated into a unit (steradian) from a point source hanous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density . radiant flux density Iumens RT light (visible radiation) luminance luminescence luminosity optical properties	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for the mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission light emission light emission light emission light emission cathodoluminescence cathodoluminescence lectroluminescence lectroluminescence lectroluminescence laser induced fluorescence phosphorescence lunar luminescence lunar luminescence photoluminescence lunar luminescence	the
DEF surfaces or wear GS RT	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen liquid metals lubrication systems maintenance oils petroleum products squeeze films ing oils lubricating oils oils . lubricating oils detergents	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux e luminous flux radiated into a unit (steradian) from a point source ha nous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density radiant flux density lumens RT light (visible radiation) luminance luminescence luminosity	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission . luminescence t solid angle is bioluminescence	the
DEF surfaces or wear GS RT	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen liquid metals lubrication systems maintenance oils petroleum products squeeze films  ing oils lubricating oils oils . lubricating oils detergents lubrication	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens  DEF Units of luminous flux eluminous flux radiated into a unit (steradian) from a point source hanous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density . radiant flux density . rumens RT light (visible radiation) luminance luminescence luminosity optical properties radiance	stellar magnitude    Iuminescence	the
DEF surfaces or wear GS RT	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen liquid metals lubrication systems maintenance oils petroleum products squeeze films ing oils lubricating oils oils . lubricating oils detergents	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux e luminous flux radiated into a unit (steradian) from a point source ha nous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density . radiant flux density . radiant flux density . Iumens RT light (visible radiation) luminance luminescence luminosity optical properties radiance  luminaires	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission . luminescence t solid angle is bioluminescence	the
DEF surfaces or wear GS RT	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen liquid metals lubrication systems maintenance oils petroleum products squeeze films  Iubricants . Iubricating oils oils . lubricating oils detergents lubrication mineral oils petroleum products	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens  DEF Units of luminous flux eluminous flux radiated into a unit (steradian) from a point source hanous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density . radiant flux density . rumens RT light (visible radiation) luminance luminescence luminosity optical properties radiance	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission . luminescence . bioluminescence . bioluminescence . cathodoluminescence . chemiluminescence . fluorescence . fluorescence . laser induced fluorescence . phosphorescence . y ray fluorescence . lunar luminescence . photoluminescence . photoluminescence . x ray fluorescence . x ray fluorescence . x ray fluorescence . shock wave luminescence . spacecraft glow . thermoluminescence	the
DEF surfaces or wear GS RT	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen liquid metals lubrication lubrication systems maintenance oils petroleum products squeeze films  ing oils lubricating oils . lubricating oils oils . lubricating oils detergents lubrication mineral oils	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux eluminous flux radiated into a unit (steradian) from a point source hanous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density . radiant flux density radiant flux density lumens RT light (visible radiation) luminance luminescence luminosity optical properties radiance  luminaires UF electroluminescent lamps lamps	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission . luminescence to solid angle aving a lumi  . cathodo glow . cathodo luminescence . chemiluminescence . electroluminescence . laser induced fluorescence . phosphorescence . phosphorescence . lunar luminescence . lunar luminescence . photoluminescence . photoluminescence . spacecraft glow . x ray fluorescence . spacecraft glow . thermoluminescence . spacecraft glow . thermoluminescence . Tetrolows	the
DEF surfaces or wear GS RT	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen liquid metals lubrication systems maintenance oils petroleum products squeeze films  Iubricants . Iubricating oils oils . lubricating oils detergents lubrication mineral oils petroleum products	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux eluminous flux radiated into a unit (steradian) from a point source hanous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density radiant flux density radiant flux density lumens RT light (visible radiation) luminance luminescence luminosity optical properties radiance  luminaires UF electroluminescent lamps	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission . luminescence . bioluminescence . bioluminescence . cathodoluminescence . chemiluminescence . electroluminescence . fluorescence . laser induced fluorescence . phosphorescence . resonance fluorescence . unar luminescence . photoluminescence . photoluminescence . photoluminescence . x ray fluorescence . x ray fluorescence . shock wave luminescence . spacecraft glow . thermoluminescence	the
DEF surfaces or wear GS RT	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen liquid metals lubrication systems maintenance oils petroleum products squeeze films  ing oils lubricating oils oils . lubricating oils detergents lubrication mineral oils petroleum products shale oil	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux eluminous flux radiated into a unit (steradian) from a point source hanous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density . radiant flux density radiant flux density lumens RT light (visible radiation) luminance luminescence luminosity optical properties radiance  luminaires UF electroluminescent lamps lamps	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission . luminescence to solid angle aving a lumi  . cathodo glow . cathodo luminescence . chemiluminescence . electroluminescence . laser induced fluorescence . phosphorescence . phosphorescence . lunar luminescence . lunar luminescence . photoluminescence . photoluminescence . spacecraft glow . x ray fluorescence . spacecraft glow . thermoluminescence . spacecraft glow . thermoluminescence . Tetrolows	the
DEF surfaces or wear GS RT	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen liquid metals lubrication systems maintenance oils petroleum products squeeze films  ing oils lubricating oils oils . lubricating oils detergents lubrication mineral oils petroleum products shale oil	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens  DEF Units of luminous flux e luminous flux radiated into a unit (steradian) from a point source ha nous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density . radiant flux density . radiant flux density . Iumens RT light (visible radiation) luminance luminescence luminosity optical properties radiance  luminaires  UF electroluminescent lamps lamps light bulbs lights	stellar magnitude    Juminescence	the
DEF surfaces or wear GS RT	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen liquid metals lubrication lubrication systems maintenance oils petroleum products squeeze films  ing oils lubricating oils . lubricating oils oils . lubrication goils detergents lubrication mineral oils petroleum products shale oil ion lubrication	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux eluminous flux radiated into a unit (steradian) from a point source hanous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density radiant flux density radiant flux density lumens RT light (visible radiation) luminance luminescence luminosity optical properties radiance  luminaires UF electroluminescent lamps lamps light bulbs lights GS lighting equipment	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission . luminescence . bioluminescence . bioluminescence . chemiluminescence . chemiluminescence . laser induced fluorescence . phosphorescence . lunar luminescence . unar luminescence . photoluminescence . photoluminescence . spacecraft glow . thermoluminescence . spacecraft glow . thermoluminescence  RT afterglows alkali vapor lamps brightness electron-hole drops	the
DEF surfaces or wear GS RT	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen liquid metals lubrication systems maintenance oils petroleum products squeeze films  ing oils lubricating oils . Iubricating oils detergents lubrication mineral oils petroleum products shale oil ion lubrication . boundary lubrication	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux eluminous flux radiated into a unit (steradian) from a point source hanous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density . radiant flux density Iumens RT light (visible radiation) luminance luminescence luminosity optical properties radiance  luminaires  UF electroluminescent lamps lamps lights lights GS lighting equipment . luminaires	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission . light emission . luminescence . bioluminescence . cathode glow . cathodoluminescence . chemiluminescence . electroluminescence . fluorescence . laser induced fluorescence . phosphorescence . y ray fluorescence . lunar luminescence . photoluminescence . photoluminescence . y ray fluorescence . shock wave luminescence . shock wave luminescence . spacecraft glow . thermoluminescence . spacecraft glows alkali vapor lamps brightness electron-hole drops Fraunhofer line discriminators	the
DEF surfaces or wear GS RT	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubrication graphite greases kerogen liquid metals lubrication systems maintenance oils petroleum products squeeze films  ing oils lubricating oils . lubricating oils detergents lubrication mineral oils petroleum products shale oil ion lubrication . boundary lubrication . boundary lubrication . self lubrication	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens  DEF Units of luminous flux eluminous flux radiated into a unit (steradian) from a point source hanous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density . radiant flux density . radiant flux density . lumens  RT light (visible radiation) luminance luminescence luminosity optical properties radiance  luminaires  UF electroluminescent lamps lamps light bulbs lights GS lighting equipment . luminaires . aircraft lights	stellar magnitude    Luminescence   DEF   Light emission by a process in whikinetic heat energy is not essential for the mechanism of excitation. Used for glow a noctilucence.    UF   glow   noctilucence	the
DEF surfaces or wear GS RT	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubrication graphite greases kerogen liquid metals lubrication lubrication systems maintenance oils petroleum products squeeze films  ing oils lubricating oils . Iubricating oils oils . lubricating oils detergents lubrication mineral oils petroleum products shale oil  ion lubrication . boundary lubrication . self lubrication . self lubrication . self lubrication . spacecraft lubrication . spacecraft lubrication	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens  DEF Units of luminous flux e luminous flux radiated into a unit (steradian) from a point source ha nous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density . radiant flux density lumens RT light (visible radiation) luminance luminescence luminosity optical properties radiance  luminaires  UF electroluminescent lamps lamps light bulbs lights GS lighting equipment . luminaires . aircraft lights . airport lights	stellar magnitude    Luminescence   DEF   Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.    UF   glow   noctilucence	the
DEF surfaces or wear GS RT Iubricat GS	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubrication graphite greases kerogen liquid metals lubrication systems maintenance oils petroleum products squeeze films  ing oils lubricating oils . Iubricating oils detergents lubrication mineral oils petroleum products shale oil  ion lubrication . boundary lubrication . self lubrication . spacecraft lubrication . vapor phase lubrication . vapor phase lubrication	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens  DEF Units of luminous flux e luminous flux radiated into a unit (steradian) from a point source ha nous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density radiant flux density lumens RT light (visible radiation) luminance luminescence luminosity optical properties radiance  luminaires  UF electroluminescent lamps lamps light bulbs lights GS lighting equipment . luminaires aircraft lights airport lights irunway lights	stellar magnitude    Luminescence   DEF   Light emission by a process in whikinetic heat energy is not essential for the mechanism of excitation. Used for glow a noctilucence.    UF   glow   noctilucence	the
DEF surfaces or wear GS RT	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen liquid metals lubrication systems maintenance oils petroleum products squeeze films  ing oils lubricatins . Iubricating oils oils . lubricating oils detergents lubrication mineral oils petroleum products shale oil  ion lubrication . boundary lubrication . spacecraft lubrication . spacecraft lubrication . vapor phase lubrication bearings	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux eluminous flux radiated into a unit (steradian) from a point source hanous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density radiant flux density Iumens RT light (visible radiation) luminance luminescence luminosity optical properties radiance  luminaires UF electroluminescent lamps lamps light bulbs lights GS lighting equipment . luminaires . aircraft lights . airport lights . arc lamps	stellar magnitude    Luminescence   DEF   Light emission by a process in whikinetic heat energy is not essential for the mechanism of excitation. Used for glow a noctilucence.    UF   glow   noctilucence	the
DEF surfaces or wear GS RT Iubricat GS	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubrication graphite greases kerogen liquid metals lubrication lubrication systems maintenance oils petroleum products squeeze films  ing oils lubricating oils . lubricating oils detergents lubrication mineral oils petroleum products shale oil  ion lubrication . boundary lubrication . self lubrication . self lubrication . self lubrication . self lubrication . vapor phase lubrication bearings elastohydrodynamics	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens  DEF Units of luminous flux eluminous flux radiated into a unit (steradian) from a point source hanous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density . radiant flux density . radiant flux density . lumens  RT light (visible radiation) luminance luminescence luminosity optical properties radiance  luminaires  UF electroluminescent lamps lamps light bulbs lights GS lighting equipment . luminaires . aircraft lights . airport lights . airport lights . arc lamps . flash lamps	stellar magnitude    Luminescence   DEF   Light emission by a process in whikinetic heat energy is not essential for the mechanism of excitation. Used for glow a noctilucence.    UF   glow   noctilucence	the
DEF surfaces or wear GS RT Iubricat GS	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubrication graphite greases kerogen liquid metals lubrication lubrication systems maintenance oils petroleum products squeeze films  ing oils lubricating oils . lubricating oils oils . lubricating oils detergents lubrication mineral oils petroleum products shale oil  ion lubrication . spacecraft lubrication . spacecraft lubrication . vapor phase lubrication bearings elastohydrodynamics engines	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens  DEF Units of luminous flux eluminous flux radiated into a unit (steradian) from a point source hanous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density . radiant flux density . Iumens  RT light (visible radiation) luminance luminescence luminosity optical properties radiance  luminaires  UF electroluminescent lamps lamps light bulbs lights GS lighting equipment . luminaires . aircraft lights . airport lights . arc lamps . flash lamps . alkali vapor lamps . alkali vapor lamps	stellar magnitude    Luminescence   DEF   Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.    UF   glow   noctilucence	the
DEF surfaces or wear GS RT Iubricat GS	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubrication graphite greases kerogen liquid metals lubrication systems maintenance oils petroleum products squeeze films  ing oils lubricating oils . Iubricating oils oils . lubricating oils detergents lubrication mineral oils petroleum products shale oil  ion lubrication . boundary lubrication . self lubrication . self lubrication . spacecraft lubrication . vapor phase lubrication bearings elastohydrodynamics engines friction reduction	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens  DEF Units of luminous flux e luminous flux radiated into a unit (steradian) from a point source ha nous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density . radiant flux density lumens RT light (visible radiation) luminance luminescence luminosity optical properties radiance  luminaires  UF electroluminescent lamps lamps light bulbs lights GS lighting equipment . luminaires . aircraft lights . aircynt lights . aircynt lights . arc lamps . flash lamps . alkali vapor lamps . mercury lamps . mercury lamps . mercury lamps	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission . luminescence . bioluminescence . bioluminescence . chemiluminescence . chemiluminescence . laser induced fluorescence . phosphorescence . phosphorescence . unar luminescence . photoluminescence . photoluminescence . photoluminescence . spacecraft glow . triboluminescence . spacecraft glow . thermoluminescence  RT afterglows alkali vapor lamps brightness electron-hole drops Fraunhofer line discriminators  illuminators incandescence light (visible radiation) light emitting diodes lumens luminosity	the
DEF surfaces or wear GS RT Iubricat GS	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubricants additives boundary lubrication graphite greases kerogen liquid metals lubrication systems maintenance oils petroleum products squeeze films  ing oils lubricatis . Iubricating oils detergents lubrication mineral oils petroleum products shale oil  ion lubrication . spacecraft lubrication . spacecraft lubrication . vapor phase lubrication bearings elastohydrodynamics engines friction reduction gears	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens DEF Units of luminous flux eluminous flux radiated into a unit (steradian) from a point source hanous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density . radiant flux density . radiant flux density . Iumens RT light (visible radiation) luminance luminescence luminosity optical properties radiance  luminaires  UF electroluminescent lamps lamps light bulbs lights GS lighting equipment . luminaires . aircraft lights . airport lights . runway lights . arc lamps . flash lamps . alkali vapor lamps . mercury lamps . mercury lamps . mercury lamps . quartz lamps	Iuminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission . light emission . luminescence . bioluminescence . cathodoluminescence . chemiluminescence . chemiluminescence . fluorescence . laser induced fluorescence . phosphorescence . lunar luminescence . lunar luminescence . photoluminescence . photoluminescence . triboluminescence . x ray fluorescence . x ray fluorescence . shock wave luminescence . spacecraft glow . thermoluminescence . illumination illuminators incandescence light (visible radiation) light emitting diodes lumens luminosity luminous intensity	the
DEF surfaces or wear GS RT Iubricat GS	Substances interposed between two for the purpose of reducing the friction between them.  Iubricants . gas lubricants . high temperature lubricants . lubricating oils . solid lubrication graphite greases kerogen liquid metals lubrication systems maintenance oils petroleum products squeeze films  ing oils lubricating oils . Iubricating oils oils . lubricating oils detergents lubrication mineral oils petroleum products shale oil  ion lubrication . boundary lubrication . self lubrication . self lubrication . spacecraft lubrication . vapor phase lubrication bearings elastohydrodynamics engines friction reduction	GS anatomy . lumbar region regions . lumbar region RT human body sciatic region  lumbering areas USE forests  lumens  DEF Units of luminous flux e luminous flux radiated into a unit (steradian) from a point source ha nous intensity of 1 candela. GS pressure . radiation pressure . lumens rates (per time) . flux density . radiant flux density lumens RT light (visible radiation) luminance luminescence luminosity optical properties radiance  luminaires  UF electroluminescent lamps lamps light bulbs lights GS lighting equipment . luminaires . aircraft lights . aircynt lights . aircynt lights . arc lamps . flash lamps . alkali vapor lamps . mercury lamps . mercury lamps . mercury lamps	stellar magnitude  luminescence  DEF Light emission by a process in whi kinetic heat energy is not essential for t mechanism of excitation. Used for glow a noctilucence.  UF glow noctilucence  GS emission . light emission . luminescence . bioluminescence . bioluminescence . chemiluminescence . chemiluminescence . laser induced fluorescence . phosphorescence . phosphorescence . unar luminescence . photoluminescence . photoluminescence . photoluminescence . spacecraft glow . triboluminescence . spacecraft glow . thermoluminescence  RT afterglows alkali vapor lamps brightness electron-hole drops Fraunhofer line discriminators  illuminators incandescence light (visible radiation) light emitting diodes lumens luminosity	the

optical transition plasma radiation stellar luminosity Stokes law of radiation temperature sensitive paints visibility

luminescent intensity USE luminous intensity

#### luminescent proteins

(added August 2004)

(added August 2004)
DEF Proteins which are involved in the phenomenon of light emission in living systems. Included are the "enzymatic" and "nonenzymatic" types of system with or without the presence of oxygen or co-factors.

GS biopolymers

. proteins

#### . luminescent proteins

organic compounds

. proteins

#### . luminescent proteins

RT bioluminescence

#### luminosity

electromagnetic properties optical properties GS

... luminosity

. . . stellar luminosity brightness emissivity

emittance illuminance incandescence

light (visible radiation)

lumens luminescence

mass to light ratios phosphene

radiance radiant flux density

Tully-Fisher relation visibility

luminous flux density

USE luminous intensity

# luminous intensity

(LIMITED TO EMISSION OR DETECTION

RATE PER UNIT AREA OF VISIBLE RADIATION)
DEF Luminous energy per unit time per unit solid angle; the intensity (flux per unit solid angle) of visible radiation weighted to take into account the variable response of the human eye as a function of the wavelength of light; usually expressed in candles. Used for light intensity, luminescent intensity, and luminous flux density.

light intensity luminescent intensity

luminous flux density

GS pressure

. radiation pressure

### ... luminous intensity

. . . illuminance . . . luminance

rates (per time)

. flux density

. . radiant flux density

. . . luminous intensity

. . . . illuminance

. luminance

BL Lacertae objects

brightness emittance flux (rate)

incandescence

∞ intensity

irradiance

light (visible radiation)

luminescence mass to light ratios radiancy

Seyfert galaxies solar flux density stellar magnitude

### lumped parameter systems

Systems in which the parameters may be considered to represent, for purposes of analysis, a single inductance, capacitance, resistance, etc., throughout the frequency range of

lumping

mathematical models matrices (mathematics)

#### lumping

agglomeration coagulation collection

composition (property) lumped parameter systems

LUNA lunar probes

USE Lunik lunar probes

#### lunar albedo

albedo GS

. lunar albedo

absorptance cosmic ray albedo Earth albedo optical properties surface properties

#### lunar atmosphere

lunar ionosphere GS

environments

. extraterrestrial environments

. . lunar environment

... lunar atmosphere

. satellite atmospheres

. lunar atmosphere

moon

planetary atmospheres

# lunar based equipment

(added December 1990)

#### lunar based equipment

lunar construction equipment

lunar excavation equipment

lunar retroreflectors

RT ∞ equipment

lunar bases

lunar flying vehicles lunar laboratories

lunar logistics

lunar mining

lunar shelters

lunar surface vehicles

#### lunar bases

GS space bases

. lunar bases

**AEPS** 

Altair Lunar Lander

∞ astronautics

∞ bases

lunar based equipment

lunar construction equipment

lunar laboratories lunar mining

Mars bases moon

orbiting lunar stations space colonies

stations terraforming

lunar cinematography

USE lunar photography

#### lunar communication

GS telecommunication

. space communication . . lunar communication

. . circumlunar communication facsimile communication interplanetary communication

lasers

moon

optical communication

radar

radio communication satellite communication spacecraft communication

## lunar composition

composition (property)

lunar composition

lunar core

Lunar Prospector moon

pre-Imbrian period

. selenology

siderophile elements

#### lunar construction equipment

(added December 1990)

GS lunar based equipment

#### lunar construction equipment

lunar bases

lunar excavation equipment

lunar shelters

lunar surface vehicles

#### lunar core

GS cores

lunar core

lunar composition lunar geology planetary cores

selenology

#### lunar craters

DEF A depression, usually circular, on the surface of the moon, usually with a raised rim called a ringwall.

GS craters

. lunar craters

. . Ptolemaeus Crater

. . Tycho crater RT

meteorite craters

moon pre-Imbrian period selenography

# lunar crust

GS crusts

lunar crust

selenology

Earth crust

moon

planetary crusts selenography selenology

# lunar dust

particles GS

. dust

. . lunar dust

soils

. lunar soil . lunar dust

RT moon selenology

lunar echoes GS echoes

. lunar echoes

. lunar radar echoes radio echoes selenology

lunar eclipses DEF The phenomenon observed when the moon enters the shadow of the Earth.

eclipses

. lunar eclipses moon

selenology

lunar effects lunar perturbation

lunar effects

. lunar gravitational effects . lunar tides

RT ∞ effects orbit perturbation selenology

#### lunar environment

GS environments

. extraterrestrial environments

. . lunar environment

	lunar atmosphere		Apollo project		lunar based equipment
RT	aerospace environments	۰	∘ systems		lunar bases
	bioastronautics		•		lunar observatories
	exobiology	lunar fa			space laboratories
	life support systems	RT	libration	lunar la	unding
	moon planetary environments		moon selenology	GS	•
	selenology		Solonology	0.0	. spacecraft landing
	terraforming	lunar fi	gure		lunar landing
	thermal environments	RT	selenology	RT	Altair Lunar Lander
lunor or	augtor.	lunar fl	ight		Apollo 5 flight Apollo 6 flight
lunar ed GS	equators	GS	space flight		Apollo 7 flight
ao	. lunar equator		. lunar flight		Apollo 8 flight
RT	infrared imagery	RT	Apollo 5 flight		Apollo 9 flight
	radar imagery		Apollo 6 flight		Apollo 10 flight
	selenology		Apollo 7 flight Apollo 8 flight		Apollo 11 flight
lunar es	scape devices		Apollo 9 flight		Apollo 12 flight Apollo 13 flight
RT	· · · · · · · · · · · · · · · · · · ·		Apollo 10 flight		Apollo 14 flight
	escape rockets		Apollo 11 flight		Apollo 15 flight
	at the control of the		Apollo 12 flight		Apollo 16 flight
GS	volution evolution (development)		Apollo 13 flight		Apollo 17 flight
ds	. lunar evolution		Apollo 14 flight Apollo 15 flight		Apollo lunar experiment module crash landing
RT	moon		Apollo 16 flight		hard landing
	pre-Imbrian period		Apollo 17 flight		planetary landing
	selenology		circumlunar trajectories		soft landing
	solar system evolution		cislunar space		Surveyor project
lunar ex	xcavation equipment		Earth-Moon trajectories ∘ flight	lunar la	inding modules
	ed December 1990)		flyby missions	GS	lunar spacecraft
	lunar based equipment		moon-Earth trajectories	0.0	. lunar landing modules
	lunar excavation equipment		orbits		Lunar Module
RT ∝	• equipment		odno contrata		Apollo lunar experiment module
	excavation lunar construction equipment		<b>ying vehicles</b> ∘ flight vehicles		LSSM Lunar Module 5
	lunar mining	111 ~	lifting bodies		Lunar Module 7
	lunar resources		lunar based equipment		Altair Lunar Lander
	lunar surface vehicles	٥	∘ vehicles		modules
	tractors		a a la mu		. spacecraft modules
lunar ev	xploration	lunar g	The science that applies geologic prin-		landing modules
	exploration		nd techniques to the study of the moon,		<b>lunar landing modules</b> Lunar Module
	. space exploration		lly its composition and the origin of its		Apollo lunar experiment
	lunar exploration	surface	features.		module
RT	Altair Lunar Lander	GS	geology		LSSM
	Apollo 5 flight	RT	. lunar geology		Lunar Module 5
	Apollo 6 flight Apollo 7 flight	nı	geomorphology lunar core		Lunar Module 7 Altair Lunar Lander
	Apollo 8 flight		lunar maria		soft landing spacecraft
	Apollo 9 flight		lunar seismographs		. landing modules
	Apollo 10 flight		moon		lunar landing modules
	Apollo 11 flight		moonquakes		Lunar Module
	Apollo 12 flight Apollo 13 flight		planetary geology pre-Imbrian period		Apollo lunar experiment module LSSM
	Apollo 14 flight		regolith		Lunar Module 5
	Apollo 15 flight		seismology		Lunar Module 7
	Apollo 16 flight		selenology		Altair Lunar Lander
	Apollo 17 flight Apollo lunar experiment module	lunar a	ravitation		spacecraft components
	Apollo Lunar Surface Experiments	_	gravitation		. spacecraft modules landing modules
	Package	0.0	. lunar gravitation		lunar landing modules
	Apollo project	RT	moon		Lunar Module
	Clementine spacecraft		planetary gravitation		Apollo lunar experiment
	Crew Exploration Vehicle EASEP		selenology		module
	extraterrestrial resources	lunar q	ravitational effects		LSSM Lunar Module 5
	local scientific survey module	GS	gravitational effects		Lunar Module 7
	Lunar Prospector		. lunar gravitational effects		Altair Lunar Lander
	lunar resources		lunar effects	RT	Apollo extension system
	Mars exploration	DT.	. lunar gravitational effects		maneuverable spacecraft
	moon selenology	nı °	∞ effects selenology		manned spacecraft reusable spacecraft
	ololology		osis.iology		unmanned spacecraft
Lunar E	Exploration System for Apollo	Lunar (	Gravity Simulator		annamed opassoran
UF	LESA (lunar exploration system)	GS	simulators		inding sites
RT	Apollo 5 flight Apollo 6 flight		. environment simulators	GS	sites
	Apollo 7 flight	RT	Lunar Gravity Simulator gravitation		. landing sites lunar landing sites
	Apollo 8 flight		9.4.11411011	RT	moon
	Apollo 9 flight	lunar io	nosphere	111	selenography
	Apollo 10 flight	USE	lunar atmosphere		
	Apollo 11 flight	luman !	shavatavia a		ser ranging
	Apollo 12 flight Apollo 13 flight		aboratories ed April 1993)		ed July 2001)
	Apollo 13 flight		laboratories	USE	laser ranging lunar rangefinding
	Apollo 15 flight	30	. lunar laboratories		
	Apollo 16 flight		lunar receiving laboratory	lunar la	
	Apollo 17 flight	RT	LSSM	GS	launching

	. rocket launching	strip mining		Lunar Module 5
	lunar launch			spacecraft components
RT	Apollo 5 flight	lunar mobile laboratories  UF MOLABS		. spacecraft modules
	Apollo 6 flight	UF <i>MOLABS</i> GS laboratories		landing modules
	Apollo 7 flight	. lunar mobile laboratories		lunar landing modules
	Apollo 8 flight Apollo 9 flight	surface vehicles		Lunar Module
	Apollo 9 llight	. lunar surface vehicles	DT	Lunar Module 5
	Apollo 11 flight	lunar mobile laboratories	RT	Apollo spacecraft
	Apollo 12 flight	RT Apollo project	Lunar	Module 7
	Apollo 13 flight	manned lunar surface vehicles	GS	
	Apollo 14 flight	selenography	0.0	. lunar landing modules
	Apollo 15 flight	0 1 7		Lunar Module
	Apollo 16 flight	Lunar Module		Lunar Module 7
	Apollo 17 flight	UF LEM (lunar module)		manned spacecraft
	orbital launching	GS lunar spacecraft		. Lunar Module
	Saturn project	. lunar landing modules		Lunar Module 7
		Lunar Module		modules
lunar li	mb	Apollo lunar experiment module LSSM		. spacecraft modules
RT	libration	Lunar Module 5		landing modules
0	∘ limbs	Lunar Module 7		lunar landing modules Lunar Module
	moon	manned spacecraft		Lunar Module 7
	planetary limb	. Lunar Module		soft landing spacecraft
	selenology	Apollo lunar experiment module		. landing modules
		LSSM		lunar landing modules
lunar lo	gistics	Lunar Module 5		Lunar Module
GS	logistics	Lunar Module 7		Lunar Module 7
	. lunar logistics	modules		spacecraft components
RT	Altair Lunar Lander	. spacecraft modules		. spacecraft modules
	life support systems	landing modules		landing modules
	lunar based equipment	lunar landing modules		lunar landing modules
	manned lunar surface vehicles	Lunar Module		Lunar Module
	materials handling	Apollo lunar experiment		Lunar Module 7
		module	RT	Apollo spacecraft
	ıminescence	LSSM		Madula Assaut Otana
GS	emission	Lunar Module 5 Lunar Module 7		Module Ascent Stage
	. light emission	soft landing spacecraft	RT	ascent ascent trajectories
	luminescence lunar luminescence	. landing modules		rocket engines
RT	moon	lunar landing modules		stage separation
пі	selenology	Lunar Module		stage separation
	Selenology	Apollo lunar experiment module	lunar o	bservatories
	accustic fields	LSSM	GS	observatories
	nagnetic fields	Lunar Module 5		. lunar observatories
GS	magnetic fields	Lunar Module 7	RT	astronomical observatories
RT	. Iunar magnetic fields moon	spacecraft components		lunar laboratories
n.	selenology	. spacecraft modules		
	sciendingy	landing modules		ccultation
		lunar landing modules	GS	occultation
lunar m RT	core-mantle boundary	Lunar Module		. lunar occultation
пі	crusts	Apollo lunar experiment	DT	solar eclipses
	Earth mantle	module	RT	Exosat satellite
	planetary mantles	LSSM Lunar Module 5		moon
	planetary structure	Lunar Module 5		selenology stellar occultation
	regolith	RT Apollo 5 flight		Stellar occultation
	selenology	Apollo 6 flight	lunar o	orbit and landing simulators
		Apollo 7 flight	UF	
lunar m	nane	Apollo 8 flight	GS	simulators
GS	maps	Apollo 9 flight		lunar orbit and landing simulators
ao	. lunar maps	Apollo 10 flight	RT	
RT	astronomical maps	Apollo 11 flight		training simulators
	Clementine spacecraft	Apollo 12 flight		
	moon	Apollo 13 flight		orbital rendezvous
	selenography	Apollo 14 flight		LOR (rendezvous)
		Apollo 15 flight	GS	
lunar m	naria	Apollo 16 flight		. orbital maneuvers
GS	maria	Apollo 17 flight		orbital rendezvous
0.0	. lunar maria	Apollo spacecraft		lunar orbital rendezvous
RT	basalt	ascent propulsion systems		rendezvous . space rendezvous
	lunar geology	Lunar Module 5		orbital rendezvous
	lunar rocks	GS lunar spacecraft		lunar orbital rendezvous
	selenology	. lunar landing modules	RT	Earth orbital rendezvous
		Lunar Module		orbital mechanics
lunar m	nining	Lunar Module 5		spacecraft trajectories
	ed December 1990)	manned spacecraft		-,
ĠS	mining	. Lunar Module	Lunar	Orbiter
	. lunar mining	Lunar Module 5	GS	
RT	lunar based equipment	modules		. lunar satellites
	lunar bases	. spacecraft modules		Lunar Orbiter
	lunar excavation equipment	landing modules		Lunar Orbiter 1
	lunar resources	lunar landing modules		Lunar Orbiter 2
	lunar rocks	Lunar Module		Lunar Orbiter 3
	lunar soil	Lunar Module 5		Lunar Orbiter 4
	mineral deposits	soft landing spacecraft		Lunar Orbiter 5
	mines (excavations)	. landing modules		lunar spacecraft
	space commercialization	lunar landing modules		. lunar satellites
	space industrialization	Lunar Module		Lunar Orbiter

	Lunar Orbiter 1	orbital mechanics		Lunik 20 lunar probe
	Lunar Orbiter 2	parking orbits		Lunik 22 lunar probe
	Lunar Orbiter 3	perilunes		Ranger lunar probes
	Lunar Orbiter 4	polar orbits		Ranger 1 lunar probe
	Lunar Orbiter 5	satellite orbits		Ranger 2 lunar probe
		spacecraft orbits		Ranger 3 lunar probe
Lunar	Orbiter 1			
		transfer orbits		Ranger 4 lunar probe
UF	Lunar Orbiter A			Ranger 5 lunar probe
GS	artificial satellites	lunar perturbation		Ranger 6 lunar probe
	. lunar satellites	USE lunar effects		Ranger 7 lunar probe
		OOL Idilai Circuis		
	Lunar Orbiter			Ranger 8 lunar probe
	Lunar Orbiter 1	lunar phases		Ranger 9 lunar probe
	lunar spacecraft	RT moon		Ranger lunar landing vehicles
	. lunar satellites	∞ phases		
		·		Surveyor lunar probes
	Lunar Orbiter	selenology		Surveyor 1 lunar probe
	Lunar Orbiter 1	terminator lines		Surveyor 2 lunar probe
Lunar	Orbiter 2	luner photographs		Surveyor 3 lunar probe
		lunar photographs		Surveyor 4 lunar probe
UF	Lunar Orbiter B	GS photographs		Surveyor 5 lunar probe
GS	artificial satellites	. lunar photographs		Surveyor 6 lunar probe
	. lunar satellites	RT astronomical photography		
				Surveyor 7 lunar probe
	Lunar Orbiter	photography	RT	Apollo project
	Lunar Orbiter 2	Ranger project		Atlas Able 5 launch vehicle
	lunar spacecraft	spaceborne photography		
		opacobomo priotograpny		maneuverable spacecraft
	. lunar satellites			Pioneer project
	Lunar Orbiter	lunar photography		Ranger project
	Lunar Orbiter 2	UF lunar cinematography		
	Edilar Gronor E	0 1 7		soft landing spacecraft
Lane	Orbitar 2			Surveyor project
	Orbiter 3	. photography		
UF	Lunar Orbiter C	lunar photography		
GS	artificial satellites	RT astronomical photography	lunar p	rograms
ao			GS.	programs
	. lunar satellites	black and white photography	ao	
	Lunar Orbiter	infrared photography		. lunar programs
	Lunar Orbiter 3	moon		Apollo project
	lunar spacecraft			Surveyor project
		Ranger project	RT	Lunar Prospector
	. lunar satellites	spaceborne photography	пі	Luliai Fiospecioi
	Lunar Orbiter			
	Lunar Orbiter 3	lunar probas	Luman P	Dun
	Luliai Olbitei 3	lunar probes		Prospector
		DEF Probes for exploring and reporting on	(add	led February 1998)
Lunar	Orbiter 4	conditions on or about the Moon.	GS	artificial satellites
UF	Lunar Orbiter D	GS lunar spacecraft	0.0	. lunar satellites
GS	artificial satellites			
GS		. lunar probes		Lunar Prospector
	. lunar satellites	Lunik lunar probes		lunar spacecraft
	Lunar Orbiter	Lunik 2 lunar probe		. lunar satellites
	Lunar Orbiter 4			
		Lunik 3 lunar probe		Lunar Prospector
	lunar spacecraft	Lunik 9 lunar probe	RT	lunar composition
	. lunar satellites	Lunik 10 lunar probe		lunar exploration
	Lunar Orbiter	·		
		Lunik 11 lunar probe		lunar programs
	Lunar Orbiter 4	Lunik 12 lunar probe		lunar resources
		Lunik 13 lunar probe		lunar surface
Lunar	Orbiter 5	Lunik 14 lunar probe		idilai Sallacc
UF	Lunar Orbiter E	·		
		Lunik 16 lunar probe	lunar ra	adar echoes
GS	artificial satellites	Lunik 17 lunar probe		
	. lunar satellites	Lunik 19 lunar probe	UF	lunar scattering
	Lunar Orbiter	·	GS	echoes
		Lunik 20 lunar probe		. lunar echoes
	Lunar Orbiter 5	Lunik 22 lunar probe		lunar radar echoes
	lunar spacecraft	Ranger lunar probes		
	. lunar satellites	Ranger 1 lunar probe		. radar echoes
	Lunar Orbiter			lunar radar echoes
		Ranger 2 lunar probe	RT	selenology
	Lunar Orbiter 5	Ranger 3 lunar probe	пі	selendiogy
		Ranger 4 lunar probe		
Lunar (	Orbiter A		luman na	adiation
	Lunar Orbiter 1	Ranger 5 lunar probe		
USE	Lunai Oibilei I	Ranger 6 lunar probe	GS	extraterrestrial radiation
		Ranger 7 lunar probe		. lunar radiation
Lunar (	Orbiter B	Ranger 8 lunar probe	RT ~	∞ radiation
USE	Lunar Orbiter 2		111 *	
		Ranger 9 lunar probe		selenology
Lunari	Orbiter C	Ranger lunar landing vehicles		
		Surveyor lunar probes		6 4
USE	Lunar Orbiter 3		iunar ra	angefinding
		Surveyor 1 lunar probe	UF	LLR (ranging)
l unar i	Orbiter D	Surveyor 2 lunar probe		lunar laser ranging
		Surveyor 3 lunar probe	00	
USE	Lunar Orbiter 4		GS	rangefinding
		Surveyor 4 lunar probe		. lunar rangefinding
Lunar (	Orbiter E	Surveyor 5 lunar probe	RT	distance measuring equipment
		Surveyor 6 lunar probe	111	
USE	Lunar Orbiter 5			laser range finders
		Surveyor 7 lunar probe		laser ranging
lunar c	orbits	unmanned spacecraft		measuring instruments
UF	evection	. space probes		optical range finders
GS	orbits	lunar probes		range finders
	. lunar orbits	Lunik lunar probes		
RT	artificial satellites	Lunik 2 Iunar probe		
			lunar ra	ays
	circular orbits	Lunik 3 lunar probe	SN	
	circumlunar trajectories	Lunik 9 lunar probe		(EXCLUDES RADIATION)
	cislunar space	Lunik 10 lunar probe	RT	meteorite craters
				moon
	command service modules	Lunik 11 lunar probe	~	∞ rays
	Earth orbits	Lunik 12 lunar probe		
	Earth-Moon trajectories	Lunik 13 lunar probe		selenography
	elliptical orbits	Lunik 14 lunar probe		
				and the fall of
			lunar re	eceiving laboratory
	equatorial orbits	Lunik 16 lunar probe	iuiiai ie	eceiving laboratory
	equatorial orbits Lissajous figures moon	Lunik 16 lunar probe Lunik 17 lunar probe Lunik 19 lunar probe		laboratories . lunar laboratories

	lunar receiving laboratory	Lunar Orbiter 5	Ranger 8 lunar probe
		Lunar Prospector	Ranger 9 lunar probe
lunar r	esources	orbiting lunar stations	Ranger lunar landing vehicles
	led August 1990)	RT maneuverable spacecraft	Surveyor lunar probes
GS	resources	manned spacecraft	Surveyor 1 lunar probe
	. extraterrestrial resources	perilunes	Surveyor 2 lunar probe
ОТ	. lunar resources	polar orbits	Surveyor 3 lunar probe
RT	in situ resource utilization	unmanned spacecraft	Surveyor 4 lunar probe
	lunar excavation equipment	lunar coattarina	Surveyor 5 lunar probe
	lunar exploration lunar mining	lunar scattering USE diffuse radiation	Surveyor 6 lunar probe Surveyor 7 lunar probe
	Lunar Prospector	lunar radar echoes	Surveyor 7 lunar probe . lunar satellites
	lunar rocks	Tariai Tadai Odilooo	Explorer 18 satellite
	lunar soil	lunar seismographs	Explorer 28 satellite
	lunar surface	GS measuring instruments	IMP
		. vibration meters	Lunar Orbiter
	etroreflectors	seismographs	Lunar Orbiter 1
GS	lunar based equipment	lunar seismographs	Lunar Orbiter 2
ОТ	. lunar retroreflectors	recording instruments	Lunar Orbiter 3
RT	Apollo Lunar Surface Experiments	. seismographs	Lunar Orbiter 4
	Package Earth-Moon system	<b>lunar seismographs</b> RT lunar geology	Lunar Orbiter 5
	geodesy	selenology	Lunar Prospector
	laser range finders	scienology	orbiting lunar stations . Crew Exploration Vehicle
	retroreflection	lunar shadow	RT Apollo 5 flight
	U.S.S.R. space program	GS shadows	Apollo 6 flight
	overen in apartic programs	. lunar shadow	artificial satellites
lunar r	ocks	RT eclipses	Clementine spacecraft
GS	rocks	moon	Halo Orbit space station
	. lunar rocks	selenology	manned spacecraft
	kreep	solar eclipses	rendezvous spacecraft
RT	gabbro		space capsules
	impact melts	lunar shelters	∞ spacecraft
	lunar maria	GS shelters	Surveyor project
	lunar mining	. <b>lunar shelters</b> RT inflatable structures	unmanned spacecraft
	lunar resources	life support systems	lunar auda a
	particle tracks pre-Imbrian period	lunar based equipment	lunar surface
	regolith	lunar construction equipment	GS satellite surfaces
	selenography	space colonies	. <b>lunar surface</b> RT Clementine spacecraft
	selenology	survival	Lunar Prospector
	,	∞ tunnels	lunar resources
lunar r	otation		selenology
GS	gyration	lunar soil	surface layers
	. rotation	GS soils	surface properties
	lunar rotation	. lunar soil	∞ surfaces
	rotating bodies	lunar dust	
	lunar rotation	RT kreep	Lunar Surface Scientific Modules
RT	center of gravity	lunar mining	USE LSSM
	selenology	lunar resources	
	spin dynamics	minerals	lunar surface vehicles
lunar r	oving vehicles	moon penetrometers	GS surface vehicles
UF	LRV (vehicle)	selenology	. <b>lunar surface vehicles</b> lunar mobile laboratories
GS	surface vehicles	space weathering	lunar roving vehicles
ao	. lunar surface vehicles	opass weathering	Lunokhod lunar roving vehicles
	lunar roving vehicles	lunar spacecraft	manned lunar surface vehicles
	Lunokhod lunar roving vehicles	GS lunar spacecraft	RT crawler tractors
	manned lunar surface vehicles	. Apollo spacecraft	lunar based equipment
	. roving vehicles	Apollo lunar experiment module	lunar construction equipment
	lunar roving vehicles	. lunar landing modules	lunar excavation equipment
	Lunokhod lunar roving vehicles	Lunar Module	∞ surfaces
	manned lunar surface vehicles	Apollo lunar experiment module	∞ vehicles
RT	research vehicles	LSSM	walking machines
•	∞ vehicles	Lunar Module 5 Lunar Module 7	longer terms and the
lunar s	atellites	Altair Lunar Lander	lunar temperature GS temperature
GS	artificial satellites	. lunar probes	. lunar temperature
ao	. lunar satellites	Lunik lunar probes	RT high temperature environments
	Explorer 18 satellite	Lunik 2 lunar probe	low temperature environments
	Explorer 28 satellite	Lunik 3 lunar probe	moon
	IMP	Lunik 9 lunar probe	selenology
	Lunar Orbiter	Lunik 10 lunar probe	37
	Lunar Orbiter 1	Lunik 11 lunar probe	lunar tides
	Lunar Orbiter 2	Lunik 12 lunar probe	DEF The parts of tides caused solely by the
	Lunar Orbiter 3	Lunik 13 lunar probe	tide producing force of the moon.
	Lunar Orbiter 4	Lunik 14 lunar probe	GS lunar effects
	Lunar Orbiter 5	Lunik 16 lunar probe	. lunar tides
	Lunar Prospector	Lunik 17 lunar probe	tides
	orbiting lunar stations	Lunik 19 lunar probe	. lunar tides
	lunar spacecraft . lunar satellites	Lunik 20 lunar probe Lunik 22 lunar probe	RT atmospheric tides
	Explorer 18 satellite	Ranger lunar probes	Earth tides moonguakes
	. Explorer 28 satellite	Ranger It lunar probe	selenology
	IMP	Ranger 1 lunar probe	Sciendiogy
	Lunar Orbiter	Ranger 3 lunar probe	lunar topography
	Lunar Orbiter 1	Ranger 4 lunar probe	GS topography
	Lunar Orbiter 2	Ranger 5 lunar probe	. lunar topography
	Lunar Orbiter 3	Ranger 6 lunar probe	RT moon
	Lunar Orbiter 4	Ranger 7 lunar probe	selenography

#### **lunar trajectories**

ĞS

RT

lungs

selenology Soviet spacecraft . . . Lunik lunar probes surface properties . Lunik lunar probes . . . . Lunik 17 lunar probe surface roughness Lunik 10 lunar probe Lunik 19 lunar probe unmanned spacecraft lunar spacecraft lunar trajectories . space probes GS GS trajectories . lunar probes . . lunar probes . . Lunik lunar probes . spacecraft trajectories . . . Lunik lunar probes Lunik 19 lunar probe . lunar trajectories . . . . Lunik 10 lunar probe . . . circumlunar trajectories Soviet spacecraft ... Earth-Moon trajectories Lunik 11 lunar probe . Lunik lunar probes . . moon-Earth trajectories GS lunar spacecraft Lunik 19 lunar probe parking orbits . lunar probes unmanned spacecraft transfer orbits . . Lunik lunar probes . space probes . Lunik 11 lunar probe . . lunar probes lunation Soviet spacecraft . . . Lunik lunar probes USE month . Lunik lunar probes Lunik 19 lunar probe . Lunik 11 lunar probe RT U.S.S.R. space program luneberg lenses unmanned spacecraft Lunik 20 lunar probe USE radar corner reflectors . space probes GS lunar spacecraft . . lunar probes . . . Lunik lunar probes lung morphology . lunar probes . . Lunik lunar probes morphology . . . Lunik 11 lunar probe lung morphology . Lunik 20 lunar probe alveoli Soviet spacecraft Lunik 12 lunar probe pulmonary lesions . Lunik lunar probes GS lunar spacecraft respiratory diseases Lunik 20 lunar probe . lunar probes . . Lunik lunar probes unmanned spacecraft Lunik 12 lunar probe . space probes anatomy . . lunar probes Soviet spacecraft . respiratory system . Lunik lunar probes ... Lunik lunar probes ... lungs .... Lunik 20 lunar probe . Lunik 12 lunar probe . . alveoli unmanned spacecraft RT alveolar air . space probes Lunik 22 lunar probe atelectasis GS lunar spacecraft . . lunar probes bronchi . . . Lunik lunar probes . lunar probes pleurae . . Lunik lunar probes Lunik 12 lunar probe pneumography . . Lunik 22 lunar probe pneumothorax Soviet spacecraft Lunik 13 lunar probe pulmonary circulation GS lunar spacecraft . Lunik lunar probes pulmonary functions . Lunik 22 lunar probe . lunar probes pulmonary lesions . . Lunik lunar probes unmanned spacecraft spirometers . space probes . . Lunik 13 lunar probe Soviet spacecraft . . lunar probes Lunik 2 lunar probe . . . Lunik lunar probes . Lunik lunar probes GS lunar spacecraft Lunik 22 lunar probe Lunik 13 lunar probe . lunar probes RT U.S.S.R. space program unmanned spacecraft . . Lunik lunar probes space probes . . Lunik 2 lunar probe Lunik lunar probes . . lunar probes Soviet spacecraft . . . Lunik lunar probes . Lunik lunar probes .... Lunik 13 lunar probe . Lunik 2 lunar probe the Moon. Used for LUNA lunar probes. unmanned spacecraft LUNA lunar probes Lunik 14 lunar probe space probes lunar spacecraft GS lunar spacecraft . lunar probes . . lunar probes . lunar probes . . . Lunik lunar probes . . Lunik lunar probes .... Lunik 2 lunar probe . . . Lunik 2 lunar probe Lunik 14 lunar probe . . . Lunik 3 lunar probe Soviet spacecraft Lunik 3 lunar probe Lunik 9 lunar probe . Lunik lunar probes Lunik 10 lunar probe GS lunar spacecraft Lunik 14 lunar probe . lunar probes unmanned spacecraft Lunik 11 lunar probe . . Lunik lunar probes Lunik 12 lunar probe . space probes Lunik 13 lunar probe . . lunar probes Lunik 14 lunar probe Soviet spacecraft . . . Lunik lunar probes . Lunik lunar probes .... Lunik 14 lunar probe Lunik 16 lunar probe . Lunik 3 lunar probe . . . Lunik 17 lunar probe Lunik 19 lunar probe unmanned spacecraft Lunik 16 lunar probe . space probes GS lunar spacecraft Lunik 20 lunar probe . . lunar probes Lunik 22 lunar probe . lunar probes . . . Lunik lunar probes . . Lunik lunar probes Soviet spacecraft . . . . Lunik 3 lunar probe Lunik 16 lunar probe . Lunik lunar probes Soviet spacecraft . . Lunik 2 lunar probe Lunik 9 lunar probe Lunik 3 lunar probe . Lunik lunar probes GS lunar spacecraft Lunik 16 lunar probe . . Lunik 9 lunar probe unmanned spacecraft . . Lunik 10 lunar probe . lunar probes . . Lunik lunar probes . . Lunik 11 lunar probe . space probes ... Lunik 9 lunar probe . . lunar probes . . Lunik 12 lunar probe Soviet spacecraft . . . Lunik lunar probes . . Lunik 13 lunar probe . . Lunik 14 lunar probe . Lunik lunar probes Lunik 16 lunar probe ... Lunik 9 lunar probe . . Lunik 16 lunar probe . . Lunik 17 lunar probe unmanned spacecraft Lunik 17 lunar probe space probes

Lunik 10 lunar probe lunar spacecraft

. lunar probes

. . lunar probes

- . . Lunik lunar probes

. . . Lunik lunar probes

. . . . Lunik 9 lunar probe

... Lunik 10 lunar probe

lunar spacecraft

. lunar probes

. . Lunik lunar probes

. . Lunik 17 lunar probe

Soviet spacecraft

. Lunik lunar probes

Lunik 17 lunar probe

unmanned spacecraft . space probes

. . lunar probes

DEF Russian term for a space probe launched to the moon's vicinity or to impact on

. . Lunik 19 lunar probe

. . Lunik 20 lunar probe

. Lunik 22 lunar probe

unmanned spacecraft

. space probes

. . lunar probes

... Lunik lunar probes . . . . Lunik 2 lunar probe

. . . . Lunik 3 lunar probe

. . . . Lunik 9 lunar probe

. . . . Lunik 10 lunar probe . . . . Lunik 11 lunar probe . . . Lunik 12 lunar probe . . Lunik 13 lunar probe . . . . Lunik 14 lunar probe . . . . Lunik 16 lunar probe . . . . Lunik 17 lunar probe . . . . Lunik 19 lunar probe . . . . Lunik 20 lunar probe . . Lunik 22 lunar probe Lunokhod lunar roving vehicles U.S.S.R. space program Lunokhod lunar roving vehicles GS surface vehicles . lunar surface vehicles

- . . lunar roving vehicles
- . Lunokhod lunar roving vehicles
- . roving vehicles
- . . lunar roving vehicles
- . Lunokhod lunar roving vehicles

Lunik lunar probes

Marsokhod Mars roving vehicles

U.S.S.R. space program

∞ vehicles

#### luster

The appearance characteristic of a specimen due to pronounced changes in intensity of light reflected from elemental areas of the specimen when the angle of illumination or view is changed. Used for dullness.

dullness RT brightness finishes glare reflectance

#### lutetium

chemical elements GS

- . nuclides
- . . isotopes
- . . . lutetium
- . . . . lutetium isotopes
- . rare earth elements
- . . lutetium

. lutetium isotopes

metals

- . rare earth elements
- . . lutetium
- ... lutetium isotopes

lutetium 176

USE lutetium isotopes

# lutetium compounds

GS rare earth compounds

. lutetium compounds

RT ∞ chemical compounds

∞ metal compounds

#### lutetium isotopes

lutetium 176

GS chemical elements

- . nuclides
- . . isotopes
- . . . lutetium
- . . . . lutetium isotopes
- . rare earth elements
- . . lutetium
- ... lutetium isotopes

metals

- . rare earth elements
- . . lutetium
- ... lutetium isotopes

#### Luxembourg

nations

Luxembourg

Europe

Luxembourg space program

#### Luxembourg effect

RT ∞ effects

ionospheric cross modulation ionospheric propagation

# Luxembourg space program (added March 1989)

GS programs

. space programs

. . European space programs

Luxembourg space program

RT Luxemboura

Lyapunov functions

USE Liapunov functions

Lybia

USE Libya

# Lyman alpha radiation

DEF The radiation emitted by hydrogen at 1216 angstrom, first observed in the solar spectrum by rocket borne spectrographs. Lyman alpha is very important in the heating of the upper atmosphere thus affecting other atmospheric phenomena.

electromagnetic radiation

- . ultraviolet radiation
- . . far ultraviolet radiation
- . . Lyman alpha radiation

atomic spectra

extraterrestrial radiation

polarized electromagnetic radiation

∞ radiation

ultraviolet astronomy

#### Lyman beta radiation

electromagnetic radiation

- . ultraviolet radiation
- . . far ultraviolet radiation
- . . Lyman beta radiation

atomic spectra

extraterrestrial radiation

polarized electromagnetic radiation

∞ radiation

ultraviolet astronomy

# Lyman spectra

GS spectra

- . radiation spectra
- . electromagnetic spectra
- . . . line spectra

# ... Lyman spectra

atomic spectra

electronic spectra

emission spectra H lines

solar spectra

spectral theory

ultraviolet spectra

#### lymph

body fluids ĞS

lymph

lymphatic system

lymphocytes

lymph nodes

. (added February 2002)

USE lymphatic system

# lymphatic system

(added February 2002)

A major component of the immune system consisting of a network of vessels, organs, and nodes that collect and filter lymph from body tissues and return it to the bloodstream.

UF lymph nodes

lymphoid system

GS anatomy

. immune systems

... lymphatic system

... spleen

thymus gland antibodies

bone marrow immunology

lymph lymphocytes metastasis

#### lymphocytes

GS cells (biology)

- . blood cells
- . leukocytes
- . lymphocytes

blood cell count

immune systems lymph lymphatic system

lymphoid system

(added February 2002) USE lymphatic system

lyophilization

USE colloiding

lyophils

USE colloids

#### Lyra constellation

constellations

. Lyra constellation celestial bodies celestial sphere

# **Ivsergine**

GS bases (chemical)

- . alkaloids

. . lysergine nitrogen compounds . alkaloids

. lysergine organic compounds

- . cyclic compounds . . heterocyclic compounds
- . . . alkaloids . . . . lysergine

# lysimeters

RT

Instruments for measuring the water percolating through soils and determining the materials dissolved by the water.

GS measuring instruments

. lysimeters

ground water moisture content

percolation

soil moisture soils

water balance water pollution

lysine GS

acids

. amino acids

.. lysine

. carboxylic acids . . lysiné

organic compounds

. amino acids . . lysine

. carboxylic acids

. lysine digesting lysogenesis

Lysithea

(added January 1996) A natural satellite of Jupiter orbiting at

a mean distance of 11,720,000 kilometers. GS celestial bodies

. . Jupiter satellites

. natural satellites

Lysithea RT Jupiter (planet)

# lysogenesis

disintegration lysine

#### Ivsosomes

organelles GS

. lysosomes cells (biology)

cytology enzyme activity lysozyme

# lysozyme

lysozyme
GS biopolymers
. proteins
. . enzymes

... **lysozyme** body fluids lysosomes

LZEEBE satellite

UF Earth Energy Budget Experiment
Long Term Zonal Earth Energy
Experiment

Zonal Earth Energy Budget Experiment GS artificial satellites . scientific satellites
. . LZEEBE satellite

M regio		RT	Minuteman ICBM		hypersonic shock
GS	regions				sound waves
	. M region	M-57 e			supersonic flight
RT	geomagnetism	GS	engines		supersonic flow
	solar atmosphere		. rocket engines		supersonics
	solar corpuscular radiation		solid propellant rocket engines		
	solar wind		M-57 engine		ertia principle
		RT	Minuteman ICBM	GS	inertia
M stars			•		. inertia principle
GS	celestial bodies	M-100			Mach inertia principle
	. stars	GS	9	RT	equations of motion
	late stars		. rocket engines		moments of inertia
	cool stars		M-100 engine		
	M stars	MA 0 -		Mach n	
	Van Biesbroeck star	MA-2 e			A number expressing the ratio of the
RT	asymptotic giant branch stars	GS	engines		of a body or a point on a body with
	flare stars		. rocket engines		to the surrounding air or other fluid, or
	giant stars		booster rocket engines		ed of a flow, to the speed of sound in the
	main sequence stars		MA-2 engine		; the speed represented by this number.
	Mira variables		liquid propellant rocket engines		r critical Mach number and Glauert co-
	red giant stars	DT	MA-2 engine	efficient.	
	S stars	RI	Atlas ICBM	UF	critical Mach number
	subgiant stars		Vernier engines		Glauert coefficient
	supergiant stars	144.0	nicalan	GS	dimensionless numbers
	symbiotic stars	MA-2 n			. Mach number
		USE	Mercury MA-2 flight		ratios
M wing:	S	MAGA			. Mach number
USE	variable sweep wings	MA-3 e		RT	acoustic velocity
		GS	engines		aerodynamics
M-1 en	gine		. rocket engines		airspeed
UF	AJ-1000 engine		booster rocket engines		shock waves
GS	engines		MA-3 engine		superharmonics
	. rocket engines		liquid propellant rocket engines		sweep angle
	booster rocket engines		MA-3 engine		3
	M-1 engine	RT	Atlas ICBM	Mach re	eflection
	liquid propellant rocket engines		Vernier engines	DEF	The reflection of a shock wave from a
	hydrogen oxygen engines	444.0.6			all in which the shock strength of the
	M-1 engine	MA-3 fi			d wave and the angle of reflection both
RT	Nova launch vehicles	USE	Mercury MA-3 flight		e smaller of the two values theoretically
	Saturn 1 launch vehicles	111 1 5	liabt	possible	
	Saturn 1B launch vehicles	MA-4 f			reflection
	Catalii 12 Idailoli Vollioloo	USE	Mercury MA-4 flight	0.0	. wave reflection
M-2 lift	ing body	MA-5 e	naino		Mach reflection
	lifting bodies		engines	RT	shock waves
	. lifting reentry vehicles	ao	rocket engines		
	M-2 lifting body		booster rocket engines	machine	e aided indexing
	M-2F2 lifting body		MA-5 engine		ed April 2000)
	reentry vehicles				indexing (information science)
	. maneuverable reentry bodies		liquid propellant rocket engines	002	aoxg (aaaaaa.
	lifting reentry vehicles	ОТ	MA-5 engine	machin	e learning
	M-2 lifting body	RT	Atlas launch vehicles		ed May 1989)
	M-2F2 lifting body		Atlas SLV-3 launch vehicle	UF	learning machines
	IVI-ZI Z IIItilig body		Vernier engines	RT	adaptive control
M-2F2 I	ifting body	144 5 4	U-L4		artificial intelligence
	lifting bodies	MA-5 fi			automata theory
ao	. lifting reentry vehicles	USE	Mercury MA-5 flight		backpropagation (artificial intelligence)
	M-2 lifting body	MA 0 f	liabt		cybernetics
	M-2F2 lifting body	MA-8 fi USE			data mining
	reentry vehicles	USE	Mercury MA-8 flight		feedback control
	. maneuverable reentry bodies	MA-9 fi	light		
	•	USE	Mercury MA-9 flight	_	genetic algorithms
	lifting reentry vehicles	002	mercury ma 5 mgm		machinery
	M-2 lifting body M-2F2 lifting body	maars			membership functions self organizing systems
	W-2F2 Inting body	USE	craters		0 0,
MAESI	ifting body	OOL	Ciaters		teaching machines
	ifting body	Mace r	nissiles	machine	lifo
us	lifting bodies		missiles	USE	service life
	. M-2F3 lifting body	GO	. surface to surface missiles	USL	Service ine
M-46 eı	agino		Mace missiles	maahin	a arianted languages
	engines	RT	booster rocket engines		e oriented languages languages
do	. rocket engines		J-33 engine	do	. programming languages
	solid propellant rocket engines		solid propellant rocket engines		. machine oriented languages
			turbojet engines	RT	5 5
рт	M-46 engine		turbojet erigiries	R I	ALGOL
RT	Falcon missile	Mach o	rones		Assembly language
M-55 eı	naine		The cone shaped shock waves theo-		autocoders
GS			emanating from an infinitesimally small		language programming
GS	8		moving at supersonic speed through a		PL/1
	. rocket engines		edium. It is the locus of the Mach lines.	machin:	rocognition
	booster rocket engines				e recognition
	M-55 engine		ne shaped shock waves generated by a	USE	artificial intelligence
	solid propellant rocket engines		pointed body, as at the nose of a high	ma a - !- !	actorage
	M-55 engine	speed			e storage
RT	Minuteman ICBM	GS	cones	USE	computer storage devices
NA 50			. Mach cones		core storage
M-56 eı	•		elastic waves		
GS	engines		. shock waves	machin	
	. rocket engines		Mach cones	GS	
	solid propellant rocket engines	RT	acoustic velocity		machine tools
	M-56 engine		bow waves		boring machines

	grinding machines	cutting	statistical mechanics
	lathes	drilling	macular vision
	turret lathes milling machines	finishes forming techniques	USE <b>vision</b>
	shapers	grinding (material removal)	002 1100
RT	cutters	grooving	Madagascar
	dies	knurling	(added September 1993)
	drills	laser cutting	UF <i>Malagasy Republic</i> GS landforms
00	machinery	machine tools	. islands
	machining mandrels	metal cutting metal working	Madagascar
	mechanical devices	planing	nations
	mechanical engineering	residual stress	. Madagascar
	metal cutting	setups	RT Africa
	numerical control	surface finishing	Indian Ocean
	presses	surface roughness	Madden-Julian Oscillation
	punches saws	tooling V grooves	(added September 2000)
	shears	v grooves	DEF The most dominant and coherent com-
	taps	MACHOs (astronomy)	ponent of the intraseasonal variability in the
	ultrasonic cleaning	(added November 1999)	tropical atmosphere; characterized by a strong
		USE massive compact halo objects	eastward propagation of atmospheric features, with a typical period of 30-60 days. The Madden-
	e translation	Mach-Zehnder interferometers	Julian Oscillation (MJO) may influence the tropi-
GS	linguistics . machine translation	GS measuring instruments	cal climate and its short-term variability by
	translating	. interferometers	modulating the timing and strength of El Nino -
	. machine translation	Mach-Zehnder interferometers	Southern Oscillation (ENSO) events, contribut-
RT	computer programs	RT aerodynamics	ing to the mean heat budget of the western
	information theory	argon lasers	Pacific, and regulating the annual cycle of the tropical western Pacific, especially the Austra-
	language programming	carbon dioxide lasers	lian summer monsoon.
	languages	diffractometers gas lasers	UF <i>MJO</i> (meteorology)
	natural language processing	goniometers	GS oscillations
machine	e vision	optical equipment	. Madden-Julian Oscillation
	computer vision	optical measuring instruments	variations
	•	Schlieren photography	. periodic variations
	e-independent programs	Magintash DC	intraseasonal variations Madden-Julian Oscillation
GS	computer programs	Macintosh PC USE Macintosh personal computers	RT air water interactions
DT	. machine-independent programs	03L Macintosii personal computers	annual variations
RT	computer programming computers	Macintosh personal computers	atmospheric circulation
	multiprogramming	(added September 1992)	atmospheric models
	manuprogramming	UF Macintosh PC	climatology
∞ machin	ery	GS data processing equipment	el Nino
SN	(USE OF A MORE SPECIFIC TERM IS	. computers digital computers	monsoons Southern Oscillation
	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)	microcomputers	tropical meteorology
RT	boring machines	personal computers	zonal flow (meteorology)
	computers	Macintosh personal	
	drafting machines	computers	Maffei galaxies
	engines	RT computer graphics	GS celestial bodies
	fatigue testing machines grinding machines	computer programs	. galaxies <b>Maffei galaxies</b>
	ground effect machines	MacLaurin series	RT nebulae
	impact testing machines	UF McLaurin series	radio astronomy
	levers	GS analysis (mathematics)	radio galaxies
	load testing machines	. calculus	radio sources (astronomy)
	machine learning	series (mathematics)	spiral galaxies
	machine tools mechanical engineering	power series	magazines (supply chambers)
~	• mechanism	Taylor series MacLaurin series	RT ammunition
	mechanization	. real variables	photographic film
	milling machines	series (mathematics)	spools
	positioning devices (machinery)	power series	Magdalana Causa Vallay (Calambia)
	refrigerating machinery	Taylor series	Magdalena-Cauca Valley (Colombia) GS landforms
00	orotating electrical machines	MacLaurin series	. Magdalena-Cauca Valley
	self focusing teaching machines	macroclimate	(Colombia)
	tide powered machines	USE climate	valleys
	tools	ool omnate	. Magdalena-Cauca Valley
	turbomachinery	macromolecules	(Colombia)
	Turing machines	(added March 1990)	RT Colombia South America
	vibration simulators	GS molecules	South America
	walking machines waterwave powered machines	. <b>macromolecules</b> dendrimers	Magellan Mission (ESA)
	welding machines	RT molecular chains	USE Magellan ultraviolet astronomy
	windmills (windpowered machines)	molecular structure	satellite
		molecular weight	Magellan project (NASA)
machin	•	∞ polymers	SN (DOES NOT INCLUDE THE MAGELLAN
UF	material removal (machining)	proteins	ÚLTRAVIOLET ASTRONOMY SATELLITE)
GS	machining	macronhages	DEF A Venus exploratory mission to acquire
	. chemical machining electrochemical machining	macrophages GS cells (biology)	radar imagery and topographic profiles of the planet surface and determine the characteristics
	. hot machining	. macrophages	of the Venusian gravity field. (This term is used
	. laser machining	RT tissues (biology)	to designate general project reviews, chronolo-
		,	
	. micromachining		gies, and project management and planning.)
	. milling (machining)	macroscopic equations	Used for Venus Radar Mapper Project.
	. milling (machining) . spark machining	RT ∞ equations	Used for Venus Radar Mapper Project. UF Venus Radar Mapper Project
DT .	. milling (machining)		Used for Venus Radar Mapper Project.

- . . 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)

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) artificial satellites

GS

- . 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

#### magma

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 GS

- magnesium
- . . magnesium isotopes metals

. magnesium

. . magnesium isotopes

#### magnesium alloys

GS

alloys . light alloys

. magnesium alloys aluminum-lithium alloys bismuth alloys

lithium alloys silicon alloys

# magnesium bromides

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.

GS 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 oxides
  - . akermanite . . . . periclase
  - magnesium compounds . magnesium oxides
  - . . akermanite . . periclase

magnesium perchlorates

- halogen compounds . chlorine compounds . . perchlorates
- . magnesium perchlorates magnesium compounds
- . magnesium perchlorates

# magnesium sulfates

GS magnesium compounds

. . hexahedrite

. magnesium sulfates

- sulfur compounds
- .. magnesium sulfates

. 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. GS celestial bodies

. 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 RT magnet coils saturable reactors transformers

#### magnetic clouds

ĞS magnetic fields magnetic clouds particles

. charged particles

. . plasma clouds

#### . magnetic clouds

 $RT \infty clouds$ 

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 upon an element that senses the Earth's magupon 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

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 transformers

# magnetic damping

(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)

GS 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

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
UF geomagnetic effects
GS magnetic properties

- . magnetic effects
  . magnetic damping
  . magnetic rigidity

RT ∞ effects

flux transfer events geomagnetism magnetoactivity plasma compression quantum Hall effect temperature effects

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

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 poloidal flux

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

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 neu-tral 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

- . 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

coatings GS

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. 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) DEF The magnetic force exerted on an

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.

ÜF 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

#### magnetic islands

RT coupling coefficients flux (rate) inductance ∞ induction induction heating

magnetic induction probes USE magnetic probes

### magnetic islands

(added October 1994)

magnetic field configurations

magnetic field configuration magnetic field configuration magnetic islands coalescing collisionless plasmas current sheets

geomagnetic tail

magnetic field reconnection

#### magnetic lenses

quadrupole lenses

GS lenses

. magnetic lenses cathode ray tubes

RT electron beams

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

electric moments

Langevin formula

quenching (atomic physics)

# magnetic monopoles

GS

monopoles
. 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

GS 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

- diamagnetismferrimagnetismgeomagnetismgyromagnetism

- . gyrofrequency . magnetic effects . magnetic damping

- . . magnetic rigidity . magnetic induction
- . magnetic moments . 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 ∞ 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

# ∞ pumping

magnetic recording magnetic tape recorders

recording

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

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

.. 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

magnetotelluric profiling

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

switching ĞS

. 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

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

## magnetoacoustic waves

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 GS

. 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 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 Hartmann flow

Kelvin-Helmholtz instability

line current magnetohydrodynamic simulation magnetohydrodynamics

plasma flux measurement plasma turbulence plasmas (physics)

reverse field pinch

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

RT 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 meshfree methods 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)

space plasmas strongly coupled plasmas

plasmons

thermal instability zeta pinch

#### magnetohydrodynamic turbulence

GS turbulence

#### . magnetohydrodynamic turbulence

. . plasma turbulence . Langmuir turbulence RT homogeneous turbulence isotropic turbulence

### magnetohydrodynamic 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, hydromagnetic waves, and plasma sound waves.

Alfven waves hydromagnetic waves plasma sound waves GS 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

mechanics (physics) . 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

# magnetohydrostatics

uranium plasmas

wave-particle interactions

GS mechanics (physics)

- . fluid mechanics
- . . hydromechanics
- . . . hydrostatics
- magnetohydrostatics

- . hydrostatics
- . . magnetohydrostatics

RT magnetohydrodynamic stability magnetohydrodynamics magnetoionics

plasma physics static stability

magnetoionic plasma

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 other

RT magnetic properties magnetization ∞ physics

#### magnetometers

Instruments used in the study of geomagnetism for measuring a magnetic element. Used for Gaussmeters.

Gaussmeters

measuring instruments . magnetometers GS

. 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 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

environments

Earth magnetosphere

# magnetopause

Chapman-Ferraro problem flux transfer events IMAGE satellite magnetosheath magnetospheric instability planetary magnetotails polar cusps satellite atmospheres solar wind

# magnetoplasmadynamic thrusters

(added April 2001)

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).

LFA thrusters

Lorentz force accelerator thrusters

engines

. rocket engines

. . electric rocket engines

... plasma engines

. . . magnetoplasmadynamic

#### thrusters

arc jet engines electromagnetic propulsion magnetoplasmadynamics plasma accelerators plasma propulsion spacecraft propulsion ∞ thrustors

magnetoplasmadynamics

DEF The study of the dynamics of generating electricity by passing a beam of ionized gas through a magnetic field.

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

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

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)
 ■ TERMS LISTED BELOW
 ■ TERMS LISTED BE

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

atmospheric density ionospheric electron density plasma density

## magnetospheric instability

stability

. 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)

ensity (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

564

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 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

antiferromagnetism ferrimagnetism ferromagnetism magnetization plasmons

Magnus effect RT 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

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

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

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 maintenance 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 ground crews

ground support equipment

installing logistics

logistics management lubricants

lubrication maintainability

	manuals		. malononitrile		. human-computer interface
	mechanical engineering		nitrogen compounds	RT	astronaut performance
	operating costs		. nitriles	0	automation
	reliability		malononitrile		balancing
	replacing		organic compounds		bionics
	self repairing devices		. nitriles		biotechnology
	service life		malononitrile		computer systems design
	shipyards				consoles
	shops	Malta			cybernetics
	spare parts	GS	landforms		data processing terminals
	specifications		. islands		depersonalization
			Malta		display devices
	ance training		nations	c	engineering
GS	education		. Malta		human factors engineering
	. maintenance training	RT	Mediterranean Sea		management
					mechanization
	carriers	mamma			office automation
GS	charge carriers	GS	animals		pilot induced oscillation
	. majority carriers		. vertebrates		pilot support systems
	additives		mammals		robotics
	bipolar transistors		bats	c	∘ systems
	carrier injection		bears		systems analysis
	electron mobility		cats		systems engineering
	electrons		cattle		systems management
	holes (electron deficiencies)		calves		teleoperators
	semiconductors (materials)		deer		virtual reality
			caribous		workstations
Malagas	y Republic		goats		Womenations
USE	Madagascar		horses	man or	perated propulsion systems
			marine mammals		MOPS (propulsion systems)
Malawi			dolphins	GS	propulsion
GS	nations		manatees	ao	. low thrust propulsion
	. Malawi				
RT	Africa		porpoises		man operated propulsion
	7 111000		seals (animals)	БТ	systems
Malaya			whales	RT	astronaut locomotion
-	Malaysia		moles		compressed air
002	marayora		primates		extravehicular activity
Malaysia	a		apes		gaseous rocket propellants
	Malaya		chimpanzees		manned space flight
	nations		baboons		pilot performance
do			human beings		retrorocket engines
DT	. Malaysia		monkeys	c	∘ systems
RT	Asia		rodents		-,
Maldina	lalanda		guinea pigs	man po	wered aircraft
	Islands		hamsters	DEF	
	landforms		mice		∞ aircraft
	. islands				hang gliders
	Maldive Islands		jerboas		soaring
	nations		knockout mice		ultralight aircraft
	. Maldive Islands		pocket mice		•
			rabbits	c	winged vehicles
maleate			rats		and and from a flavour
GS	esters		squirrels		nded free flyers
	. maleates		ground squirrels	,	ed July 1989)
			dogs		Intermittently manned spacecraft of
males			sheep		ns designed primarily to carry out exper
RT	adults		swine		n reduced gravity and life science re
	children		wolves		They also serve as annexes or compo
	females	RT	Earth resources	nents of	f space stations. Used for MTTF (spac
	human beings		homeotherms	station)	
	sex		mammary glands	UF	MTFF (space station)
	sex factor		manimaly glands	GS	artificial satellites
	SCA Idelei	mamma	ary glands		. space stations
malfunc	tions		anatomy		man tended free flyers
	Improper functioning of components,	40	. chest		manned spacecraft
	improper operation of a system.		breast		. man tended free flyers
	aborted missions		mammary glands		space platforms
	aircraft accidents				. man tended free flyers
			. glands (anatomy)		stations
	aircraft hazards	DT	mammary glands		. space stations
	downtime	RT	mammals		•
	errors			ОТ	man tended free flyers
	failure	man		RT	
	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		
			environment effects	manage	ement
Malkus	theory		environment management	UF	administration
	statistical mechanics		human beings	GS	management
	theories	0	o interactions		. configuration management
	uncorios		International Geosphere-Biosphere		. contract management
malleab	ility		·		. data management
			program		
GS	mechanical properties		resources		. environment management
-	malleability		achine avatama		. financial management
	ductility		achine systems		industrial management
	metal working	DEF	Systems in which the functions of the		engineering management
			d the machine are interrelated and nec-		inventory management
malonor			for the operation of the system.		inventory controls
GS	cyanides	GS	man machine systems		personnel management

. information management

. . information resources management records management quantum theory . records management ∞ systems scattering amplitude . logistics management . . inventory management management methods mandrels . . inventory controls GS management methods RTcores . matrix management Delphi method (forecasting) machine tools . procurement management pattern method (forecasting) molds . production management . probe method (forecasting) shafts (machine elements) . project management profile method (forecasting) . research management computer techniques maneuverability air slew missiles . resources management cost reduction critical path method aircraft control . . forest management decision making aircraft maneuvers . reforestation . . information resources management estimates aircraft performance controllability . . land management forecasting . . resource allocation **GFRT** flight characteristics . safety management incentives flight control . systems management flight envelopes matrix management . terminal area energy management
. total quality management methodology
 multidisciplinary research helicopter performance maneuvers spacecraft maneuvers waste management NASA Interactive Planning System operations research . water management maneuverable reentry bodies . weapon system management **PERT** retraining DEF (1) Reentry vehicles capable of per-. . waste disposal forming preplanned flight maneuvers during the Starsite program ... composting reentry phase. (2) Ballistic missil reentry ve-... hazardous material disposal (in systems management total quality management hicles whose ballistic trajectory can be adjusted space) by internal or external mechanisms, enabling .. waste treatment them to evade antiballistic defenses and or management planning . . . sewage treatment planning strike their target with a high degree of accuracy. .. waste utilization GS . management planning
. production planning GS reentry vehicles . risk management . maneuverable reentry bodies autonomy . project planning consulting cost analysis . . lifting reentry vehicles Central Électronic Management ... FDL-5 reentry vehicle System HL-10 reentry vehicle command and control ... HLD-35 reentry vehicle cost reduction contract negotiation Janus spacecraft cost analysis decision making . . . M-2 lifting body . . . . M-2F2 lifting body cost estimates development cost incentives economy . . . X-20 aircraft estimates cost reduction . . X-24 aircraft cybernetics feasibility analysis RT ∞ bodies finance decision making forecasting decisions maneuverable spacecraft **GERT** ∞ direction GS maneuverable spacecraft human resources economic analysis . aerospace planes interfaces economic factors HOPE aerospace plane evaluation life cycle costs . . HOTOL launch vehicle fiduciaries mediation VentureStar launch vehicle forecasting mission planning . . X-30 vehicle operations research **GERT** X-37 vehicle personnel management incentive techniques . X-40A vehicle incentives information flow . Apollo spacecraft program trend line analysis . Apollo lunar experiment module project management man machine systems Astro vehicle research and development marketing evasive satellites selective dissemination of information mission planning systems engineering . ferry spacecraft operations research . Janus spacecraft tradeoffs performance prediction rendezvous spacecraft value engineering personnel development X-20 aircraft prejudices artificial satellites management systems problem solving interplanetary spacecraft management systems procurement policy landing modules . flight management systems product development lunar landing modules management information systems production engineering computer techniques lunar probes progress information systems lunar satellites project planning project management manned spacecraft research projects MARS (Manned Reusable ∞ systems statistical analysis Spacecraft) systems engineering recoverable spacecraft manatees DEF Large plant eating aquatic mammals reentry vehicles management analysis space probes living in shallow tropical waters near the coasts 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 maneuvers . . . . manatees management information systems . aircraft maneuvers information systems . docking man-computer interface management information systems . evasive actions USE human-computer interface . hovering management systems management information systems . . autonomous docking Mandelstam representation computer techniques models . . offshore docking data base management systems mathematical models . . spacecraft docking . Mandelstam representation data retrieval . spacecraft maneuvers elementary particle interactions . spacecraft docking data storage inelastic scattering . orbital maneuvers

Lorentz transformations

information theory

nuclear scattering

. terrain following

data systems

information retrieval

	orbital rendezvous	. manganese alloys	RT	astronaut locomotion
	Earth orbital rendezvous	Manganin (trademark)		extravehicular activity
RT	lunar orbital rendezvous aerobatics	RT electrical resistance thermocouples		life support systems orbital servicing
	aircraft spin	thermocouples		self maneuvering units
	flight control	manifolds		space transportation system
	landing	RT air intakes		
	maneuverability	exhaust systems		Mars missions
	minor circle turning flight rendezvous	fuel systems intake systems		Any of several options for manner to Mars in which spacecraft are built for
	self maneuvering units	pipes (tubes)		llar mission. A mission is estimated by
	sideslip	plenum chambers		2020 and may last from one year to three
	takeoff	∞ tubes	years de	pending on speed and design.
	turning flight	∞ water intakes	GS	space missions
mangai	200	manifolds (mathematics)		. Mars missions manned Mars missions
GS	chemical elements	GS manifolds (mathematics)	RT	Crew Exploration Vehicle
	. manganese	. Riemann manifold		in situ resource utilization
	manganese isotopes	RT coordinates		interplanetary flight
	metals	curves (geometry)		interplanetary spacecraft
	. transition metals	fibers (mathematics) fixed points (mathematics)		long duration space flight
	manganese manganese isotopes	topology		magnetic sails manned spacecraft
RT	strategic materials			Mars (planet)
	_	manipulation		Mars exploration
mangar		USE manipulators		NASA space programs
USE	manganese isotopes	manipulators		return to Earth space flight
mangar	nese 54	SN (LIMITED TO MECHANICAL DEVICES		space exploration terraforming
	manganese isotopes	FOR REMOTE HANDLING)		terratorning
		UF manipulation GS manipulators	manned	orbital laboratories
mangar		. remote manipulator system	UF	MOL (orbital laboratories)
USE	manganese isotopes	. Space Station Mobile Servicing		MORL
mangai	nese alloys	System	GS	laboratories
GŠ	alloys	RT control equipment		. space laboratories manned orbital laboratories
	. manganese alloys	∞ effectors end effectors		Columbus module
	Manganin (trademark)	inverse kinematics		Destiny Laboratory Module
mangai	nese compounds	payload deployment & retrieval		Kibo Japanese Experiment
GS	manganese compounds	system		Module
	. manganese oxides	remote control		Skylab 1 Skylab 2
	Hopcalite (trademark)	remote handling		Skylab 3
	. manganese phosphides . permanganates	robot arms robot dynamics		Skylab 4
RT 。	∴ permanganates ∞ chemical compounds	robotics		Spacelab
	Group 7B compounds	servocontrol		manned spacecraft
0	o metal compounds	shielding		. manned orbital laboratories Columbus module
	!	tactile sensors (robotics)		Destiny Laboratory Module
GS	nese ions ions	teleoperators telerobotics		Kibo Japanese Experiment Module
ao	. metal ions	torque sensors (robotics)		Skylab 1
	manganese ions			Skylab 2
RT	permanganates	Manitoba		Skylab 3
manaa	nese isotopes	GS nations . Canada		Skylab 4 Spacelab
	manganese 53	Manitoba	RT	Apollo spacecraft
01	manganese 54	mannosa		Columbus space station
	manganese 56	Manitou (CO)		International Space Station
GS	chemical elements	GS cities		orbital workshops
	. manganese	. <b>Manitou (CO)</b> RT Colorado		reconnaissance spacecraft space stations
	manganese isotopes . nuclides	TTI Odiorado		spacecraft
	isotopes	Manned Aerodynamic Reusable Spaceship		Titan 3 launch vehicle
	manganese isotopes	USE MARS (Manned Reusable		
	metals	Spacecraft)		orbital space stations
	. transition metals	manned lunar surface vehicles	USE	space stations
	manganese isotopes	GS surface vehicles	manned	orbital telescopes
	manganese isotopes	. lunar surface vehicles	UF	MOT (orbital telescopes)
mangai	nese oxides	lunar roving vehicles	GS	telescopes
GS	chalcogenides	manned lunar surface vehicles		manned orbital telescopes
	. oxides	. roving vehicles lunar roving vehicles	RT	Apollo telescope mount OAO
	metal oxides manganese oxides	manned lunar surface vehicles	пі	OAO
	Hopcalite (trademark)	RT crawler tractors	manned	reentry
	manganese compounds	lunar logistics	GS	atmospheric entry
	manganese oxides	lunar mobile laboratories		reentry
	Hopcalite (trademark)	∞ surfaces ∞ vehicles		manned reentry
mandai	nese phosphides	walking machines		space flight . manned space flight
GS	manganese compounds	wanting madrinios		manned reentry
40	. manganese phosphides	manned maneuvering units	RT	descent trajectories
	phosphorus compounds	SN (LIMITED TO ASTRONAUT PROPULSIVE UNITS OF THAT NAME DESIGNED FOR		environmental control
	. phosphides	THE SPACE TRANSPORTATION SYSTEM		lifting reentry vehicles
	manganese phosphides	AND THE SPACE STATION) DEF A propulsive backpack device for ex-		reentry communication
Mangar	nin (trademark)	travehicular activity. It uses a low thrust, dry,		spacecraft reentry
GS	alloys	cold nitrogen propellant.	manned	space flight
	copper alloys	GS astronaut maneuvering equipment	GS	space flight
	Manganin (trademark)	. manned maneuvering units		. manned space flight

# manned space flight network

	A II		a: I I I		A II 40 II' I I
	Apollo flights		space flight stress		Apollo 10 flight
	Apollo 5 flight		space logistics		Apollo 11 flight
	Apollo 6 flight		space programs		Apollo 12 flight
	Apollo 7 flight		space psychology		Apollo 13 flight
			Space Shuttle orbiters		Apollo 14 flight
	Apollo 8 flight		space shuttles		Apollo 15 flight
	Apollo 9 flight		•		. •
	Apollo 10 flight		spacecrew transfer		Apollo 16 flight
	Apollo 11 flight		suborbital flight		Apollo 17 flight
					Apollo project
	Apollo 12 flight		d annua diinba makusub		Apollo Soyuz test project
	Apollo 13 flight		d space flight network		
	Apollo 14 flight	GS	networks		approach and landing tests (STS)
	Apollo 15 flight		. tracking networks		artificial satellites
			manned space flight network		biosatellites
	Apollo 16 flight	RT			boostglide vehicles
	Apollo 17 flight	п	Advanced Range Instrumentation		command service modules
	Gemini flights		Ship		
	Gemini 3 flight		unified S band		environmental control
	3				gravity gradient satellites
	Gemini 4 flight				interplanetary spacecraft
	Gemini 5 flight	manne	d spacecraft		landing modules
	Gemini 6 flight	GS	manned spacecraft		lifting reentry vehicles
	Gemini 7 flight		. Apollo spacecraft		
	Gemini 8 flight		Apollo lunar experiment module		lunar landing modules
					lunar satellites
	Gemini 9 flight		. Astro vehicle		lunar spacecraft
	Gemini 10 flight		. Columbus space station		maneuverable spacecraft
	Gemini 11 flight		. ferry spacecraft		manned Mars missions
	Gemini 12 flight		. Gemini B spacecraft		
	manned reentry		•		Mercury flights
			. Gemini spacecraft		Mercury project
	Mercury flights		Gemini 2 spacecraft		military spacecraft
	Mercury MA-1 flight		Gemini (GT-1) spacecraft		
	Mercury MA-2 flight		. Janus spacecraft		reconnaissance spacecraft
	, 0				recoverable spacecraft
	Mercury MA-3 flight		. Lunar Module		rendezvous spacecraft
	Mercury MA-4 flight		Apollo lunar experiment module		reusable spacecraft
	Mercury MA-5 flight		LSSM		
	Mercury MA-6 flight		Lunar Module 5		Shuttle Derived Vehicles
					space capsules
	Mercury MA-7 flight		Lunar Module 7		space navigation
	Mercury MA-8 flight		. man tended free flyers		Space Shuttle Boosters
	Mercury MA-9 flight		. manned orbital laboratories		space stations
	Mercury MR-1 flight		Columbus module		•
	Mercury MR-2 flight			٥	∘ spacecraft
			. Destiny Laboratory Module		spacecraft cabin simulators
	Mercury MR-3 flight		Kibo Japanese Experiment Module		unmanned spacecraft
	Mercury MR-4 flight		Skylab 1		X-20 aircraft
	Space Shuttle missions		Skylab 2		A-20 dilciait
	Space Shuttle mission 31-A		Skylab 3		
	Space Shuttle mission 31-B		Skylab 4		g theory
	Space Shuttle mission 31-C		Spacelab	RT	fluid flow
	Space Shuttle mission 31-D		. MARS (Manned Reusable	۰	∘ theories
	Space Shuttle mission 41-A		Spacecraft)		wall flow
	Space Shuttle mission 41-B		. Mercury spacecraft		wall now
	Space Shuttle mission 41-C		Aurora 7		
	Space Shuttle mission 41-D		Faith 7	mannit	
	Space Shuttle mission 41-G		Friendship 7	GS	organic compounds
	Space Shuttle mission 51-A		SIGMA 7		carbohydrates
					sugars
	Space Shuttle mission 51-B		. Mir space station		
	Space Shuttle mission 51-C		. orbital workshops		mannitol
	Space Shuttle mission 51-D		. Saturn workshops		
	Space Shuttle mission 51-E		Saturn 1 workshop		
				Mann-V	Vhitney-Wilcoxon U test
	Space Shuttle mission 51-F		Saturn 5 workshop		statistical analysis
	Space Shuttle mission 51-G		Skylab 1	0.0	. statistical tests
	Space Shuttle mission 51-H		Skylab 2		
	Space Shuttle mission 51-I		Skylab 3		Mann-Whitney-Wilcoxon U test
	Space Shuttle mission 51-J			RT	quality control
			Skylab 4		
	Space Shuttle mission 51-L		. Salyut space station		
	Space Shuttle mission 61-A		. Soyuz spacecraft	manom	eters
	Space Shuttle mission 61-B		. Space Operations Center (NASA)		Instruments for measuring pressure of
	Space Shuttle mission 61-C		. space shuttles		nd vapors above and below atmospheri
	Space Shuttle mission 61-E		Buran space shuttle		
ОΤ					e. Used for micromanometers and l
RT	aerospace environments		Hermes manned spaceplane	tubes.	
	Apollo extension system		Space Shuttle orbiters	UF	micromanometers
	Atlantis (orbiter)		Atlantis (orbiter)	٠.	U tubes
	Columbia (Orbiter)		Challenger (Orbiter)		
				GS	measuring instruments
	Constellation program		Columbia (Orbiter)		. pressure gages
	Crew Exploration Vehicle		Discovery (Orbiter)		manometers
	Discovery (Orbiter)		Endeavour (orbiter)	RT	barometers
	Enterprise (Orbiter)		Enterprise (Orbiter)		
	extravehicular activity				blood pressure
			. voskhod manned spacecraft		flame probes
	Gemini 2 spacecraft		Voskhod 1 spacecraft		pressure distribution
	Gemini (GT-1) spacecraft		Voskhod 2 spacecraft		pressure measurement
	Gemini B spacecraft		. Vostok spacecraft		•
					vacuum gages
	Gemini spacecraft		Vostok 1 spacecraft		
	human factors engineering		Vostok 2 spacecraft		
	Indian space program		Vostok 3 spacecraft	manpo	wer
	interplanetary flight		. Vostok 4 spacecraft	GS	manpower
				GG	
	interstellar travel		Vostok 5 spacecraft		. engineers
	intravehicular activity		Vostok 6 spacecraft		. scientists
	long duration space flight		. Altair Lunar Lander	RT	engineering management
	man operated propulsion systems		. Crew Exploration Vehicle		human resources
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GS wastes orthophotography Marecs maritime satellites				orthophotography		
	C.T.					The European Space Agency's system
RT biomass energy production photogrammetry of two satellites provides maritime com metabolic wastes photography tions links between ships and coast Ea	ΚI					
waste disposal scale (ratio) tions. Originally known as Marots, the						

operates with one satellite over the Atlantic wetlands . Mariner space probes Ocean and one over the Pacific Ocean. It was Mariner 1 space probe leased to the International Maritime Satellite marine mammals Venus probes Organization for five years. Also known as the GS animals Mariner 1 space probe . vertebrates maritime European communications satellite. unmanned spacecraft GS artificial satellites . . mammals . space probes . communication satellites . . . marine mammals . . Mariner space probes . Marecs maritime satellites . . . . dolphins Mariner 1 space probe . ESA satellites . . . . manatees . . Venus probes . . Marecs maritime satellites . . . . porpoises ... Mariner 1 space probe . maritime satellites . . . . seals (animals) . . . . whales . Marecs maritime satellites Mariner 2 space probe GS interplanetary spacecraft ESA spacecraft . ESA satellites marine meteorology . Mariner space probes . Marecs maritime satellites GS meteorology . Mariner 2 space probe European space programs . hydrometeorology RT . Venus probes satellite networks marine meteorology . . Mariner 2 space probe fronts (meteorology) unmanned spacecraft GOES 13 . space probes margins oceanography . . Mariner space probes borders RT ... Mariner 2 space probe ∞ science edges typhoons . . Venus probes rims Mariner 2 space probe wind (meteorology) Atlas Agena B launch vehicle maria marine navigation GS maria surface navigation USE Mariner 3 space probe lunar maria interplanetary spacecraft RT lava marine propulsion . Mariner space probes meteorite craters . Mariner 3 space probe GS propulsion topography . marine propulsion . Mars probes Mariner 3 space probe . . underwater propulsion marijuana . . submarine propulsion unmanned spacecraft GS drugs chemical propulsion space probes . psychotropic drugs electric propulsion . . Mariner space probes marijuana jet propulsion ... Mariner 3 space probe RT alkaloids nuclear electric propulsion . . Mars probes nuclear propulsion ... Mariner 3 space probe marine biology propeller drive The study of marine fauna and flora Savannah nuclear ship Mariner 4 space probe and related topics. GS interplanetary spacecraft . Mariner space probes RT algae marine resources aquatic plants resources GS . Mariner 4 space probe aquiculture . Earth resources . Mars probes ∞ biology . marine resources Mariner 4 space probe environment effects aquiculture unmanned spacecraft environmental quality coastal ecology . space probes fisheries fisheries . . Mariner space probes limnology oceanography oceanography phytoplankton ... Mariner 4 space probe oceans . . Mars probes sea water ... Mariner 4 space probe ∞ science shellfish sea grasses underwater resources Mariner 5 space probe seals (animals) water pollution GS interplanetary spacecraft seaweeds wetlands . Mariner space probes shellfish Mariner 5 space probe thermal pollution marine rudders . Venus probes waterfowl GS control surfaces . Mariner 5 space probe wetlands . rudders unmanned spacecraft zooplankton . marine rudders . space probes aerial rudders . . Mariner space probes marine chemistry hydrofoils Mariner 5 space probe The study of the chemical processes in tail assemblies . . Venus probes oceanic environments. Mariner 5 space probe environmental chemistry GS marine technology Atlas Agena launch vehicles . marine chemistry GS technologies biochemistry marine technology Mariner 6 space probe ∞ chemistry aquiculture interplanetary spacecraft geochemistry artificial harbors . Mariner space probes hydrology deepwater terminals Mariner 6 space probe limnology oceanography . Mars probes ocean bottom offshore docking . Mariner 6 space probe science offshore energy sources unmanned spacecraft sediments offshore platforms . space probes tanker terminals . . Mariner space probes marine environments wharves . Mariner 6 space probe environments . . Mars probes marine environments marine transportation Mariner 6 space probe aquiculture GS transportation Atlas Agena launch vehicles beaches marine transportation Mars 69 project coastal ecology air transportation deepwater terminals Mariner 7 space probe coasts environment effects harbors GS interplanetary spacecraft ice environments offshore docking . Mariner space probes . Mariner 7 space probe nearshore water rail transportation ocean models . Mars probes ships . . Mariner 7 space probe unmanned spacecraft oceanography tanker ships red tide water vehicles sea breeze . space probes shellfish Mariner 1 space probe . . Mariner space probes ... Mariner 7 space probe GS interplanetary spacecraft waterfowl

. . Mars probes

Mariner 7 space probe

Mars 69 project

#### Mariner 8 space probe

interplanetary spacecraft

- . Mariner space probes
- Mariner 8 space probe
- . 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

- 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

interplanetary spacecraft

- . Mariner space probes
- . Mariner 11 space probe
- unmanned spacecraft
- space probes
- . . Mariner space probes
- ... Mariner 11 space probe

Mariner C spacecraft
GS interplanetary spacecraft

- Mariner spacecraft
  Mariner C spacecraft
- unmanned spacecraft
- . space probes
- . . Mariner spacecraft . . . Mariner C spacecraft

## Mariner Jupiter-Saturn flyby

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

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 1994

RT Cassini mission Comet Rendezvous Asteroid Flyby Mission

flyby missions interplanetary flight

∞ spacecraft

## Mariner program

GS programs

- . 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

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

- 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
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- . space programs
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- . . . 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 commu-

- nication satellite. GS artificial satellites
  - . Marisat satellites Marisat 1 satellite

# radio communication

RT

GS

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,

#### 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
  - artificial satellites . maritime satellites

Mark 1 reentry body

ERS-1 (ESA satellite) Marecs maritime satellites

Marots (ESA)

**MSAT** National Oceanic Satellite System

# TOPEX Mark 1 reentry body

reentry vehicles

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

RT intercontinental ballistic missiles RT U.S.S.R. space program random walk intermediate range ballistic missiles Markov processes Mars 4 Spacecraft Mark 4 reentry body GS stochastic processes One of a series of Soviet unmanned reentry vehicles Markov processes spacecraft designed for Mars exploration. GS Mark 4 reentry body . Markov chains GS interplanetary spacecraft intercontinental ballistic missiles RT random processes . Mars probes zero sum games Mars 4 Spacecraft Mark 5 reentry body Soviet spacecraft markup languages . Mars 4 Spacecraft GS reentry vehicles (added June 2000) unmanned spacecraft Mark 5 reentry body USE document markup languages intercontinental ballistic missiles space probes . . Mars probes Mark 6 reentry body Mars 4 Spacecraft Earlier name for the Marecs maritime reentry vehicles U.S.S.R. space program GS satellites. Used for Maritime Communication . Mark 6 reentry body intercontinental ballistic missiles Satellite (ESA) and Maritime Orbital Test Satel-Mars 5 spacecraft lite interplanetary spacecraft GS Maritime Communication Satellite Mark 11 reentry body . Mars probes (ESA) reentry vehicles
. Mark 11 reentry body Mars 5 spacecraft GS Maritime Orbital Test Satellite Soviet spacecraft GS artificial satellites RT intercontinental ballistic missiles . Mars 5 spacecraft . communication satellites unmanned spacecraft ... Marots (ESA) Mark 12 reentry body . space probes . ESA satellites GS reentry vehicles . . Mars probes . Marots (ESA) Mark 12 reentry body Mars 5 spacecraft . maritime satellites intercontinental ballistic missiles U.S.S.R. space program . Marots (ESA) ESA spacecraft Mark 17 reentry body Mars 6 spacecraft . ESA satellites GS reentry vehicles GS interplanetary spacecraft Marots (ESA) Mark 17 reentry body . Mars probes European Space Agency intercontinental ballistic missiles . Mars 6 spacecraft Marisat satellites Soviet spacecraft rangefinding Markarian galaxies . Mars 6 spacecraft rescue operations celestial bodies unmanned spacecraft ship terminals . galaxies . space probes . . active galaxies . . Mars probes Marquardt R4D engine . . Markarian galaxies Mars 6 spacecraft GS engines
. Marquardt R4D engine Seyfert galaxies U.S.S.R. space program Apollo project markers Mars 7 spacecraft auxiliary propulsion (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS SN GS interplanetary spacecraft command modules . Mars probes LISTED BELOW) ∞ reaction control Mars 7 spacecraft beacons satellite attitude control Soviet spacecraft biomarkers spacecraft control . Mars 7 spacecraft buoys unmanned spacecraft crayons ∞ mars . space probes (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) dves SN . Mars probes radio beacons Mars 7 spacecraft runway lights RT MARS (Manned Reusable RT U.S.S.R. space program smoke Spacecraft) Mars (planet) Mars 69 project market research navigation aids GS programs GS research tracking stations . NASA programs . market research . . NASA space programs commerce Mars 1 spacecraft .. Mars 69 project commodities interplanetary spacecraft . projects consumers . Mars probes . . Mars 69 project marketing . Mars 1 spacecraft . space programs product development Soviet spacecraft . . NASA space programs . Mars 1 spacecraft . Mars 69 project marketing unmanned spacecraft RT Mariner 6 space probe RT commerce space probes Mariner 7 space probe commercialization . . Mars probes space exploration consumers Mars 1 spacecraft finance U.S.S.R. space program Mars 71 project industrial areas GS programs management Mars 2 spacecraft . NASA programs market research interplanetary spacecraft . . NASA space programs product development . Mars probes ... Mars 71 project supplying Mars 2 spacecraft . projects Soviet spacecraft . Mars 71 project marking . Mars 2 spacecraft . space programs UF labeling (marking) unmanned spacecraft . . NASA space programs tagging . space probes . Mars 71 project GS marking . . Mars probes Mariner 8 space probe isotopic labeling Mars 2 spacecraft space exploration RT detection U.S.S.R. space program identifying MARS (Manned Reusable Spacecraft) materials handling Mars 3 spacecraft (NOT RESTRICTED TO SPACECRAFT FOR FLIGHT TO PLANET MARS) Manned Aerodynamic Reusable packaging interplanetary spacecraft staining . Mars probes UF ∞ tracers Mars 3 spacecraft Spaceship Soviet spacecraft GS manned spacecraft Markov chains . Mars 3 spacecraft . MARS (Manned Reusable stochastic processes unmanned spacecraft Spacecraft) GS Markov processes . space probes reentry vehicles . recoverable spacecraft Markov chains . . Mars probes RT ... Mars 3 spacecraft . . reusable spacecraft

Monte Carlo method

#### ... MARS (Manned Reusable Spacecraft)

ferry spacecraft maneuverable spacecraft ∞ mars

## Mars (planet)

GS celestial bodies

. planets

. . terrestrial planets

... Mars (planet) 2001 Mars Odyssey

Amor asteroid

Apollo asteroids

Deimos

dust storms

extraterrestrial water manned Mars missions

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)

Mars colonies

space bases GS

. 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 Surveyor 98 Program

Mars colonies USE Mars bases

Mars craters

RT

DFF Craters from meteoritic impact on the 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)

GS 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 Orbiter Camera (MOC) (added January 2004) USE Mars Global Surveyor

Mars missions

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 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

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

∞ vehicles

# Mars sample return missions

(added March 1989)

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

Mars satellites

GS celestial bodies

space exploration

. natural satellites ... Mars satellites

... Deimos ... Phobos

Mars surface

planetary surfaces GS

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 missions like vegetation. Used for bogs, coastal marsh-RT Caribbean region Mars sample return missions lands, marshes, and swamps. Mars Surveyor 2001 Mission Maryland bogs soil sampling coastal marshlands GS nations . United States specimens marshes surfaces Maryland swamps Viking lander 1 GS Allegheny Plateau (US) land Viking lander 2 . wetlands Assateague Island (MD-VA) . marshlands Chesapeake Bay (US) Mars Surveyor 98 Lander Delmarva Peninsula (DE-MD-VA) RT bayous (added March 1999) Potomac River Valley (MD-VA-WV) Earth resources Mars Polar Lander Earth surface Susquehanna River Basin flats (landforms) (MD-NY-PA) Mars Surveyor 98 Orbiter muskegs oceanography (added March 1999) mascons USE Mars Climate Orbiter DEF Large scale, high density lunar mass tidal flats waterfowl concentrations below ringed mare. Mars Surveyor 98 Program composition (property) (added March 1999) . concentration (composition) Marsokhod Mars roving vehicles (added August 1995) DEF Mars exploration program consisting of . mascons two mission spacecraft-- the Mars Climate Orcenter of mass surface vehicles biter and the Mars Polar Lander. Two surface gravity anomalies . roving vehicles penetrating microprobes (part of the associated mass ... Mars roving vehicles
... Marsokhod Mars roving Deep Space 2 mission) for detecting water ice weight (mass) are also piggybacking on the Lander. vehicles maser materials programs RT Lunokhod lunar roving vehicles . NASA programs (added June 1989) Mars exploration . . NASA space programs RT laser materials planetary surfaces ... Mars Surveyor 98 Program masers  $\infty \ vehicles$ . space programs ∞ materials . . NASA space programs ∞ materials science . Mars Surveyor 98 Program martensite austenite Mars atmosphere maser outputs Mars Climate Orbiter hardening (materials) GS output heat treatment maser outputs Mars missions Mars Polar Lander iron alloys RT ∞ coherence martensitic stainless steels diffraction radiation Mars surface microstructure laser outputs phase transformations Mars Surveyor 2001 Mission maser pumping steels (added July 1999) pulse duration Mars exploration mission including an radiant flux density orbiter with a gamma ray spectrometer and a multispectral thermal imager, and a lander with water masers martensitic stainless steels wavelengths alloys an extensive set of instrumentation, a robotic arm, and the Marie Curie Rover. (In March 2000, . iron alloys maser pumping (added June 1989) . . steels the lander portion of the mission was cancelled; the orbiter mission was superceded by the 2001 . . . stainless steels RT laser pumping . . martensitic stainless steels maser outputs Mars Odyssey mission.) austenitic stainless steels space missions masers GS maraging steels optical pumping Mars missions martensite . Mars Surveyor 2001 Mission ∞ pumping 2001 Mars Odyssey martensitic transformation maser resonators Mars environment A phase transformation occurring in USE masers Mars surface some metals and resulting in formation of mar-Mars surface samples tensite. NASA space programs masers GS phase transformations DEF Amplifiers or oscillators utilizing the principle of microwave amplification by stimumartensitic transformation Mars volcanoes RT austenite DEF Volcanoes on the planet Mars. lated emission of radiation. maser resonators paramagnetic amplifiers GS geology . planetary geology Martian meteorites (added March 1998) . Mars volcanoes rasers USE SNC meteorites stimulated emission devices . volcanoes . Mars volcanoes . masers . . gas masers landforms Martin aircraft . volcanoes Martin aircraft . . . hydrogen masers GS . Mars volcanoes . . interstellar masers B-26 aircraft basalt . . proton masers B-57 aircraft calderas . . traveling wave masers RT ∞ aircraft cones (volcanoes) . . water masers effusives amplifiers martingales atomic clocks lava DEF In game theory, a procedure for re-couping one's losses in previous wagers by coherent electromagnetic radiation Mars (planet) Mars atmosphere cross relaxation doubling or otherwise increasing the amount diffraction radiation Mars environment Mars surface frequency standards RT decision theory mountains krypton fluoride lasers game theory orography lasers ∞ mathematics paleomagnetism maser materials probability theory petrology maser pumping stochastic processes Rouse belts microwave amplifiers molecular oscillators volcanology Martinique resonators stimulated emission marshes GS landforms USE marshlands . islands transient oscillations . . West Indies two-wavelength lasers . Martinique ultraviolet lasers

nations

. France

. . Martinique

marshlands

DEF Transitional land-water areas, covered

at least part of the time by estuarine or coastal waters and characterized by aquatic and grass-

masking

GS masking

. target masking mass to light ratios thrust-weight ratio audiometry meteoroid concentration chemisorption missing mass (astrophysics) 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) charge ratio and measuring the respective ion mass drivers 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 pulsion systems, and hypervelocity accelera-GS measuring instruments masonry . 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 microanalysis moon-Earth trajectories 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 mass spectroscopy DEF A quantity characteristic of a body, mass flow which relates the attraction of this body toward UF mass spectrometry GS fluid flow another body. Since the mass of a body is not fixed in magnitude, all masses are referred to GS spectroscopy mass flow . mass spectroscopy Crocco-Lee theory the standard kilogram, which is a lump of plati-... inductively coupled plasma mass ∞ flow num. Used for low mass. spectrometry flow theory low mass 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 solids flow astronomy mascons steady flow astrophysics galactic radiation mass to light ratios steam flow 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) missing mass (astrophysics) SN 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 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 GS nations force distribution . mass ratios . United States galactic mass . . mass to light ratios intergalactic media . . mixing ratios . . Massachusetts interplanetary medium . . payload mass ratio

. propellant mass ratio

metallicity

pressure ratio

structural weight

massaging

GS

therapy

massaging

fatigue (biology)

interstellar matter

loading moments

loads (forces)

∞ mass balance

	relaxation (physiology)		signal to noise ratios	low density materials
				magnetic materials
massife		matchin		maser materials
	Massive topographic and structural	RT	adjusting comparison	materials handling
features	, especially in orogenic belts, commonly		fitting	materials recovery
	of rocks more rigid than those of their		homology	∞ materials science
	dings. These rocks may be protruding		image resolution	∞ materials tests
	of basement rocks, consolidated during		impedance matching	matrix materials mechanical properties
	progenies, or younger plutonic bodies.		mismatch (electrical)	metal matrix composites
GS	landforms		pattern registration	molding materials
	. massifs		pattorn regionation	nonflammable materials
RT	Earth crust	material	absorption	optical materials
0	o faults	RT	absorbents	organic materials
	geological faults		absorbers (equipment)	paper (material)
	geology	∞	absorption	phase change materials
	mountains		assimilation	photoelastic materials
			bioavailability	photoelectric materials
	e compact halo objects		extraction	polymer matrix composites
	ed November 1999)		hygroscopicity	porous materials
	Objects, such as brown dwarfs, black		radiation absorption	pyrolytic materials
	and massive planets, hypothesized to		sorption	pyrophoric materials
	for the dark matter in the halo of the		water treatment	radioactive materials
	ay. The signature of these objects is the			radome materials
	nal amplification of the light from ex-		balance	reactor materials
	tic stars by the gravitational lens effect.	GS	balance	refractory materials
UF	MACHOs (astronomy)		. material balance	reinforcing materials
GS	celestial bodies		water balance	reserves
БТ	massive compact halo objects		heat balance	resources
RT	brown dwarf stars	∞	mass balance	self lubricating materials
	dark matter		stoichiometry	semiconductors (materials)
	galactic halos	material	romoval (machining)	sizing materials
	gravitational lenses		removal (machining) machining	smart materials
	Milky Way Galaxy	USE	macming	solids
	missing mass (astrophysics)	material	strength	spacecraft construction material
	red dwarf stars	USE	mechanical properties	sponges (materials)
		OOL	meenamear properties	strategic materials
massiv	e stars	∞ materia	ls	superhybrid materials
(adde	ed July 1991)	SN	(USE OF A MORE SPECIFIC TERM IS	thermochromatic materials
GS	celestial bodies		RECOMMENDEDCONSULT THE TERMS	thermoelectric materials
	. stars	UF	LISTED BELOW) substances	thickeners (materials)
	massive stars	RT	ablative materials	three dimensional composites
RT	black holes (astronomy)	ΠI	absorbents	vitreous materials
	degenerate matter		absorbers (materials)	Vycor
	stellar mass		acceptor materials	
	supergiant stars		aging (materials)	materials handling
	supermassive stars		aircraft construction materials	GS materials handling
			airframe materials	ground handling
massiv	ely parallel processors		amorphous materials	. propellant transfer
(adde	ed December 1988)		anisotropic media	. remote handling
UF	MPP (computers)		binary systems (materials)	RT airfield surface movements
GS	data processing equipment		binders (materials)	∞ automation
	. computers		bitumens	blowers
	digital computers		boron reinforced materials	canals
	parallel computers		Borsic (tradename)	cargo
	massively parallel processors		brittle materials	cargo aircraft
	Connection Machine		carbonaceous materials	carts
RT	architecture (computers)		composite materials	chemical engineering
	parallel processing (computers)		concrete structures	chutes
		∞	construction materials	∞ containers
MAST s	shock tubes		contaminants	contingency
USE	magnetic annular shock tubes		cork (materials)	conveyors
			curl (materials)	cranes
mastica	ation		dislocations (materials)	delivery
UF	chewing		donor materials	dispensers
RT	digesting		dredged materials	disposal
	eating		electric furnaces	distributing
	teeth		electrons	∞ distribution
			epoxy matrix composites	distributors
mastoio	1e		fatigue (materials)	dollies
GS	anatomy		ferrimagnetic materials	dumping
ao	. head (anatomy)		ferroelastic materials	ejection
	skull		ferroelectric materials	ejectors
	mastoids		ferromagnetic materials	emptying
	. musculoskeletal system		fissionable materials	encapsulating
	bones		foams	excavation
	skull		foils (materials)	feeders
	mastoids		fractures (materials)	feeding (supplying)
RT	cranium		glass	fluid flow
	ear		glassy carbon	fuel pumps
			granular materials	hauling
mataba	d filtors		graphite-epoxy composites	heavy lift airships
matcne GS	d filters		hazardous materials	hoppers
us	electromagnetic wave filters . matched filters		holes (electron deficiencies) inorganic materials	loading operations
RT		∞	insulation	lunar logistics
ΠI	communication equipment demodulators		laminates	marking ∞ materials
			iaiiiiiale3	~ Illatellais
-			laser materials	mechanical anginopring
0	ofilters modulators		laser materials lossless materials	mechanical engineering mines (excavations)

# materials recovery

	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	electrophotometry	broken symmetry
services	environmental tests	chaos
siphons	fatigue tests	computational astrophysics
sprayers	fiber pullout	computational grids
spreading	fiber pushout	computational mechanics
stacks ∞ storage	fuel tests gas analysis	computer systems simulation computerized simulation
tanks (containers)	hardness tests	continuum modeling
tractors	high temperature tests	control systems design
transferring	impact tests	decision theory
transportation	lubricant tests	dynamic models
trucks	magnetic measurement	dynamic programming
unloading	∞ materials	dynamical systems
vacuum pumps	materials selection	Euler-Bernoulli beams
waste disposal	mechanical properties	exhaust flow simulation
wharves	metallography	experiment design
	microanalysis	factorial design
materials recovery	nanoindentation	flow charts
SN (LIMITED TO TREATMENT OF A MATERIAL TO RECLAIM ONE OR MORE	neutron radiography	footprints
OF ITS COMPONENTS)	nondestructive tests	forecasting
DEF The treatment of a material to reclaim	propellant tests	functions (mathematics)
one or more of its components.	quality	game theory
GS reclamation	quality control	goodness of fit
. materials recovery	radiography	graph theory
gas recovery	specifications	inelastic stress
nuclear fuel reprocessing	static tests	inventory controls
solvolysis	∞ tests	large eddy simulation
water reclamation	ultrasonic tests	likelihood ratio
RT ∞ absorption	wear tests	linear prediction
by-products	x ray analysis	lofting
centrifuging	x ray spectroscopy	lumped parameter systems
crystallization	mathematical analysis	method of moments
disposal	USE applications of mathematics	∞ missile simulators
distillation	OSE applications of mathematics	model reference adaptive control
extraction	mathematical logic	Monte Carlo method multiscale models
filtration in situ resource utilization	GS mathematical logic	numerical weather forecasting
∞ materials	. algorithms	ocean models
∞ precipitation	backpropagation (artificial	operations research
precipitation (chemistry)	intelligence)	outliers (statistics)
∞ processing	genetic algorithms	parameter identification
∞ recovery	greedy algorithms	parameterization
recycling	parsing algorithms	quantiles
refining	simplex method	queueing theory
removal	sorting algorithms	regression coefficients
∞ separation	. axioms	risk
waste management	. formulas (mathematics)	robustness (mathematics)
	,	
	Bethe-Heitler formula	scheduling
∞ materials science	Bethe-Heitler formula . . lattices (mathematics)	scheduling similarity theorem
SN (USE OF A MORE SPECIFIC TERM IS	Bethe-Heitler formula . lattices (mathematics) Boolean algebra	
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	Bethe-Heitler formula . lattices (mathematics) Boolean algebra Boolean functions	similarity theorem simulation spacecraft models
SN (USE OF A MORE SPECIFIC TERM IS	Bethe-Heitler formula     lattices (mathematics)     Boolean algebra     Boolean functions     predicate calculus	similarity theorem simulation spacecraft models spatial dependencies
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)	Bethe-Heitler formula     lattices (mathematics)     Boolean algebra     Boolean functions     predicate calculus     set theory	similarity theorem simulation spacecraft models spatial dependencies statistical distributions
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) RT ceramics laser cutting maser materials	Bethe-Heitler formula     lattices (mathematics)     Boolean algebra     Boolean functions     predicate calculus     set theory     Borel sets	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) RT ceramics laser cutting maser materials  ∞ materials	Bethe-Heitler formula     lattices (mathematics)     Boolean algebra     Boolean functions     predicate calculus     set theory     Borel sets     equivalence	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) RT ceramics laser cutting maser materials ∞ materials metal foams	Bethe-Heitler formula     lattices (mathematics)     Boolean algebra     Boolean functions     predicate calculus     set theory     Borel sets     equivalence     threshold logic	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  RT ceramics laser cutting maser materials ∞ materials metal foams plastics	Bethe-Heitler formula     lattices (mathematics)     Boolean algebra     Boolean functions     predicate calculus     set theory     Borel sets     equivalence     threshold logic  RT branching (mathematics)	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) RT ceramics laser cutting maser materials  materials metal foams plastics  properties	. Bethe-Heitler formula . lattices (mathematics) . Boolean algebra . Boolean functions . predicate calculus . set theory . Borel sets . equivalence . threshold logic BT branching (mathematics) functions (mathematics)	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering systems simulation
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  RT ceramics laser cutting maser materials ∞ materials metal foams plastics	. Bethe-Heitler formula . lattices (mathematics) . Boolean algebra . Boolean functions . predicate calculus . set theory . Borel sets . equivalence . threshold logic  RT branching (mathematics) functions (mathematics) hypotheses	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering systems simulation three dimensional models
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  RT ceramics laser cutting maser materials ∞ materials metal foams plastics ∞ properties ∞ science	. Bethe-Heitler formula . lattices (mathematics) . Boolean algebra . Boolean functions . predicate calculus . set theory . Borel sets . equivalence . threshold logic  RT branching (mathematics) hypotheses induction (mathematics)	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering systems simulation three dimensional models trajectory analysis
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  RT ceramics laser cutting maser materials  ∞ materials metal foams plastics ∞ properties ∞ science  materials selection	. Bethe-Heitler formula . lattices (mathematics) . Boolean algebra . Boolean functions . predicate calculus . set theory . Borel sets . equivalence . threshold logic  RT branching (mathematics) functions (mathematics) hypotheses induction (mathematics) instruction sets (computers)	similarity theorem simulation spacecraft models spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering systems simulation three dimensional models trajectory analysis two dimensional bodies
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) RT ceramics laser cutting maser materials  ∞ materials  metal foams plastics  ∞ properties  ∞ science  materials selection (added August 2001)	. Bethe-Heitler formula . lattices (mathematics) . Boolean algebra . Boolean functions . predicate calculus . set theory . Borel sets . equivalence . threshold logic  RT branching (mathematics) functions (mathematics) hypotheses induction (mathematics) instruction sets (computers)  ∞ logic	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering systems simulation three dimensional models trajectory analysis two dimensional bodies two dimensional models
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT ceramics laser cutting maser materials  materials metal foams plastics properties science  materials selection (added August 2001)  DEF Process of choosing the most appro-	. Bethe-Heitler formula . lattices (mathematics) . Boolean algebra . Boolean functions . predicate calculus . set theory . Borel sets . equivalence . threshold logic  RT branching (mathematics) functions (mathematics) hypotheses induction (mathematics) instruction sets (computers)	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering systems simulation three dimensional models trajectory analysis two dimensional bodies two dimensional models validity
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) RT ceramics laser cutting maser materials  ∞ materials  metal foams plastics  ∞ properties  ∞ science  materials selection (added August 2001)	. Bethe-Heitler formula . lattices (mathematics) . Boolean algebra . Boolean functions . predicate calculus . set theory . Borel sets . equivalence . threshold logic BT branching (mathematics) functions (mathematics) hypotheses induction (mathematics) instruction sets (computers)  ∞ logic philosophy	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering systems simulation three dimensional models trajectory analysis two dimensional bodies two dimensional models
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  RT ceramics laser cutting maser materials ∞ materials metal foams plastics ∞ properties ∞ science  materials selection (added August 2001)  DEF Process of choosing the most appropriate materials for a given application.	. Bethe-Heitler formula . lattices (mathematics) . Boolean algebra . Boolean functions . predicate calculus . set theory . Borel sets . equivalence . threshold logic  RT branching (mathematics) functions (mathematics) hypotheses induction (mathematics) instruction sets (computers)  ∞ logic philosophy proving	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering systems simulation three dimensional models trajectory analysis two dimensional bodies two dimensional models validity war games
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  RT ceramics laser cutting maser materials ∞ materials metal foams plastics ∞ properties ∞ science  materials selection (added August 2001)  DEF Process of choosing the most appropriate materials for a given application.  GS selection	. Bethe-Heitler formula . lattices (mathematics) . Boolean algebra . Boolean functions . predicate calculus . set theory . Borel sets . equivalence . threshold logic  RT branching (mathematics) functions (mathematics) hypotheses induction (mathematics) instruction sets (computers)  ∞ logic philosophy proving temporal logic theorems Turing machines	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering systems simulation three dimensional models trajectory analysis two dimensional bodies two dimensional models validity war games
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT ceramics laser cutting maser materials  ∞ materials  metal foams plastics  ∞ properties  ∞ science  materials selection  (added August 2001)  DEF Process of choosing the most appropriate materials for a given application.  GS selection  . materials selection  RT aircraft construction materials airframe materials	. Bethe-Heitler formula . lattices (mathematics) . Boolean algebra . Boolean functions . predicate calculus . set theory . Borel sets . equivalence . threshold logic  RT branching (mathematics) functions (mathematics) hypotheses induction (mathematics) instruction sets (computers)  ∞ logic philosophy proving temporal logic theorems	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering systems simulation three dimensional models trajectory analysis two dimensional bodies two dimensional models validity war games  mathematical programming SN (LIMITED TO MATHEMATICAL OPTIMIZATION THEORY—EXCLUDES)
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  RT ceramics laser cutting maser materials  ∞ materials  metal foams plastics  ∞ properties  ∞ science  materials selection (added August 2001)  DEF Process of choosing the most appropriate materials for a given application.  GS selection  . materials selection  RT aircraft construction materials airframe materials  ∞ construction materials	. Bethe-Heitler formula . lattices (mathematics) . Boolean algebra . Boolean functions . predicate calculus . set theory . Borel sets . equivalence . threshold logic  RT branching (mathematics) functions (mathematics) hypotheses induction (mathematics) instruction sets (computers)    logic     philosophy     proving     temporal logic     theorems     Turing machines     Venn diagrams	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering systems simulation three dimensional models trajectory analysis two dimensional bodies two dimensional models validity war games  mathematical programming SN (LIMITED TO MATHEMATICAL OPTIMIZATION THEORY-EXCLUDES COMPUTER PROGRAMMING)
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT ceramics laser cutting maser materials  ∞ materials  metal foams plastics  ∞ properties  ∞ science  materials selection (added August 2001)  DEF Process of choosing the most appropriate materials for a given application.  GS selection  materials selection  RT aircraft construction materials  airframe materials  ∞ construction materials  ∞ construction materials  ∞ materials tests	. Bethe-Heitler formula . lattices (mathematics) . Boolean algebra . Boolean functions . predicate calculus . set theory . Borel sets . equivalence . threshold logic  RT branching (mathematics) functions (mathematics) hypotheses induction (mathematics) instruction sets (computers)    logic	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering systems simulation three dimensional models trajectory analysis two dimensional bodies two dimensional models validity war games  mathematical programming SN (LIMITED TO MATHEMATICAL OPTIMIZATION THEORY-EXCLUDES COMPUTER PROGRAMMING) GS optimization
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) RT ceramics laser cutting maser materials  ∞ materials  ∞ metal foams plastics  ∞ properties  ∞ science  materials selection  (added August 2001) DEF Process of choosing the most appropriate materials for a given application. GS selection  . materials selection  RT aircraft construction materials airframe materials  ∞ construction materials  ∞ materials tests optical materials	. Bethe-Heitler formula . lattices (mathematics) . Boolean algebra . Boolean functions . predicate calculus . set theory . Borel sets . equivalence . threshold logic  RT branching (mathematics) functions (mathematics) hypotheses induction (mathematics) instruction sets (computers)  ∞ logic philosophy proving temporal logic theorems Turing machines Venn diagrams  mathematical models GS models	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering systems simulation three dimensional models trajectory analysis two dimensional bodies two dimensional models validity war games  mathematical programming SN (LIMITED TO MATHEMATICAL OPTIMIZATION THEORY-EXCLUDES COMPUTER PROGRAMMING) GS optimization . mathematical programming
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  RT ceramics laser cutting maser materials  materials metal foams plastics  properties  science  materials selection (added August 2001)  DEF Process of choosing the most appropriate materials for a given application.  GS selection  materials selection  raterials selection  materials selection  raterials selection  materials selection  materials selection  raterials selection  materials selection  raterials selection  materials selection  materials selection  materials selection  materials selection materials	. Bethe-Heitler formula . lattices (mathematics) . Boolean algebra . Boolean functions . predicate calculus . set theory . Borel sets . equivalence . threshold logic BT branching (mathematics) functions (mathematics) hypotheses induction (mathematics) instruction sets (computers)  ∞ logic philosophy proving temporal logic theorems Turing machines Venn diagrams  mathematical models GS models . mathematical models	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering systems simulation three dimensional models trajectory analysis two dimensional bodies two dimensional models validity war games  mathematical programming SN (LIMITED TO MATHEMATICAL OPTIMIZATION THEORY-EXCLUDES COMPUTER PROGRAMMING) GS optimization . mathematical programming dynamic programming
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  RT ceramics laser cutting maser materials  ∞ materials  metal foams plastics  ∞ properties  ∞ science  materials selection  (added August 2001)  DEF Process of choosing the most appropriate materials for a given application.  GS selection  Inaterials selection  RT aircraft construction materials airframe materials  ∞ construction materials  ∞ materials tests  optical materials  reactor materials  spacecraft construction materials	. Bethe-Heitler formula . lattices (mathematics) . Boolean algebra . Boolean functions . predicate calculus . set theory . Borel sets . equivalence . threshold logic  RT branching (mathematics) functions (mathematics) hypotheses induction (mathematics) instruction sets (computers)    logic     philosophy     proving     temporal logic     theorems     Turing machines     Venn diagrams    mathematical models     GS     mathematical models     analog simulation	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering systems simulation three dimensional models trajectory analysis two dimensional bodies two dimensional models validity war games  mathematical programming SN (LIMITED TO MATHEMATICAL OPTIMIZATION THEORY-EXCLUDES COMPUTER PROGRAMMING) GS optimization . mathematical programming dynamic programming dynamic programming linear programming
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  RT ceramics laser cutting maser materials  ∞ materials  metal foams plastics  ∞ properties  ∞ science  materials selection (added August 2001)  DEF Process of choosing the most appropriate materials for a given application.  GS selection  . materials selection  RT aircraft construction materials airframe materials  ∞ construction materials  ∞ materials tests optical materials  reactor materials  spacecraft construction materials structural design	. Bethe-Heitler formula . lattices (mathematics) . Boolean algebra . Boolean functions . predicate calculus . set theory . Borel sets . equivalence . threshold logic  RT branching (mathematics) functions (mathematics) hypotheses induction (mathematics) instruction sets (computers)  logic philosophy proving temporal logic theorems Turing machines Venn diagrams  mathematical models GS models . mathematical models . analog simulation . BGK model	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering systems simulation three dimensional models trajectory analysis two dimensional bodies two dimensional bodies two dimensional models validity war games  mathematical programming SN (LIMITED TO MATHEMATICAL OPTIMIZATION THEORY-EXCLUDES COMPUTER PROGRAMMING) GS optimization . mathematical programming . dynamic programming . linear programming . linear programming . nonlinear programming
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  RT ceramics laser cutting maser materials  ∞ materials  ∞ metal foams plastics  ∞ properties  ∞ science  materials selection (added August 2001)  DEF Process of choosing the most appropriate materials for a given application.  GS selection  . materials selection  RT aircraft construction materials airframe materials  ∞ construction materials  ∞ construction materials  reactor materials  reactor materials  spacecraft construction materials structural design structural weight	. Bethe-Heitler formula . lattices (mathematics) . Boolean algebra . Boolean functions . predicate calculus . set theory . Borel sets . equivalence . threshold logic  RT branching (mathematics) functions (mathematics) hypotheses induction (mathematics) instruction sets (computers)  logic philosophy proving temporal logic theorems Turing machines Venn diagrams  mathematical models GS models . mathematical models . analog simulation . BGK model . biological models (mathematics)	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering systems simulation three dimensional models trajectory analysis two dimensional bodies two dimensional models validity war games  mathematical programming SN (LIMITED TO MATHEMATICAL OPTIMIZATION THEORY-EXCLUDES COMPUTER PROGRAMMING) GS optimization . mathematical programming dynamic programming dynamic programming linear programming
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  RT ceramics laser cutting maser materials  ∞ materials  metal foams plastics  ∞ properties  ∞ science  materials selection (added August 2001)  DEF Process of choosing the most appropriate materials for a given application.  GS selection  . materials selection  RT aircraft construction materials airframe materials  ∞ construction materials  ∞ materials tests optical materials  reactor materials  spacecraft construction materials structural design	. Bethe-Heitler formula . lattices (mathematics) . Boolean algebra . Boolean functions . predicate calculus . set theory . Borel sets . equivalence . threshold logic  RT branching (mathematics) functions (mathematics) hypotheses induction (mathematics) instruction sets (computers)  ∞ logic philosophy proving temporal logic theorems Turing machines Venn diagrams  mathematical models GS models . mathematical models . analog simulation . BGK model . biological models (mathematics) . digital simulation	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering systems engineering systems simulation three dimensional models trajectory analysis two dimensional bodies two dimensional models validity war games  mathematical programming SN (LIMITED TO MATHEMATICAL OPTIMIZATION THEORY-EXCLUDES COMPUTER PROGRAMMING) optimization mathematical programming . dynamic programming . dynamic programming . innear programming . nonlinear programming . quadratic programming
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  RT ceramics laser cutting maser materials  ∞ materials  ∞ metal foams plastics  ∞ properties  ∞ science  materials selection (added August 2001)  DEF Process of choosing the most appropriate materials for a given application.  GS selection  . materials selection  RT aircraft construction materials airframe materials  ∞ construction materials  ∞ construction materials  reactor materials  reactor materials  spacecraft construction materials structural design structural weight	. Bethe-Heitler formula . lattices (mathematics) . Boolean algebra . Boolean functions . predicate calculus . set theory . Borel sets . equivalence . threshold logic  RT branching (mathematics) functions (mathematics) hypotheses induction (mathematics) instruction sets (computers)  logic philosophy proving temporal logic theorems Turing machines Venn diagrams  mathematical models GS models . mathematical models . analog simulation . BGK model . biological models (mathematics)	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering systems simulation three dimensional models trajectory analysis two dimensional bodies two dimensional models validity war games  mathematical programming SN (LIMITED TO MATHEMATICAL OPTIMIZATION THEORYEXCLUDES COMPUTER PROGRAMMING) GS optimization mathematical programming . dynamic programming . dynamic programming . linear programming . nonlinear programming . quadratic programming RT game theory
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  RT ceramics laser cutting maser materials  ∞ materials  metal foams plastics  ∞ properties  ∞ science  materials selection (added August 2001)  DEF Process of choosing the most appropriate materials for a given application.  GS selection  Interials selection  RT aircraft construction materials airframe materials  ∞ construction materials  ∞ materials tests  optical materials  reactor materials  spacecraft construction materials  structural design  structural weight  weight reduction	. Bethe-Heitler formula . lattices (mathematics) . Boolean algebra . Boolean functions . predicate calculus . set theory . Borel sets . equivalence . threshold logic  RT branching (mathematics) functions (mathematics) hypotheses induction (mathematics) instruction sets (computers)    logic     philosophy     proving     temporal logic     theorems     Turing machines     Venn diagrams    mathematical models     GS models     mathematical models     c analog simulation     digital simulation     digital simulation     Mandelstam representation	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering systems engineering systems simulation three dimensional models trajectory analysis two dimensional bodies two dimensional models validity war games  mathematical programming SN (LIMITED TO MATHEMATICAL OPTIMIZATION THEORY-EXCLUDES COMPUTER PROGRAMMING) GS optimization mathematical programming dynamic programming dynamic programming linear programming nonlinear programming requadratic programming RT game theory operations research
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  RT ceramics laser cutting maser materials  ∞ materials  metal foams plastics  ∞ properties  ∞ science  materials selection (added August 2001)  DEF Process of choosing the most appropriate materials for a given application.  GS selection  Inderials selection  RT aircraft construction materials airframe materials  ∞ construction materials  ∞ materials tests  optical materials  reactor materials  spacecraft construction materials structural design structural weight weight reduction  materials testing reactors  USE nuclear research and test reactors	. Bethe-Heitler formula . lattices (mathematics) . Boolean algebra . Boolean functions . predicate calculus . set theory . Borel sets . equivalence . threshold logic  RT branching (mathematics) functions (mathematics) hypotheses induction (mathematics) instruction sets (computers)  logic philosophy proving temporal logic theorems Turing machines Venn diagrams  mathematical models GS models . analog simulation . BGK model . biological models (mathematics) . digital simulation . Mandelstam representation . Petri nets	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering systems simulation three dimensional models trajectory analysis two dimensional bodies two dimensional models validity war games  mathematical programming SN (LIMITED TO MATHEMATICAL OPTIMIZATION THEORY-EXCLUDES COMPUTER PROGRAMMING) GS optimization . mathematical programming . dynamic programming . linear programming . linear programming . nonlinear programming . quadratic programming RT game theory operations research ∞ programming
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  RT ceramics laser cutting maser materials  ∞ materials  ∞ materials  metal foams plastics  ∞ properties  ∞ science  materials selection (added August 2001)  DEF Process of choosing the most appropriate materials for a given application.  GS selection  RT aircraft construction materials airframe materials  ∞ construction materials  ∞ materials tests  optical materials  reactor materials  spacecraft construction materials structural design structural weight weight reduction  materials testing reactors  USE nuclear research and test reactors  materials tests  materials tests  materials tests  materials tests	. Bethe-Heitler formula . lattices (mathematics) . Boolean algebra . Boolean functions . predicate calculus . set theory . Borel sets . equivalence . threshold logic  RT branching (mathematics) functions (mathematics) hypotheses induction (mathematics) instruction sets (computers)  logic philosophy proving temporal logic theorems Turing machines Venn diagrams  mathematical models GS models . mathematical models . analog simulation . BGK model . biological models (mathematics) . digital simulation . Mandelstam representation . Petri nets . Thomas-Fermi model	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering systems simulation three dimensional models trajectory analysis two dimensional bodies two dimensional models validity war games  mathematical programming SN (LIMITED TO MATHEMATICAL OPTIMIZATION THEORY-EXCLUDES COMPUTER PROGRAMMING) GS optimization . mathematical programming . dynamic programming . linear programming . linear programming . nonlinear programming . quadratic programming RT game theory operations research ∞ programming
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  RT ceramics laser cutting maser materials  materials metal foams plastics  properties  science  materials selection (added August 2001)  DEF Process of choosing the most appropriate materials for a given application.  GS selection  materials selection  RT aircraft construction materials airframe materials  construction materials  materials tests optical materials  reactor materials  spacecraft construction materials structural design structural design structural weight weight reduction  materials testing reactors  USE nuclear research and test reactors  materials tests  SN (USE OF A MORE SPECIFIC TERM IS	. Bethe-Heitler formula . lattices (mathematics) . Boolean algebra . Boolean functions . predicate calculus . set theory . Borel sets . equivalence . threshold logic  RT branching (mathematics) functions (mathematics) hypotheses induction (mathematics) instruction sets (computers)  logic philosophy proving temporal logic theorems Turing machines Venn diagrams  mathematical models GS models . mathematical models . analog simulation . BGK model . biological models (mathematics) . digital simulation . Mandelstam representation . Petri nets . Thomas-Fermi model . turbulence models	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering systems simulation three dimensional models trajectory analysis two dimensional bodies two dimensional models validity war games  mathematical programming SN (LIMITED TO MATHEMATICAL OPTIMIZATION THEORY-EXCLUDES COMPUTER PROGRAMMING) Optimization . mathematical programming . dynamic programming . inear programming . nonlinear programming . nonlinear programming RT game theory operations research ∞ programming simplex method
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  RT ceramics laser cutting maser materials  ∞ materials  ∞ materials  metal foams plastics  ∞ properties  ∞ science  materials selection (added August 2001)  DEF Process of choosing the most appropriate materials for a given application.  GS selection  RT aircraft construction materials airframe materials  ∞ construction materials  ∞ materials tests  optical materials  reactor materials  spacecraft construction materials structural design structural weight weight reduction  materials testing reactors  USE nuclear research and test reactors  materials tests  materials tests  materials tests  materials tests	. Bethe-Heitler formula . lattices (mathematics) . Boolean algebra . Boolean functions . predicate calculus . set theory . Borel sets . equivalence . threshold logic  RT branching (mathematics) functions (mathematics) hypotheses induction (mathematics) instruction sets (computers)    philosophy   proving   temporal logic   theorems   Turing machines   Venn diagrams    mathematical models   GS models   mathematical models   analog simulation   BGK model   biological models (mathematics)   digital simulation   Mandelstam representation   Petri nets   turbulence models   Baldwin-Lomax turbulence model	similarity theorem simulation spacecraft models spatial dependencies statistical distributions stochastic processes system identification systems analysis systems engineering systems simulation three dimensional models trajectory analysis two dimensional models two dimensional models validity war games  mathematical programming SN (LIMITED TO MATHEMATICAL OPTIMIZATION THEORY-EXCLUDES COMPUTER PROGRAMMING) GS optimization . mathematical programming . dynamic programming . dynamic programming . inear programming . nonlinear programming . nonlinear programming RT game theory operations research ∞ programming simplex method  mathematical tables

RT information switching circuits spline functions numerical analysis matrix stress calculation random numbers matrices (mathematics) USE matrix methods mathematics UF differential algebra (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) The study of the logical relationships matrix theory matrix analysis SN RT operators (mathematics) algebra ∞ theories . vector spaces matrices (mathematics) among abstract entities. These relationships are matter (physics) . . . adjoints expressed in numbers, symbols, and signs and matter (physics) . . . canonical forms may also be applied to concrete instances such . dark matter . eigenvalues as measures and properties of shapes. The . degenerate matter . . . eigenvectors main subdivisions include algebra, geometry, . negative matter ... Hessian matrices and analysis. . rotating matter . . . Jordan form RT algebra . . rotating fluids . . . stiffness matrix analysis (mathematics) . . . rotating liquids arrays chiral dynamics axioms . . rotating plasmas bond graphs RT antimatter determinants calculus condensed matter physics energy methods factor analysis current algebra extraterrestrial matter duality theorem formulas (mathematics) finite element method Gaussian elimination ∞ physics fractals matter-antimatter propulsion Hermitian polynomial functions (mathematics) (added December 1988) isoperimetric problem geometry inequalities DEF Spacecraft propulsion by use of linear equations matter-antimatter annihilation reactions. linear programming information theory GS propulsion linear transformations integrals . spacecraft propulsion Latin square method lumped parameter systems . . matter-antimatter propulsion ∞ matrices lattices (mathematics) annihilation reactions method of moments martingales antimatter roots of equations morphology interplanetary flight simplex method number theory interplanetary spacecraft simultaneous equations numerical analysis interstellar travel subgroups primitive equations negative matter propulsion U spin space ∞ principles nuclear propulsion Walsh function probability theory positron annihilation rings (mathematics) proton-antiproton interactions ∞ science rocket engines matrix analysis series expansion USE matrices (mathematics) stars (mathematics) MATTS (systems) statistical analysis multiple target trajectory systems superposition (mathematics) GS networks matrix management . tracking networks
. . MATTS (systems) symbols DEF An organized approach to administratheorems tion of a program by defining and structuring all abort trajectories airborne equipment elements to form a single system with compo-Mathieu equation nents united by interaction. USE Mathieu function angular correlation management
. matrix management GS target acquisition Mathieu function allocations maturing USE **growth** Mathieu equation logistics GS analysis (mathematics) management methods ∞ methodology . complex variables Mathieu function Mauler missile operations research GS missiles functions (mathematics) productivity . antiaircraft missiles Mathieu function project planning boundary value problems . . Mauler missile scheduling . antimissile missiles differential equations eigenvectors tasks . . Mauler missile . surface to air missiles ∞ equations Hill determinant . Mauler missile matrix materials single stage rocket vehicles orthogonal functions The ingredients used as binding solid propellant rocket engines agents to produce composite materials. Matra missile bismaleimide Mauritania missiles GS ceramic matrix composites GS nations air to air missiles composite materials Mauritania Matra missile debonding (materials) RT Africa RT solid propellant rocket engines epoxy matrix composites Mauritius fiber composites matrices (added February 1989) (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) composite materials fiber-matrix interfaces functionally gradient materials GS landforms . islands laminates . Mauritius ∞ materials epoxy matrix composites metal matrix composites nations eutectic composites Mauritius polymer matrix composites Africa reinforcing materials ∞ imbeddings resin matrix composites Indian Ocean lattices (mathematics) resin transfer molding matrices (circuits) Maverick missiles matrices (mathematics) GS missiles metal matrix composites . air to surface missiles matrix methods monotectic alloys (LIMITED TO METHODS FOR STRUCTURAL ANALYSIS) matrix stress calculation . . Maverick missiles polymer matrix composites Max Holste MH-262 aircraft matrices (circuits) GS structural analysis USE MH-262 aircraft . matrix methods circuits GS

equilibrium methods

∞ methodology

NASTRAN

maxima

GS

analysis (mathematics)

real variables

matrices (circuits)

logic circuits

∞ matrices

RT

## maximum entropy method

. . extremum values viscoelasticity . . DC 3 aircraft . . maxima viscous flow . . DC 7 aircraft RT viscous fluids apexes . . DC 8 aircraft calculus of variations . . DC 9 aircraft Maxwell-Boltzmann density function cusps (mathematics) . . DC 10 aircraft minima Maxwellian distribution (density) . . PD-808 aircraft optimization functions (mathematics) . X-3 aircraft ∞ peaks Maxwell-Boltzmann density . F-18 aircraft penalty function function . Mcdonnell aircraft range (extremes) statistical analysis . . C-9 aircraft . Maxwell-Boltzmann density zenith . . DC 10 aircraft function . . F-4 aircraft maximum entropy method density distribution . F-101 aircraft DEF Procedure used in estimating high kinetic theory . MD 11 aircraft resolution power spectra from short data probability theory MD 80 aircraft statistical mechanics lengths. . X-36 aircraft ĞS entropy (statistics) RT ∞ aircraft . maximum entropy method Maxwellian distribution (density) Boeing aircraft USE Maxwell-Boltzmann density spectrum analysis maximum entropy method function distribution functions entropy
Fourier transformation Maxwell-Mohr method McLaurin series RT deflection USE MacLaurin series ∞ equilibrium information theory ∞ methodology ∞ methodology static deformation power spectra Mcleod gages signal processing signal to noise ratios statistical analysis trusses measuring instruments . pressure gages Mayer problem . . vacuum gages RT ∞ condensation time series analysis . . Mcleod gages critical point vacuum apparatus Gibbs free energy maximum likelihood estimates vacuum gages confidence limits ∞ molecular physics Mcleod gages ∞ problems Cramer-Rao bounds ionization gages forecasting supersaturation Knudsen gages goodness of fit likelihood ratio Pirani gages maypole antennas pressure measurement DEF A class of antennas which use the parameter identification deployable reflector concept for large space predictions systems applications. reliability McMurdo sound GS antennas risk GS regions . maypole antennas system identification . polar regions antenna design large space structures . . Antarctic regions maximum principle space erectable structures . . . McMurdo sound complex variables . remote regions differential equations . . Antarctic regions maze learning elliptic differential equations McMurdo sound GS learning harmonic functions . maze learning sounds (topographic features) pontryagin principle McMurdo sound problem solving real variables Southern Hemisphere . Antarctic regions MB-1 rocket vehicle maximum usable frequency McMurdo sound For a given distance from a transmitter, USE Genie rocket vehicle RT Ross ice shelf the highest frequency at which sky waves can MBM junctions be received. Diode devices using metal-barrier-DFF GS frequencies metal layers. Used for metal-barrier-metal juncmaximum usable frequency MCR reactors RT frequency assignment tions USE military compact reactors UF metal-barrier-metal junctions frequency reuse semiconductor junctions
. MBM junctions high frequencies GS very high frequencies MD 11 aircraft RT barrier layers (added October 1994) UF DC 11 aircraft ∞ barriers Maxwell bodies junction transistors classical mechanics commercial aircraft continuum mechanics solid state devices MD 11 aircraft Hookes law jet aircraft . MD 11 aircraft oscillation dampers Mcdonnell aircraft relaxation time GS McDonnell Douglas aircraft McDonnell Douglas aircraft . Mcdonnell aircraft . MD 11 aircraft Maxwell equation . . C-9 aircraft passenger aircraft
MD 11 aircraft .. DC 10 aircraft Biot-Savart law Boltzmann-Vlasov equation . . F-4 aircraft transport aircraft . MD 11 aircraft Born-Infeld theory . F-101 aircraft electricity RT ∞ aircraft  $RT \, \infty \, aircraft$ electrodynamics electromechanics McDonnell Douglas aircraft equations GS McDonnell Douglas aircraft Gauss equation . C-17 aircraft MD 80 aircraft magnetic charge density . Douglas aircraft (added October 1994) magnetic properties . . A-1 aircraft commercial aircraft magnetoelectric media . . A-3 aircraft MD 80 aircraft perfectly matched layers . . A-4 aircraft jet aircraft Poynting theorem 

∞ Stokes law . . B-66 aircraft MD 80 aircraft McDonnell Douglas aircraft . . C-9 aircraft . . C-47 aircraft . MD 80 aircraft Maxwell fluids . . C-54 aircraft passenger aircraft compressible fluids MD 80 aircraft . . C-118 aircraft

. . C-124 aircraft

. . C-133 aircraft

D-558 aircraft

transport aircraft . MD 80 aircraft

RT ∞ aircraft

fluid mechanics

rheology

DC 9 aircraft	J integral	radioactive age determination
MDA	Lebesgue theorem numerical integration	rangefinding signal measurement
USE multiple docking adapters	Runge-Kutta method	size determination
ME D 400 ' "	Stieltjes integral	sounding
ME P-160 aircraft USE P-160 aircraft	weighting functions	sphygmography
OCE I TOO UNDICH	RT Fourier analysis	standards strain measurement
ME P-308 aircraft	measure theory	synoptic measurement
USE P-308 aircraft	USE measure and integration	temperature measurement
meadowlands	_	thrust measurement
USE grasslands	∞ measurement	time measurement trajectory measurement
MEAM (physical chemistry)	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	ultrasonic densimeters
(added February 1998)	LISTED BELOW)  DEF The technical action required to assign	units of measurement
USE embedded atom method	values (numbers) to represent certain properties	velocity measurement vibration measurement
maan	or attributes, using rules based on scientific	weight measurement
mean GS average	laws. Used for determination, measuring, and	wind measurement
. mean	quantization. UF <i>determination</i>	
moments	measuring	∞ measures SN (USE OF A MORE SPECIFIC TERM IS
. distribution moments <b>mean</b>	quantization	RECOMMENDEDCONSULT THE TERMS
RT median (statistics)	RT acceleration measurement	LISTED BELOW) RT criteria
mode (statistics)	accuracy acoustic measurement	∞ measurement
normality	airborne range and orbit	standards
quality control range (extremes)	determination	manager win a
statistical analysis	aircraft instruments analog data	measuring USE measurement
variance (statistics)	astrometry	ool mododromone
mean free path	audiometry	measuring instruments
DEF Of any particle, the average distance	chemical analysis	UF fluxmeters
that a particle travels between successive colli-	confidence limits consistency	gages meters
sions with the other particles of an ensemble.	counting	rate meters
Specifically, the average distance traveled by the molecules of a perfect gas between con-	∞ data	GS measuring instruments
secutive collisions with one another. For any	definition	. accelerometers
process the reciprocal of the cross section per	densimeters density measurement	strain gage accelerometers . ammeters
unit volume for that process.	depth measurement	micromilliammeters
RT collision parameters  ∞ cross sections	detection	thermoelement ammeters
Knudsen flow	dilatometry	. analyzers
particle collisions	dimensional measurement Downrange Antimissile Measurement	engine analyzers signal analyzers
particle motion	Program	. anemometers
∞ paths scattering	downrange measurement	drag force anemometers
vacuum	drag measurement	hot-film anemometers
	Earth terminal measurement system electrical measurement	hot-wire anemometers laser anemometers
mean square values  DEF In statistics, values representing the	electromagnetic measurement	sonic anemometers
average of the sum of the squares of the devia-	electromagnetic noise measurement	. balloon-borne instruments
tions from the mean value.	ellipsometry estimating	. bathymeters . burettes
GS analysis (mathematics) . numerical analysis	evaluation	. calorimeters
approximation	examination	bomb calorimeters
mean square values	flow measurement	drop calorimeters
RT algorithms	frequency measurement friction measurement	flame calorimeters . comparators
error analysis least squares method	gamma ray absorptiometry	. conductivity meters
icast squares memod	geometry	electrical conductivity meters
mean time between failures	gravimetry heat measurement	. coulometers . counters
USE MTBF	high alt target and background	radiation counters
meanders	measurement	Cerenkov counters
DEF Freely developing sinuous curves,	humidity measurement	electron counters
bends, loops, turns, or windings in the courses of streams. They are produced by mature	identifying in situ measurement	Geiger counters neutron counters
streams 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 the convex side of an original curve.	longitude measurement macroscopic equations	proportional counters quantum counters
RT open channel flow rapids	magnetic measurement	scintillation counters
river basins	∞ measures	spark chambers
rivers	measuring instruments	. deformeters
streams	mechanical measurement metrology	. densimeters ultrasonic densimeters
topography valleys	monitors	. densitometers
•	noise measurement	microdensitometers
measure and integration	nonintrusive measurement	. distance measuring equipment
UF integration (real variables) measure theory	optical measurement optometry	altimeters laser altimeters
Riemann integral	photographic measurement	radio altimeters
GS analysis (mathematics)	pneumography	geodimeters
. real variables measure and integration	precipitation measurement pressure measurement	range finders optical range finders
binary integration	pressure measurement proving	optical range finders
Borel sets	pupillometry	stadimeters
functional integration	radar measurement	tellurometers
integral calculus	radiation measurement	. dynamometers

#### measuring instruments

. elastometers . . Advanced Microwave Sounding photodetectors electrometers . . . microwave radiometers . electron probes moisture meters . . . . Advanced Microwave Sounding . 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 ... MODIS (radiometry) flame probes . 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 oculometers
 optical pyrometers
 optical range finders
 laser range finders
 photogoniometers . . Ebert spectrometers . radiogoniometers . electrostatic probes
. Fabry-Perot spectrometers . gravimeters gravity gradiometers . . hodoscopes
. . infrared instruments photometers . heliometers .. electrophotometers
 .. ultraviolet spectrometers
 .. high dispersion spectrographs
 .. Total Ozone Mapping infrared detectors . FLIR detectors pyroheliometers hydrometers . hypsometers . impedance probes infrared radiometers . Advanced Very High . radio frequency impedance probes Spectrometer Resolution Radiometer indicating instruments quantum well infrared infrared scanners . approach indicators photodetectors .... visible infrared spin scan 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 . thermobalances . Senarmont polariscopes electron counters potentiometers (instruments) Geiger counters interferometers . pressure gages neutron counters . neutron spectrometers
particle telescopes
proportional counters . barometers etalons Fabry-Perot interferometers . . manometers infrared interferometers
Mach-Zehnder interferometers osmometers piezoelectric gages quantum counters Michelson interferometers scintillation counters piezometers microwave interferometers phase switching interferometers radio interferometers vacuum gages spark chambers ionization gages . radiation detectors alphatrons dosimeters . ion probes Bayard-Alpert ionization gages threshold detectors (dosimeters) 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

radiometer
. . . . quantum well infrared

. . rawinsondes

. . ozonesondes

. spectrometers

. microwave probes

. microwave sensors

microwave plasma probes

. . Ebert spectrometers recording instruments vibration tests . . Fabry-Perot spectrometers remote sensors . gamma ray spectrometers mechanical fingers rocket-borne instruments USE imaging spectrometers Ronchi test end effectors satellite instruments . . infrared spectrometers mechanical hands ∞ sensors ... filter wheel infrared spectrometers USE end effectors sound detecting and ranging . . laser spectrometers spacecraft instruments . . mass spectrometers mechanical impedance synchroscopes . . microwave spectrometers impedance telemetry . . neutron spectrometers . mechanical impedance ∞ test equipment . . Solar Backscatter UV attenuation transducers Spectrometer damping ultrasonic scanners . . solar spectrometers friction Venturi tubes . . spectroheliographs impedance measurement Wheatstone bridges . . time of flight spectrometers wind tunnel calibration . . ultraviolet spectrometers mechanical measurement (MEASUREMENT OF MECHANICAL PROPERTIES, QUANTITIES OR CONDITIONS) ... high dispersion spectrographs . . . Total Ozone Mapping mecamylamine Spectrometer mechanical measurement GS organic compounds . . Alpha Magnetic Spectrometer . displacement measurement amines . . x ray spectrometers . sputtering gages drag measurement . mecamylamine . flow measurement terpenes . strain gages particle image velocimetry mecamylamine . temperature measuring instruments . friction measurement . . bathythermographs . pressure measurement optical pyrometers
 pneumatic probes
 pyrometers
 radiation pyrometers . stress measurement mechanical devices . x ray stress measurement cams . thrust measurement clamps . velocity measurement clips thermocouple pyrometers particle image velocimetry
 wind velocity measurement
 vibration measurement clutches temperature probes ∞ devices .. thermometers ∞ equipment . resistance thermometers . wind measurement holders . . wind velocity measurement accelerometers acoustic measurement . tensiometers jigs . tensometers levers . thermal conductivity gages linkages . tiltmeters deformeters machine tools . time measuring instruments density measurement ∞ mechanism . . clocks depth measurement mechanization . . . atomic clocks dynamometers tools autonomous spacecraft clocks extensometers . . . chronometers flowmeters . timing devices ∞ measurement mechanical drawings . titrimeters strain gages USE engineering drawings . torquemeters tensiometers . turbulence meters torquemeters . vibration meters weight indicators mechanical drives . . seismographs . lunar seismographs rotary drives mechanical oscillators GS mechanical drives . viscometers GS oscillators . mechanical oscillators . voltmeters magnetic tape transports . propeller drive . . millivoltmeters . . pendulums wattmeters helicopter propeller drive . . gyroscopic pendulums aircraft instruments transmissions (machine elements) electric choppers clutches automatic control harmonic oscillators counter-rotating wheels automatic test equipment reciprocation bioinstrumentation coupling resonant vibration calibrating circumsolar telescopes control moment gyroscopes couplings vibration ∞ drives mechanical properties
UF material strength
meteorite compression tests ∞ dear controllers gear teeth detectors dears magnetoelectric media strength of materials mechanical properties drag measurement power transmission duochromators shafts (machine elements) electric bridges brittleness vehicle wheels electrical measurement . bulk modulus wind tunnel drives flight instruments . cold strength windmills (windpowered machines) forest fire detection . 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 design, development and operation of machines ∞ instruments International System of Units including mechanical devices and prime movlaboratory equipment ers, vehicles, machine tools, and manufacturing . creep strength landing instruments . dimensional stability large aperture seismic array RT aeronautical engineering . . structural stability local scientific survey module aerospace engineering . shell stability lunar rangefinding ∞ engineering . ductility . earthquake resistance ∞ measurement fluid flow metrology flywheels . elastic properties . . aeroelasticity microinstrumentation furnaces heat transfer . . . aeroservoelasticity monitors navigation instruments machine tools . . . aerothermoelasticity . anelasticity
. elastoplasticity ∞ probes ∞ machinery propellant actuated instruments maintenance radio probing radio telemetry materials handling . . hydroelasticity . hypoelasticity stress analysis

thermodynamics

rapid ballistics identification

. . magnetostriction

	modulus of elasticity	c	properties		hydrodynamics
	dynamic modulus of elasticity		radiation effects		elastohydrodynamics
	photoelasticity		reliability		electrohydrodynamics
	photoviscoelasticity	0	∘ rigidity		magnetohydrodynamics
			roughness		rotons
	proportional limit				
	thermoelasticity		ruggedness		vortex shedding
	aerothermoelasticity		shear strain		hydromechanics
	viscoelasticity		shear stress		hydrodynamics
	•		shock resistance		elastohydrodynamics
	photoviscoelasticity		solid mechanics		electrohydrodynamics
	thermoviscoelasticity		specifications		magnetohydrodynamics
	ferroelasticity		specimen geometry		hydrostatics
	electrostriction				
	. fatigue life		strain rate		magnetohydrostatics
	. fiber strength	٥	∘ strength		pneumatics
	. flexibility		stress concentration		. solid mechanics
	•		stresses		fracture mechanics
	. fracture strength		structural failure		. computational mechanics
	flexural strength		supercooling		. continuum mechanics
	. hardness		surface defects		. flight mechanics
	microhardness			DT.	
	Knoop hardness		surface properties	nı °	o dynamics
	Rockwell hardness		surface roughness		electromechanics
			tearing	0	∘ hydraulics
	. Vickers hardness		temperature inversions		kinematics
	. high strength		textures		kinetics
	. impact strength		tolerances (mechanics)		loads (forces)
	malleability				
	. modular ratios		triaxial stresses	c	∘ mechanism
			triboluminescence		megamechanics
	. notch strength		weathering		micromechanics
	. piezoelectricity		•		statics
	. plastic properties	mechar	nical resonance		statistical mechanics
	elastoplasticity				Statistical mechanics
	photoplasticity	USE	resonant vibration		
				mecha	nism
	superplasticity	mechai	nical shock	SN	(USE OF A MORE SPECIFIC TERM IS
	thermoplasticity	UF	jarring		RECOMMENDEDCONSULT THE TERMS
	viscoplasticity	GS	mechanical shock		LISTED BELOW)
	. yield point	do		RT •	machinery
	. Poisson ratio		. hydraulic shock		mechanical devices
		RT	acceleration (physics)		mechanics (physics)
	. resilience		high acceleration		• methodology
	. set		hypervelocity impact		· methodology
	. shear properties		impact		-!*!
	shear strength			mechai	
	. stiffness		impact acceleration	RI ∘	automation
	. stress cycles	0	∘ shock		data processing
			shock absorbers		depersonalization
	. stress ratio		shock resistance	0	• machinery
	. stress relaxation		shock spectra	Ĭ	-
	. tensile properties				man machine systems
	tensile strength		shock waves		mechanical devices
			vibration	c	operations
	. thermal resistance				systems engineering
	. toughness	mechai	nical twinning		
	notch sensitivity	GS	twinning		tooling
	. wear resistance	ao	3		tools
	abrasion resistance		mechanical twinning		
		RT	crystal defects	mechai	nograms
	. weld strength		crystal growth	GS	measuring instruments
	. yield strength		crystal structure	0.0	. mechanograms
	load carrying capacity		work hardening		
	microyield strength		work narderling		medical equipment
RT	acoustic properties				. mechanograms
	aging (materials)		nics (physics)		recording instruments
		SN	(LIMITED TO GENERAL DISCUSSIONS		. mechanograms
	anisotropy		OF THE BROAD BRANCH OF PHYSICS	RT	muscular function
	buoyancy		RELATED TO MOTION AND THE		maccara. rancaci.
	cast alloys		BEHAVIOR OF PHYSICAL SYSTEMS. USE OF A MORE SPECIFIC TERM IS		
	coefficients		RECOMMENDED.)		noreceptors
	compressing	DEF	The branch of physics that studies the		Nerve endings that react to mechan
					uli, such as touch, tension, and acce
	compression loads		of bodies and the behavior of physical	eration.	
	deformation		s under the influence of internal and	GS	anatomy
	durability	externa	I forces.	0.0	. sense organs
	elongation	GS	mechanics (physics)		
	fatigue (materials)		. classical mechanics		mechanoreceptors
	ferritic stainless steels		space mechanics		receptors (physiology)
			•		. mechanoreceptors
	fiber orientation		astrodynamics	RT	sensitometry
	flatness		celestial mechanics		,
c	∞ high resistance		orbital mechanics	meclizi	no
	hysteresis		Kepler laws		
	impedance		minimum variance orbit	GS	halogen compounds
					. chlorine compounds
	interfacial tension		determination		meclizine
	interference fit		. quantum mechanics		organic compounds
	internal friction		Pauli exclusion principle		. cyclic compounds
	isotropy		quantum electrodynamics		
	J integral		. fluid mechanics		heterocyclic compounds
					azines
	∞ low resistance		fluid dynamics		meclizine
С	∞ materials		computational fluid dynamics		pyrazines
с	∞ materials tests		gas dynamics		
	∞ metallurgy		aerodynamics		. azines
c					meclizine
	micromechanics		aerothermodynamics		
	microporosity		hypersonics	media	
	nanoindentation		rotor aerodynamics		(EVCLUDES COMMUNICATION
	peeling		supersonics	SN	(EXCLUDES COMMUNICATION TECHNIQUES)
	permeability		unsteady aerodynamics	GS	media
				GS	
С	∞ physical properties		interactional aerodynamics		. anisotropic media
	propellant properties		rarefied gas dynamics		anisotropic fluids

. elastic media	. aerospace medicine	microelectronics
. intergalactic media	aviation psychology	. medium scale integration
. interplanetary medium	space psychology	RT electronic packaging
interplanetary dust	. anesthesiology	large scale integration
meteoroid dust clouds	. cardiology	molecular electronics
zodiacal dust	. clinical medicine	printed circuits
interplanetary gas	. dentistry	•
RT ∞ channels	. dermatology	meetings
	. endocrinology	USE conferences
median (statistics)	. epidemiology	
RT average	. geriatrics	megalopolises
distribution moments	. gynecology	RT cities
errors	. histology	communities
mean	. immunology	demography
mode (statistics)	. neurology	industrial areas
normality	. nuclear medicine	regional planning
norms	radiobiology	residential areas
quality control	. ophthalmology	rural areas
statistical analysis	. orthopedics	suburban areas
∞ tests	. otolaryngology	urban development
	. otology	urban transportation
mediastinum	. pathology	and an anoportation
RT septum	human pathology	megamechanics
tissues (biology)	. pharmacology	RT large space structures
( 37)	psychopharmacology	mechanics (physics)
mediation	. psychiatry	structural analysis
RT labor	neuropsychiatry	structural engineering
management planning	social psychiatry	0 0
0 1 0	. radiology	trusses
medical electronics	. radiopathology	14-1
RT echoencephalography	. sports medicine	Meissner effect
electrocardiography	•	USE diamagnetism
electroencephalography	. surgery	superconductivity
electromyography	labyrinthectomy	
∞ electronics	. symptomology	meitnerium
electroplethysmography	. urology	(added May 1998)
electroretinography	. veterinary medicine	GS chemical elements
telemedicine	RT ∞ biology	. meitnerium
telemedicine	diagnosis	RT hassium
medical equipment	diseases	
GS medical equipment	first aid	melamine
. artificial cardiac pacemaker	∞ medicine	GS organic compounds
. artificial heart valves	optometry	. amines
	pneumothorax	melamine
. blood pumps	psychopharmacology	RT resins
. cardiotachometers	radiation therapy	
. endoscopes	∞ science	melanin
. mechanograms	telemedicine	GS biopolymers
. prosthetic devices	transfusion	. proteins
artificial ears		melanin
. respirators	medical services	organic compounds
. stethoscopes	GS services	. proteins
. stretchers	. medical services	· · · · · · · · · · · · · · · · · · ·
. surgical instruments	RT ambulances	<b>melanin</b> pigments
. syringes	first aid	
. tourniquets	intravenous procedures	. melanin
. x ray apparatus	mobile quarantine facility	RT dopa
lixiscopes	public health	skin (anatomy)
x ray tubes	telemedicine	
RT cardiography	totomoutomo	melanoidin
dentistry	∞ medicine	GS acids
diagnosis		. amino acids
echoencephalography	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	melanoidin
electroencephalography	LISTED BELOW)	organic compounds
emergency life sustaining systems	RT aerospace medicine	. amino acids
∞ equipment	clinical medicine	melanoidin
first aid	drugs	
fluoroscopy	medical equipment	melatonin
hospitals	medical personnel	(added August 2004)
IMBLMS	medical science	DEF A biogenic amine that is found in ani
∞ medicine	neuropsychiatry	mals and plants. In mammals, melatonin is
microtomy	pharmacology	produced by the pineal gland. Its secretion in
mobile quarantine facility	psychopharmacology	creases in darkness and decreases during ex
telemedicine	radiobiology	posure to light. Melatonin is implicated in the
therapy	radiology	regulation of sleep, mood, and reproduction
···	veterinary medicine	Melatonin is also an effective antioxidant.
medical personnel	•	GS organic compounds
GS personnel	Mediterranean Sea	. amines
. medical personnel	GS seas	tryptamines
flight nurses	. Mediterranean Sea	melatonin
physicians	Adriatic Sea	. cyclic compounds
surgeons	RT Cyprus	heterocyclic compounds
flight surgeons	Gibraltar	indoles
RT ∞ medicine	Malta	
111 ™ IIIEUIUIIE	Rhone Delta (France)	tryptamines
medical phenomena	Sicily	<b>melatonin</b> RT antioxidants
medical phenomena	Sicily	
RT diving (underwater)	modium cools internation	hormones
phenomenology	medium scale integration	moods
medical calcus.	GS circuits	photoperiod
medical science	. integrated circuits	pineal gland
GS medical science	medium scale integration	secretions

sieep	are formed during the cooling or solidifying	RT education
Mellin transforms	process. GS melts (crystal growth)	learning mnemonics
GS functions (mathematics)	. containerless melts	recognition
. Mellin transforms	. impact melts	retention (psychology)
RT integral equations	. melt spinning	retention (psychology)
kernel functions	RT atomic structure	memory (computers)
Remortanesis	crystal growth	DEF The component of a computer, control
melt spinning	crystallization	system, guidance system, instrumented satel-
DEF A material process by which polymers	float zones	lite, or the like, designed to provide ready access
such as nylon and polyesters and glass are		to data or instructions previously recorded so as
melted to permit extrusion into fibers through	Marangoni convection melting	to make them bear upon an immediate problem,
spinnerets.	semiconductors (materials)	such as the guidance of a physical object, or the
GS crystallization	Semiconductors (materials)	analysis and reduction of data.
. melt spinning	MEM (excursion module)	GS memory (computers)
melts (crystal growth)	USE Mars Excursion Module	. random access memory
. melt spinning	OOL Mais Excursion Module	•
solidification	membership functions	core storage . associative memory
. melt spinning	(added December 2000)	. distributed memory
RT ∞ metallurgy	DEF Characteristic functions of a fuzzy set,	
phase transformations	which assign a value indicating the degree of	. optical memory (data storage) RT architecture (computers)
phase transformations	membership for each element in a universal set.	( , , , , , , , , , , , , , , , , , , ,
melting	GS functions (mathematics)	chips (memory devices)
UF remelting	. membership functions	computer design
thawing	RT control systems design	computer storage devices
GS phase transformations	fuzzy sets	computers
. melting		hole burning
3	fuzzy systems	magnetic disks
arc melting fusion (melting)	machine learning	video disks
levitation melting	neural nets	MEMS (alastromashanias) devices
o o	membrane analogy	MEMS (electromechanical devices)
vacuum melting	USE membrane structures	(added October 1998)
zone melting		USE microelectromechanical systems
RT ablation	structural analysis	
aufeis (ice)	membrane structures	mendelevium
burnthrough (failure)		GS chemical elements
casting	DEF Shell structures, often pressurized,	. actinide series
coal liquefaction	that do not take wall bending or compression	transuranium elements
containerless melts	loads. Used for membrane analogy.	mendelevium
cooling	UF membrane analogy	. nuclides
defrosting	GS membranes	isotopes
deicing	. membrane structures	radioactive isotopes
drop transfer	skin (structural member)	transuranium elements
extraction	structural members	mendelevium
freezing	membrane structures	metals
furnaces	skin (structural member)	. actinide series
heat of fusion	RT diaphragms (mechanics)	transuranium elements
heating	metal shells	mendelevium
ice prevention	perforated shells	
impact melts	Scotchlite (trademark)	meningitis
induction heating	∞ sheets	GS diseases
injection molding	shells (structural forms)	. infectious diseases
liquefaction	∞ structures	meningitis
liquid metals	thin walled shells	RT acquired immunodeficiency syndrome
liquid-solid interfaces	webs (supports)	bacterial diseases
melts (crystal growth)		viral diseases
metal cutting	membrane theory	
metal foams	USE structural analysis	menisci
∞ metallurgy		GS liquid surfaces
molds		GS liquid surfaces
IIIOlus	membranes	. menisci
	UF webs (membranes)	
phase change materials	UF webs (membranes) GS membranes	. menisci
	UF webs (membranes) GS membranes . cell membranes (biology)	. <b>menisci</b> RT Bond number
phase change materials pseudopotentials	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes	. <b>menisci</b> RT Bond number curves (geometry)
phase change materials pseudopotentials ∞ separation	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva	. menisci RT Bond number curves (geometry) liquid-gas mixtures
phase change materials pseudopotentials ∞ separation smelting solar furnaces	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium	. menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces
phase change materials pseudopotentials ∞ separation smelting	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium . ion exchange membrane electrolytes	. menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces
phase change materials pseudopotentials ∞ separation smelting solar furnaces spiking	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium	. menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces
phase change materials pseudopotentials ∞ separation smelting solar furnaces spiking melting points	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium . ion exchange membrane electrolytes	. menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces ∞ surfaces
phase change materials pseudopotentials ∞ separation smelting solar furnaces spiking  melting points  DEF liquidus and solidus coincide at an	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium . ion exchange membrane electrolytes . membrane structures	. menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces ∞ surfaces menstruation
phase change materials pseudopotentials  ∞ separation smelting solar furnaces spiking  melting points  DEF liquidus and solidus coincide at an invariant point. In a phase diagram, the tem-	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium . ion exchange membrane electrolytes . membrane structures skin (structural member) . peritoneum . pleurae	menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces ∞ surfaces  menstruation RT females ovaries
phase change materials pseudopotentials ∞ separation smelting solar furnaces spiking  melting points  DEF liquidus and solidus coincide at an	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium . ion exchange membrane electrolytes . membrane structures skin (structural member) . peritoneum	menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces ∞ surfaces  menstruation RT females
phase change materials pseudopotentials ∞ separation smelting solar furnaces spiking  melting points  DEF liquidus and solidus coincide at an invariant point. In a phase diagram, the temperature at which the UF freezing points	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium . ion exchange membrane electrolytes . membrane structures . skin (structural member) . peritoneum . pleurae	menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces ∞ surfaces  menstruation RT females ovaries
phase change materials pseudopotentials ∞ separation smelting solar furnaces spiking  melting points  DEF liquidus and solidus coincide at an invariant point. In a phase diagram, the tem- perature at which the UF freezing points GS thermodynamic properties	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium . ion exchange membrane electrolytes . membrane structures skin (structural member) . peritoneum . pleurae RT biofilms	menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces ∞ surfaces  menstruation RT females ovaries physiology
phase change materials pseudopotentials  ∞ separation smelting solar furnaces spiking  melting points  DEF liquidus and solidus coincide at an invariant point. In a phase diagram, the temperature at which the UF freezing points GS thermodynamic properties . thermophysical properties	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium . ion exchange membrane electrolytes . membrane structures skin (structural member) . peritoneum . pleurae RT biofilms ∞ diaphragms	menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces ∞ surfaces  menstruation RT females ovaries physiology  mental health GS health
phase change materials pseudopotentials	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium . ion exchange membrane electrolytes . membrane structures skin (structural member) . peritoneum . pleurae BT biofilms  od diaphragms diaphragms (mechanics) of films jet membrane process	menisci  RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces ∞ surfaces  menstruation  RT females ovaries physiology  mental health
phase change materials pseudopotentials  ∞ separation smelting solar furnaces spiking  melting points  DEF liquidus and solidus coincide at an invariant point. In a phase diagram, the tem- perature at which the  UF freezing points GS thermodynamic properties . thermophysical properties . melting points  RT high temperature tests	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium . ion exchange membrane electrolytes . membrane structures skin (structural member) . peritoneum . pleurae BT biofilms diaphragms diaphragms (mechanics) films	menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces ∞ surfaces  menstruation RT females ovaries physiology  mental health GS health mental health
phase change materials pseudopotentials  ∞ separation smelting solar furnaces spiking  melting points  DEF liquidus and solidus coincide at an invariant point. In a phase diagram, the temperature at which the  UF freezing points GS thermodynamic properties . thermophysical properties . melting points  RT high temperature tests liquid phases	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium . ion exchange membrane electrolytes . membrane structures skin (structural member) . peritoneum . pleurae BT biofilms  od diaphragms diaphragms (mechanics) of films jet membrane process	menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces ∞ surfaces  menstruation RT females ovaries physiology  mental health GS health . mental health RT human performance intelligence
phase change materials pseudopotentials  ∞ separation smelting solar furnaces spiking  melting points  DEF liquidus and solidus coincide at an invariant point. In a phase diagram, the temperature at which the  UF freezing points GS thermodynamic properties . thermophysical properties . melting points  RT high temperature tests liquid phases liquidus	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium . ion exchange membrane electrolytes . membrane structures skin (structural member) . peritoneum . pleurae RT biofilms	menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces surfaces  menstruation RT females ovaries physiology  mental health GS health mental health RT human performance
phase change materials pseudopotentials  ⇒ separation smelting solar furnaces spiking  melting points  DEF liquidus and solidus coincide at an invariant point. In a phase diagram, the temperature at which the  UF freezing points GS thermodynamic properties thermodynamic properties thermodynamic properties thermodynamic properties in melting points  RT high temperature tests liquid phases liquidus low temperature tests	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium . ion exchange membrane electrolytes . membrane structures skin (structural member) . peritoneum . pleurae RT biofilms	menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces ∞ surfaces  menstruation RT females ovaries physiology  mental health GS health . mental health RT human performance intelligence neuropsychiatry
phase change materials pseudopotentials  ∞ separation smelting solar furnaces spiking  melting points  DEF liquidus and solidus coincide at an invariant point. In a phase diagram, the tem- perature at which the UF freezing points GS thermodynamic properties . thermophysical properties . melting points  RT high temperature tests liquid phases liquidus low temperature tests phase diagrams	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium . ion exchange membrane electrolytes . membrane structures skin (structural member) . peritoneum . pleurae RT biofilms	menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces surfaces  menstruation RT females ovaries physiology  mental health GS health mental health RT human performance intelligence neuropsychiatry psychotherapy Rorschach tests
phase change materials pseudopotentials  ⇒ separation smelting solar furnaces spiking  melting points  DEF liquidus and solidus coincide at an invariant point. In a phase diagram, the tem- perature at which the  UF freezing points GS thermodynamic properties . thermophysical properties . melting points  RT high temperature tests liquid phases liquidus low temperature tests phase diagrams reaction bonding	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium . ion exchange membrane electrolytes . membrane structures skin (structural member) . peritoneum . pleurae BT biofilmsdiaphragmsdiaphragms (mechanics)ofilmsjet membrane processlayersosmosiseverse osmosisseymanta	menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces surfaces  menstruation RT females ovaries physiology  mental health GS health mental health RT human performance intelligence neuropsychiatry psychotherapy
phase change materials pseudopotentials  ⇒ separation smelting solar furnaces spiking  melting points  DEF liquidus and solidus coincide at an invariant point. In a phase diagram, the temperature at which the  UF freezing points GS thermodynamic properties thermophysical properties melting points  RT high temperature tests liquid phases liquidus low temperature tests phase diagrams reaction bonding solid solutions	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium . ion exchange membrane electrolytes . membrane structures skin (structural member) . peritoneum . pleurae BT biofilmsdiaphragmsdiaphragms (mechanics)filmsjet membrane processlayersosmosisreverse osmosisseptumsheets	menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces ∞ surfaces  menstruation RT females ovaries physiology  mental health GS health . mental health RT human performance intelligence neuropsychiatry psychotherapy Rorschach tests schizophrenia
phase change materials pseudopotentials ⇒ separation smelting solar furnaces spiking  melting points  DEF liquidus and solidus coincide at an invariant point. In a phase diagram, the temperature at which the UF freezing points GS thermodynamic properties . thermodynamic properties . melting points  RT high temperature tests liquid phases liquidus low temperature tests phase diagrams reaction bonding solid solutions solid state	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium . ion exchange membrane electrolytes . membrane structures skin (structural member) . peritoneum . pleurae RT biofilms	menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces ∞ surfaces  menstruation RT females ovaries physiology  mental health GS health mental health RT human performance intelligence neuropsychiatry psychotherapy Rorschach tests schizophrenia  mental performance
phase change materials pseudopotentials ⇒ separation smelting solar furnaces spiking  melting points  DEF liquidus and solidus coincide at an invariant point. In a phase diagram, the temperature at which the UF freezing points GS thermodynamic properties . thermophysical properties . melting points  RT high temperature tests liquid phases liquidus low temperature tests phase diagrams reaction bonding solid solutions solid state solidification	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium . ion exchange membrane electrolytes . membrane structures skin (structural member) . peritoneum . pleurae RT biofilms diaphragms diaphragms diaphragms (mechanics) films jet membrane process layers osmosis reverse osmosis septum sheets shells (structural forms) skin (anatomy)	menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces surfaces  menstruation RT females ovaries physiology  mental health GS health mental health RT human performance intelligence neuropsychiatry psychotherapy Rorschach tests schizophrenia  mental performance RT abilities
phase change materials pseudopotentials  ⇒ separation smelting solar furnaces spiking  melting points  DEF liquidus and solidus coincide at an invariant point. In a phase diagram, the tem- perature at which the  UF freezing points GS thermodynamic properties . thermophysical properties . melting points  RT high temperature tests liquid phases liquidus low temperature tests phase diagrams reaction bonding solid solutions solid state solidification solidified gases	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium . ion exchange membrane electrolytes . membrane structures skin (structural member) . peritoneum . pleurae biofilms  odiaphragms diaphragms (mechanics)  films jet membrane process  ilayers osmosis reverse osmosis septum  sheets shells (structural forms) skin (anatomy)  webs webs (sheets)	menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces ∞ surfaces  menstruation RT females ovaries physiology  mental health GS health mental health RT human performance intelligence neuropsychiatry psychotherapy Rorschach tests schizophrenia  mental performance RT abilities cognitive psychology
phase change materials pseudopotentials  ⇒ separation smelting solar furnaces spiking  melting points  DEF liquidus and solidus coincide at an invariant point. In a phase diagram, the temperature at which the  UF freezing points GS thermodynamic properties . thermodynamic properties . melting points  RT high temperature tests liquid phases liquidus low temperature tests phase diagrams reaction bonding solid solutions solid state solidification solidified gases specific heat	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium . ion exchange membrane electrolytes . membrane structures skin (structural member) . peritoneum . pleurae RT biofilms . diaphragms . diaphragms . diaphragms (mechanics) . films . jet membrane process . layers . osmosis . reverse osmosis . septum . sheets . shells (structural forms) . skin (anatomy) . webs	menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces ∞ surfaces  menstruation RT females ovaries physiology  mental health GS health . mental health RT human performance intelligence neuropsychiatry psychotherapy Rorschach tests schizophrenia  mental performance RT abilities cognitive psychology consciousness
phase change materials pseudopotentials  ⇒ separation smelting solar furnaces spiking  melting points  DEF liquidus and solidus coincide at an invariant point. In a phase diagram, the temperature at which the  UF freezing points GS thermodynamic properties . thermophysical properties . melting points  RT high temperature tests liquid phases liquidus low temperature tests phase diagrams reaction bonding solid solutions solid state solidification solidified gases specific heat temperature	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium . ion exchange membrane electrolytes . membrane structures skin (structural member) . peritoneum . pleurae biofilms  odiaphragms diaphragms (mechanics)  films jet membrane process  ilayers osmosis reverse osmosis septum  sheets shells (structural forms) skin (anatomy)  webs webs (sheets)	menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces ∞ surfaces  menstruation RT females ovaries physiology  mental health GS health mental health RT human performance intelligence neuropsychiatry psychotherapy Rorschach tests schizophrenia  mental performance RT abilities cognitive psychology consciousness human performance
phase change materials pseudopotentials  ⇒ separation smelting solar furnaces spiking  melting points  DEF liquidus and solidus coincide at an invariant point. In a phase diagram, the temperature at which the  UF freezing points GS thermodynamic properties . thermodynamic properties . melting points  RT high temperature tests liquid phases liquidus low temperature tests phase diagrams reaction bonding solid solutions solid state solidification solidified gases specific heat	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium . ion exchange membrane electrolytes . membrane structures skin (structural member) . peritoneum . pleurae RT biofilms diaphragms diaphragms (mechanics) films jet membrane process layers osmosis reverse osmosis septum sheets shells (structural forms) skin (anatomy) webs webs (sheets) webs (supports)	menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces ∞ surfaces  menstruation RT females ovaries physiology  mental health GS health mental health RT human performance intelligence neuropsychiatry psychotherapy Rorschach tests schizophrenia  mental performance RT abilities cognitive psychology consciousness human performance hypernea
phase change materials pseudopotentials  ⇒ separation smelting solar furnaces spiking  melting points  DEF liquidus and solidus coincide at an invariant point. In a phase diagram, the tem- perature at which the  UF freezing points GS thermodynamic properties . thermophysical properties . melting points  RT high temperature tests liquid phases liquidus low temperature tests phase diagrams reaction bonding solid solutions solid state solidification solidified gases specific heat temperature transition temperature	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium . ion exchange membrane electrolytes . membrane structures skin (structural member) . peritoneum . pleurae RT biofilms diaphragms diaphragms (mechanics) films jet membrane process layers osmosis reverse osmosis septum sheets shells (structural forms) skin (anatomy) webs webs (sheets) webs (supports)  memory SN (LIMITED TO SENTIENT ORGANISMS-EXCLUDES COMPUTER	menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces ∞ surfaces  menstruation RT females ovaries physiology  mental health GS health mental health RT human performance intelligence neuropsychiatry psychotherapy Rorschach tests schizophrenia  mental performance RT abilities cognitive psychology consciousness human performance hypernea inspiration
phase change materials pseudopotentials  ⇒ separation smelting solar furnaces spiking  melting points  DEF liquidus and solidus coincide at an invariant point. In a phase diagram, the temperature at which the  UF freezing points GS thermodynamic properties . thermophysical properties . melting points  RT high temperature tests liquid phases liquidus low temperature tests phase diagrams reaction bonding solid solutions solid state solidification solidified gases specific heat temperature	UF webs (membranes) GS membranes . cell membranes (biology) . choroid membranes . conjunctiva . epicardium . ion exchange membrane electrolytes . membrane structures . skin (structural member) . peritoneum . pleurae biofilms odiaphragms diaphragms (mechanics) ofilms jet membrane process osmosis reverse osmosis septum  sheets shells (structural forms) skin (anatomy) webs webs (sheets) webs (supports)  memory SN (LIMITED TO SENTIENT	menisci RT Bond number curves (geometry) liquid-gas mixtures liquid-solid interfaces liquid-vapor interfaces ∞ surfaces  menstruation RT females ovaries physiology  mental health GS health mental health RT human performance intelligence neuropsychiatry psychotherapy Rorschach tests schizophrenia  mental performance RT abilities cognitive psychology consciousness human performance hypernea

intelligence tests irrationality operator performance ∞ performance

psychomotor performance stress (psychology) workloads (psychophysiology)

## mental stress

USE stress (psychology)

#### menthol

organic compounds

. cyclic compounds

. . cyclic hydrocarbons

. . menthol

. hydrocarbons

. . cyclic hydrocarbons

... menthol terpenes

menthol

### meprobamate

GS esters

. meprobamate

mercaptan USE thiols

mercapto compounds USE thiols

#### Mercator projection

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 trajec-tories 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

transport aircraft

. short haul aircraft

. Mercure aircraft

RT ∞ aircraft

cargo aircraft passenger aircraft

#### mercury (metal)

liquid mercury

chemical elements

. mercury (metal)

. mercury isotopes
. mercury vapor

liauids

. 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

alloys

. mercury alloys

mercury amalgams

#### mercury arcs

electric current

. electric discharges

. . electric arcs

. mercury arcs

arc lamps metallic plasmas

rectifiers

#### Mercury atmosphere

environments

. extraterrestrial environments

. . planetary environments

... planetary atmospheres

. Mercury atmosphere

planetary meteorology

Mercury (planet) Mercury surface

# mercury cadmium tellurides

DEF Compounds of tellurium exhibiting photovoltaic characteristics and used for photophotovolialic dialacterisates and used for printed diodes and photodetectors in the 3 to 12 mi-crometer wavelengths at cryogenic tempera-tures. 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

RT 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.

GS 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

liquids

. liquid metals

. . mercury (metal)
. . . mercury isotopes

metals

. liquid metals

. . mercury (metal)

. transition metals

. . mercury (metal) ... mercury isotopes

mercury lamps GS lighting equipment

. luminaires

. 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

MA-2 mission UF

space flight . manned space flight

. . Mercury flights . Mercury MA-2 flight Atlas launch vehicles

Mercury MA-3 flight UF MA-3 flight

Faith 7

space flight . manned space flight

. . Mercury flights

. Mercury MA-3 flight Atlas launch vehicles

# Mercury MA-4 flight

MA-4 flight

GS space flight

. manned space flight . . Mercury flights

... Mercury MA-4 flight

RT Atlas launch vehicles manned space flight RT atmospheric circulation manned spacecraft flow geometry Mercury MA-5 flight wind (meteorology) UF MA-5 flight Mercury spacecraft wind direction GS space flight GS manned spacecraft zonal flow (meteorology) . manned space flight . Mercury spacecraft . . Mercury flights . . Aurora 7 Merlin (helicopter) . Mercury MA-5 flight (added April 1997) USE **EH-101 helicopter** . . Faith 7 Atlas launch vehicles . . Friendship 7 . SIGMA 7 Mercury MA-6 flight reentry vehicles meromorphic functions GS space flight GS analysis (mathematics) . recoverable spacecraft . complex variables . manned space flight ... Mercury spacecraft . . Mercury flights . . . Aurora 7 . Mercury MA-6 flight . . . elliptic functions ... Faith 7 Atlas launch vehicles . . rational functions Friendship 7 Friendship 7 SIGMA 7 functions (mathematics) . meromorphic functions soft landing spacecraft Mercury MA-7 flight elliptic functions . Mercury spacecraft GS space flight . . rational functions . . Aurora 7 . manned space flight . . Faith 7 . . Mercury flights Merritt Island (FL) Friendship 7 . . . Mercury MA-7 flight
Atlas launch vehicles GS landforms . SIGMA 7 . islands space capsules . Merritt Island (FL) Aurora 7 Mercury spacecraft Florida . . Aurora 7 Mercury MA-8 flight . . Faith 7 MA-8 flight merwinite . . Friendship 7 GS space flight GS calcium compounds . . SIGMA 7 . manned space flight . merwinite . . Mercury flights magnesium compounds Mercury surface .. Mercury MA-8 flight merwinite The surface of the planet Mercury. DFF Atlas launch vehicles minerals planetary surfaces GS SIGMA 7 . merwinite . Mercury surface extraterrestrial environments silicon compounds Mercury MA-9 flight . silicates Mercury (planet) MA-9 flight . . merwinite Mercury atmosphere MESSENGER (spacecraft) space flight . manned space flight mesas planetary craters . . Mercury flights Isolated, nearly level landmasses satellite surfaces standing distinctly above the surrounding coun-. Mercury MA-9 flight solar system Atlas launch vehicles try, bounded by abrupt or steeply sloping erosion terrestrial planets scarps on all sides, and capped by layers of Faith 7 resistant, nearly horizontal rock (often lava). mercury tellurides Less strictly, very broad, flat topped, usually isolated hills or mountains of moderate height Mercury MR-1 flight GS chalcogenides GS space flight . tellurides bounded on at least one side by a steep cliff or slope and representing an erosion remnant. . manned space flight . . mercury tellurides . . Mercury flights . . mercury cadmium tellurides . . . Mercury MR-1 flight Mesas are similar to, but have more summit mercury compounds area than buttes and are common topographical mercury tellurides features in arid and semiarid regions of the United States. Mesas are often considered Mercury MR-2 flight mercury cadmium tellurides GS space flight tellurium compounds . manned space flight broad terraces or comparatively flat plateaus . tellurides . . Mercury flights along river valleys. They are marked by an . . mercury tellurides ... Mercury MR-2 flight abrupt slope or escarpment on one side. . . . mercury cadmium tellurides landforms Mercury MR-3 flight . terraces (landforms) mercury vapor MR-3 flight . . plateaus GS GS chemical elements space flight ... mesas . mercury (metal) . manned space flight . . buttes . mercury vapor . . Mercury flights RT flats (landforms) liquids ... Mercury MR-3 flight highlands . liquid metals mountains Mercury MR-4 flight . . mercury (metal) ... mercury vapor GS space flight **MESFETs** . manned space flight metals USE field effect transistors . Mercury flights . liquid metals ... Mercury MR-4 flight . . mercury (metal) mesh ... mercury vapor RT fabrics mercury oxides . metal vapors ∞ arids GS chalcogenides mercury vapor strands . oxides . transition metals webbing . . metal oxides . . mercury (metal) webs ... mercury vapor ... mercury oxides mercury compounds vapors mesh (mathematics) mercury oxides . metal vapors USE computational grids . mercury vapor Mercury project RT cesium vapor mesh generation (mathematics) GS programs sodium vapor USE grid generation (mathematics) . NĂSA programs . . NASA space programs merging routines mesh refinement (mathematics) ... Mercury project computer programs (added August 2003) merging routines . projects USE grid refinement (mathematics) . Mercury project RT ∞ routines . space programs meshfree methods . . NASA space programs meridional flow (added April 2008) DEF Computational techniques that provide numerical solutions by using a set of arbitrarily distributed nodes (discretization points) and . . Mercury project GS fluid flow Apollo project Atlas launch vehicles . gas flow . . air flow

. . . air currents

.... meridional flow

weight functions without the use of mesh or grid

information in their formulations

Gemini project Little Joe 2 launch vehicle

metabolic diseases UF gridfree methods homosphere . . . . meson resonance meshless methods . . . . . X mesons Solar Mesosphere Explorer GS analysis (mathematics) . . . . muons stratopause numerical analysis . . . . omega-mesons . . approximation Mesozoic Era . . . . pions (added June 1989) ... meshfree methods . . . . vector mesons DEF An era of geologic time, from the end computational electromagnetics . . . . . rho-mesons of the Paleozoic Era to the beginning of the computational fluid dynamics . sigma-mesons computational mechanics . . hadrons Cenozoic Era, or from about 225 to about 65 finite element method million years ago. ... mesons Galerkin method GS Mesozoic Era . . . . eta-mesons Cretaceous Period integral equations . . . . hyperons kernel functions Cretaceous-Tertiary boundary . . . . . xi hyperons geochronology magnetohydrodynamic simulation . . . . kaons partial differential equations paleontology ... meson resonance particle in cell technique Paleozoic Era . X mesons plasma dynamics . . . . muons solid mechanics message processing . . . . omega-mesons DEF In communication operations, the acweighting functions . . . pions . . . . vector mesons ceptance, preparation for transmission, receipt and/or delivery of a series of words or symbols meshless methods . . . . . rho-mesons intended for conveying information. (added May 2008) ... sigma-mesons RT automatic repeat request USE meshfree methods . nuclear particles communicating . . bosons communication mesitylene . . . mesons cryptography GS organic compounds eta-mesons . hydrocarbons information flow . hyperons . . mesitylene messages . xi hyperons packet transmission kaons mesometeorology ∞ processing . . . . meson resonance GS meteorology semantics . X mesons . mesometeorology signal processing . . . . muons signal transmission aeronomy . . . . omega-mesons lower atmosphere symbols . . . . pions micrometeorology . . . . vector mesons messages .... rho-mesons meson resonance GS communicating . . . . sigma-mesons . information dissemination particles GS RT baryons . messages . elementary particles boson fields automatic repeat request . . bosons charged particles . . . mesons communication theory corpuscular radiation information theory . . . . meson resonance cosmic rays intelligibility . . X mesons gluons message processing . . fermions leptons ... meson resonance semantics meson-nucleon interactions sentences . X mesons muonium signal transmission . . hadrons Pomeranchuk theorem ∞ signals . . . mesons strangeness syllables . . . . meson resonance symbols . . . . . X mesons mesopause vocoders . nuclear particles (ALTITUDE APPROXIMATELY 90 KM) . . bosons words (language) The base of the inversion at the top of . . . mesons the mesosphere, usually found at 80 to 85 MESSENGER (spacecraft) .... meson resonance kilometers. (added October 2004) . . X mesons GS Earth atmosphere DEF Spacecraft and related mission deresonance . middle atmosphere signed to study the structure, geochemistry, and . meson resonance . . mesosphere magnetic fields of the planet Mercury. The sci-. X mesons .. mesopause ence payload consists of the Mercury Dual RT baryons RT stratopause Imaging System (MDIS), the Gamma-Ray and hyperons Neutron Spectrometer, the Mercury Laser Altimmesophiles eter, the Mercury Atmospheric and Surface meson-meson interactions RT microorganisms Composition Spectrometer, the Energetic Parparticle interactions psychrophiles ticle and Plasma Spectrometer, and a magneelementary particle interactions thermophiles tometer, radio science instrument, and x-ray meson-meson interactions spectrometer. MESSENGER (MErcury Surfacelectromagnetic interactions mesoscale phenomena e, Space ENvironment, Geochemistry, and Rang-Meteorological phenomena extending ing) was launched August 2004. approximately one to a hundred kilometers (me-GS interplanetary spacecraft

MESSENGER (spacecraft) meson-nucleon interactions soscale cloud patterns, for example). particle interactions GS mesoscale phenomena unmanned spacecraft elementary particle interactions . jet streams (meteorology) . space probes meson-nucleon interactions arc clouds MESSENGER (spacecraft) RT charged particles meteorology Mercury (planet) Mercury surface ∞ interactions phenomenology mesons wind (meteorology) planetary geology Yukawa potential planetary magnetic fields mesosphere space exploration mesons SN (ALTITUDE RANGE BETWEEN DEF In the classification of subatomic parspace missions APPROXIMATELY 45 AND 90 KM)
DEF The atmospheric shell, in which temperature generally decreases with heights, exticles by mass, the second lightest of such

tending from the stratopause at about 50 to 55 kilometers to the mesopause at about 80 to 85

Earth atmosphere

.. mesosphere

chemosphere

. . mesopause

Earth ionosphere

. middle atmosphere

kilometers.

RT

particles. Their mass is intermediate between

that of the lepton and the nucleon.

... eta-mesons

 $\dots \text{ hyperons}$ . xi hyperons

. elementary particles

particles

. . bosons

... mesons

. . . . kaons

GS

messenger RNA

ribonucleic acids

Messerschmitt ME P-160 aircraft

Messerschmitt ME P-308 aircraft

USE P-160 aircraft

USE P-308 aircraft

metabolic diseases

GS diseases

USE

БТ	. metabolic diseases	GS information	metal combustion
RT	metabolism	. metadata	RT fuel combustion
metabo	lic wastes	RT ∞ data	gas-metal interactions
GS	wastes	data bases	metals
us	. metabolic wastes	data management	oxidation
	. human wastes	indexing (information science)	propellant combustion
	feces	information retrieval	pyrophoric materials
	urine	motogolovy	solid propellant combustion
RT		metagalaxy	solid propellant ignition
n.	activated sludge air pollution	USE universe	
	carbon dioxide	metal air batteries	metal compounds
	composting	GS electric generators	SN (USE OF A MORE SPECIFIC TERM IS
	environment effects	. direct power generators	RECOMMENDEDCONSULT THE TERM LISTED BELOW)
	environment pollution	primary batteries	RT ∞ alkali metal compounds
	environmental surveys	metal air batteries	aluminum compounds
	expired air	zinc-oxygen batteries	ammines
	liquid wastes	electrochemical cells	antimony compounds
	manures	. electric batteries	barium compounds
	metabolites	primary batteries	beryllium compounds
	organic wastes (fuel conversion)	metal air batteries	bismuth compounds
	pollution	zinc-oxygen batteries	cadmium compounds
	sewage	RT dry cells	calcium compounds
	sewers	storage batteries	cerium compounds
	solid wastes	diorago battorios	cesium compounds
	waste disposal	metal bonding	∞ chemical compounds
	waste diopoedi	GS bonding	chromium compounds
metabo	lism	. metal bonding	cobalt compounds
	The sum of all physical and chemical	metal-metal bonding	copper compounds
	es by which living organized substance	RT adhesion	dysprosium compounds
	uced and maintained and by which en-	adhesive bonding	erbium compounds
	made available for the use of the organ-	bimetals	europium compounds
ism.	made available for the doe of the organ	brazing	gallium compounds
GS	metabolism	diffusion welding	germanium compounds
0.0	. adrenal metabolism	explosive welding	hafnium compounds
	. ascorbic acid metabolism	heat affected zone	indium compounds
	. calcium metabolism	joints (junctions)	iridium compounds
	. carbohydrate metabolism	laminates	iron compounds
	hyperglycemia	resin bonding	lanthanum compounds
	hypoglycemia	soldering	lead compounds
	. catabolism	welding	lead organic compounds
	. electrolyte metabolism	3	lithium compounds
	. enzyme activity	metal clusters	lithium iodates
	fermentation	(added January 1994)	lutetium compounds
	. hormone metabolisms	DEF Bonded aggregations of like metal at-	magnesium compounds
	. hydrogen metabolism	oms.	manganese compounds
	. hypometabolism	RT agglomeration	mercury compounds
	. mineral metabolism	atomic clusters	metal fluorides
	. nitrogen metabolism	chemisorption	metal halides
	. oxygen metabolism	clumps	metal hydrides
	. phosphorus metabolism	∞ clusters	metal oxides
	. protein metabolism	metals	metals
	lipid metabolism	molecular clusters	molybdenum compounds
RT	adenosine monophosphate	nanoclusters	neodymium compounds
	caloric requirements	nucleation	neptunium compounds
	enzymology		nickel compounds
	heterotrophs	metal coatings	niobium compounds
	homeostasis	SN (COATINGS CONSISTING OF METAL)	organic aluminum compounds
	Krebs cycle	GS coatings	organic germanium 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	cladding	protactinium compounds
	thermoregulation	corrosion	rare earth compounds
	vasopressins	corrosion prevention	refractory materials
		deposition	rhenium compounds
metabo		electroless deposition	rubidium compounds
DEF	Products of biological synthesis and/or	hot corrosion	ruthenium compounds
metabo		ion plating	samarium compounds
RT	biochemistry	lacquers	scandium compounds
	biosynthesis	magnetron sputtering	silver compounds
	metabolic wastes	metallizing	sodium compounds
	metabolism	∞ metallurgy	strontium compounds
	organic compounds	metals	strontium oxides
ma - 4	man estima	optical coatings	tantalum compounds
	mputing	oxides	technetium compounds
	ed December 2003)	paints	thallium compounds
USE	grid computing (computer	∞ plates	thorium compounds
	networks)	plating	thulium compounds
		primers (coatings)	tin compounds
metada		protective coatings	titanium compounds
_'	ed June 2004)	sprayed coatings	tungsten compounds
DEF other d	Data that provides information about	motal combustion	uranium compounds
	ata. Structured information describing	metal combustion	vanadium compounds
arry obj	ect or resource.	GS combustion	vanadyl compounds

	ytterbium compounds	tnin tiims		zinc fluorides zirconium fluorides
	yttrium compounds zinc compounds		RT.	∞ metal compounds
	zirconium compounds	metal finishing	111	~ metal compounds
	Zircomani compounds	GS metal finishing	metal f	oams
metal c	orrosion	. electropolishing	DEF	Foamed materials formed under low
	corrosion	. peening		conditions in space from sputtered metal
		shot peening RT cleaning		s. This experimental space processing
metal c	crystals	coating		mpleted in the second NASA SPAR flight.
GS	crystals	coating	GS	foams
	. metal crystals	descaling		. metal foams
RT	crystal lattices	pickling (metallurgy)	RT	bubbles
	crystal structure	plating		foaming
	metallography	surface finishing		low gravity manufacturing
	metals	g		∞ materials science
		metal fluorides		melting
metal o	•	GS halogen compounds	•	∞ metallurgy
us	cutting . metal cutting	. fluorine compounds		Space Processing Applications
RT	countersinking	fluorides		Rocket
n i	grinding (material removal)	metal fluorides	metal f	inila
	knurling	aluminum fluorides	GS	foils (materials)
	laser cutting	beryllium fluorides	45	. metal foils
	machine tools	cadmium fluorides	RT	honeycomb structures
	machining	calcium fluorides	111	metals
	melting	fluorspar		multilayer insulation
	micromachining	cesium fluorides		∞ sheets
	milling (machining)	chromium fluorides		
	perforating	cobalt fluorides	metal f	orging
	planing	copper fluorides	USE	forging
	plasma arc cutting	lanthanum fluorides		
	scarfing	lithium fluorides	metal f	
	shearing	magnesium fluorides	USE	forming techniques
	slicing	nickel fluorides		metal working
	spark machining	plutonium fluorides		
	spiking	protactinium fluorides sodium fluorides	metal f	
	luaia.a	strontium fluorides	GS	fuels
GS	forming techniques	thorium fluorides		. chemical fuels metal fuels
us	forming techniques . metal drawing	tungsten fluorides	RT	aluminum compounds
	metal working	uranium fluorides	111	beryllium compounds
	. metal drawing	zinc fluorides		boron compounds
RT	bulging	zirconium fluorides		cesium compounds
	bundle drawing	. halides		gelled propellants
	cold drawing	fluorides		hybrid propellants
	cold working	metal fluorides		lithium compounds
c	∞ drawing	aluminum fluorides		metals
	ductility	beryllium fluorides		slurry propellants
	hot working	cadmium fluorides		solid propellants
	magnetic forming	calcium fluorides		
	stretch forming	fluorspar		grinding
		cesium fluorides	GS	grinding (material removal)
metal f	3	chromium fluorides	DT	. metal grinding
GS	fatigue (materials)	cobalt fluorides copper fluorides	RT	forming techniques
RT	. metal fatigue	lanthanum fluorides		grinding machines surface finishing
ΠI	bending fatigue Coffin-Manson law	lithium fluorides		surface liftistiling
	crack closure	magnesium fluorides	metal h	alides
	crack initiation	nickel fluorides	GS	halogen compounds
	crack propagation	plutonium fluorides	40	. halides
	fracturing	protactinium fluorides		metal halides
	grain size	sodium fluorides		alkali halides
	inelastic stress	strontium fluorides		cesium halides
	retirement for cause	thorium fluorides		cesium bromides
	rupturing	tungsten fluorides		cesium fluorides
	Segre characteristic	uranium fluorides		cesium iodides
	short cracks	zinc fluorides		potassium iodides
	S-N diagrams	zirconium fluorides		sodium bromides
	stress corrosion	metal halides		sodium chlorides
	stress corrosion cracking	metal fluorides		sodium fluorides
	thermal fatigue	aluminum fluorides		sodium iodides
	transgranular corrosion	beryllium fluorides		aluminum chlorides
	ihara	cadmium fluorides		barium fluorides
metal f GS	fibers	calcium fluorides		beryllium chlorides cadmium chlorides
as	. metal fibers	fluorspar cesium fluorides		cadmium chlorides calcium chlorides
RT	Borsic (tradename)	cesium nuondes		chromium bromides
111	fiber composites	constituti indondes		copper chlorides
	filament winding	copper fluorides		hafnium iodides
	reinforcing fibers	lanthanum fluorides		iron chlorides
		lithium fluorides		lanthanum chlorides
metal f	ilms	magnesium fluorides		lead chlorides
RT	coatings	nickel fluorides		lithium chlorides
	diamond films	plutonium fluorides		magnesium bromides
c	∞ films	protactinium fluorides		metal fluorides
	metallizing	sodium fluorides		aluminum fluorides
	metals	strontium fluorides		beryllium fluorides
	nickel coatings	thorium fluorides		cadmium fluorides
	pickling (metallurgy)	tungsten fluorides		calcium fluorides
	sputtering gages	uranium fluorides		fluorspar

# metal hydrides

cesium fluorides	chemical compatibility	mixed oxides
chromium fluorides	crack bridging	BSCCO superconductors
cobalt fluorides	electrodeposition	YBCO superconductors
copper fluorides	fiber composites	molybdenum oxides
lanthanum fluorides	fiber pullout	nickel oxides
lithium fluorides	fiber pushout	niobium oxides
magnesium fluorides	fibers	platinum oxides
nickel fluorides	functionally gradient materials	plutonium oxides
plutonium fluorides	hybrid composites	potassium oxides
protactinium fluorides	∞ materials	scandium oxides
sodium fluorides	∞ matrices	silver oxides
strontium fluorides	matrix materials	sodium peroxides
thorium fluorides	monotectic alloys	strontium oxides
tungsten fluorides	particulate reinforced composites	tantalum oxides
uranium fluorides	plasma spraying	thorium oxides
zinc fluorides	powder metallurgy	tin oxides
zirconium fluorides	reinforcing fibers	titanium oxides
niobium iodides	resin matrix composites	anatase
potassium bromides	squeeze casting	ilmenite
potassium chlorides	whisker composites	rutile
silver halides		tungsten oxides
silver bromides	metal nitrides	scheelite
silver chlorides	GS nitrogen compounds	uranium oxides
silver iodides	. nitrides	vanadium oxides
strontium bromides	metal nitrides	yttrium oxides
technetium fluorides	aluminum nitrides	zinc oxides
titanium chlorides	beryllium nitrides	zirconium oxides
tungsten halides	gallium nitrides	yttria-stabilized zirconia
tungsten chlorides	tantalum nitrides	RT cathodic coatings
tungsten fluorides	titanium nitrides	high temperature superconductors
zinc chlorides	zirconium nitrides	∞ metal compounds
	RT transition metals	oxide films
zirconium iodides	TTT transition metals	
RT ∞ metal compounds	metal organic chemical vapor deposition	vanadates
and the same of th	USE metalorganic chemical vapor	metal neutiales
metal hardening	deposition	metal particles
USE hardening (materials)	deposition	GS particles
	makel and a constraint decade of	metal particles
metal hydrides	metal oxide semiconductors	metal powder
UF plumbane	UF MOS (semiconductors)	platinum black
GS hydrogen compounds	GS electronic equipment	powdered aluminum
. hydrides	. solid state devices	sintered aluminum powder
metal hydrides	semiconductor devices	RT particulate reinforced composites
aluminum hydrides	metal oxide semiconductors	powder metallurgy
aluminum borohydrides	CMOS	· · · · · · · · · · · · · · · · · · ·
		scrap
	ITO (semiconductors)	scrap sputtering
beryllium hydrides	ITO (semiconductors)	scrap sputtering
beryllium hydrides cesium hydrides	ITO (semiconductors) SOS (semiconductors)	sputtering
beryllium hydrides cesium hydrides lithium hydrides	ITO (semiconductors) SOS (semiconductors) semiconductors (materials)	sputtering metal plates
beryllium hydrides cesium hydrides lithium hydrides lithium aluminum hydrides	ITO (semiconductors) SOS (semiconductors) semiconductors (materials) . metal oxide semiconductors	sputtering  metal plates  UF plate (metal)
beryllium hydrides cesium hydrides lithium hydrides lithium aluminum hydrides potassium hydrides	ITO (semiconductors) SOS (semiconductors) semiconductors (materials) . metal oxide semiconductors CMOS	sputtering  metal plates  UF plate (metal)  GS structural members
beryllium hydrides cesium hydrides lithium hydrides lithium aluminum hydrides potassium hydrides sodium hydrides	ITO (semiconductors) SOS (semiconductors) semiconductors (materials) . metal oxide semiconductors . CMOS . ITO (semiconductors)	sputtering  metal plates  UF plate (metal)  GS structural members . plates (structural members)
beryllium hydrides cesium hydrides lithium hydrides lithium aluminum hydrides potassium hydrides	ITO (semiconductors) SOS (semiconductors) semiconductors (materials) . metal oxide semiconductors CMOS ITO (semiconductors) SOS (semiconductors)	sputtering  metal plates  UF plate (metal)  GS structural members . plates (structural members) metal plates
beryllium hydrides cesium hydrides lithium hydrides lithium aluminum hydrides potassium hydrides sodium hydrides RT ∞ metal compounds	ITO (semiconductors) SOS (semiconductors) semiconductors (materials) . metal oxide semiconductors CMOS ITO (semiconductors) SOS (semiconductors) RT capacitance-voltage characteristics	sputtering  metal plates  UF plate (metal)  GS structural members  . plates (structural members)  . metal plates  boiler plate
beryllium hydrides cesium hydrides lithium hydrides lithium aluminum hydrides potassium hydrides sodium hydrides RT ∞ metal compounds  metal insulator semiconductors	ITO (semiconductors) SOS (semiconductors) semiconductors (materials) . metal oxide semiconductors CMOS ITO (semiconductors) SOS (semiconductors) RT capacitance-voltage characteristics ion implantation	sputtering  metal plates  UF plate (metal)  GS structural members . plates (structural members) . metal plates boiler plate  RT armor
beryllium hydrides cesium hydrides lithium hydrides lithium aluminum hydrides potassium hydrides sodium hydrides RT ∞ metal compounds	ITO (semiconductors) SOS (semiconductors) semiconductors (materials) . metal oxide semiconductors CMOS ITO (semiconductors) SOS (semiconductors) RT capacitance-voltage characteristics ion implantation rectifiers	sputtering  metal plates  UF plate (metal)  GS structural members  . plates (structural members)  . metal plates  boiler plate  RT armor  bars
beryllium hydrides cesium hydrides lithium hydrides lithium aluminum hydrides potassium hydrides sodium hydrides RT ∞ metal compounds  metal insulator semiconductors USE MIS (semiconductors)	ITO (semiconductors) SOS (semiconductors) semiconductors (materials) . metal oxide semiconductors CMOS ITO (semiconductors) SOS (semiconductors) RT capacitance-voltage characteristics ion implantation	sputtering  metal plates  UF plate (metal)  GS structural members . plates (structural members) . metal plates boiler plate  RT armor bars billets
beryllium hydrides cesium hydrides lithium hydrides lithium aluminum hydrides potassium hydrides sodium hydrides RT ∞ metal compounds  metal insulator semiconductors USE MIS (semiconductors)  metal ions	ITO (semiconductors) SOS (semiconductors) semiconductors (materials) . metal oxide semiconductors CMOS ITO (semiconductors) SOS (semiconductors)  RT capacitance-voltage characteristics ion implantation rectifiers SOI (semiconductors)	sputtering  metal plates  UF plate (metal)  GS structural members . plates (structural members) . metal plates boiler plate  RT armor bars billets flanges
beryllium hydrides cesium hydrides lithium hydrides lithium aluminum hydrides potassium hydrides sodium hydrides RT ∞ metal compounds  metal insulator semiconductors USE MIS (semiconductors)	ITO (semiconductors) SOS (semiconductors) semiconductors (materials) . metal oxide semiconductors CMOS ITO (semiconductors) SOS (semiconductors) RT capacitance-voltage characteristics ion implantation rectifiers SOI (semiconductors) metal oxides	sputtering  metal plates  UF plate (metal)  GS structural members . plates (structural members) . metal plates boiler plate  RT armor bars billets
beryllium hydrides cesium hydrides lithium hydrides lithium aluminum hydrides potassium hydrides sodium hydrides RT ∞ metal compounds  metal insulator semiconductors USE MIS (semiconductors)  metal ions	ITO (semiconductors) SOS (semiconductors) semiconductors (materials) . metal oxide semiconductors CMOS ITO (semiconductors) SOS (semiconductors) SOS (semiconductors) RT capacitance-voltage characteristics ion implantation rectifiers SOI (semiconductors)  metal oxides GS chalcogenides	sputtering  metal plates  UF plate (metal)  GS structural members . plates (structural members) . metal plates boiler plate  RT armor bars billets flanges
beryllium hydrides cesium hydrides lithium hydrides lithium aluminum hydrides potassium hydrides sodium hydrides RT ∞ metal compounds  metal insulator semiconductors USE MIS (semiconductors)  metal ions GS ions	ITO (semiconductors) SOS (semiconductors) semiconductors (materials) . metal oxide semiconductors CMOS ITO (semiconductors) SOS (semiconductors) RT capacitance-voltage characteristics ion implantation rectifiers SOI (semiconductors) metal oxides	sputtering  metal plates  UF plate (metal)  GS structural members . plates (structural members) . metal plates . boiler plate  RT armor bars billets flanges flat plates
beryllium hydrides cesium hydrides lithium hydrides lithium aluminum hydrides potassium hydrides sodium hydrides RT ∞ metal compounds  metal insulator semiconductors USE MIS (semiconductors)  metal ions GS ions metal ions ferric ions	ITO (semiconductors) SOS (semiconductors) semiconductors (materials) . metal oxide semiconductors CMOS ITO (semiconductors) SOS (semiconductors) SOS (semiconductors) RT capacitance-voltage characteristics ion implantation rectifiers SOI (semiconductors)  metal oxides GS chalcogenides	sputtering  metal plates  UF plate (metal)  GS structural members . plates (structural members) . metal plates boiler plate  RT armor bars billets flanges flat plates girder webs
beryllium hydrides cesium hydrides lithium hydrides lithium aluminum hydrides potassium hydrides sodium hydrides RT ∞ metal compounds  metal insulator semiconductors USE MIS (semiconductors)  metal ions GS ions metal ions ferric ions manganese ions	ITO (semiconductors) SOS (semiconductors) semiconductors (materials) . metal oxide semiconductors CMOS ITO (semiconductors) SOS (semiconductors) RT capacitance-voltage characteristics ion implantation rectifiers SOI (semiconductors)  metal oxides GS chalcogenides . oxides	sputtering  metal plates  UF plate (metal)  GS structural members . plates (structural members) . metal plates boiler plate  RT armor  bars billets flanges flat plates girder webs parallel plates ∞ plates
beryllium hydrides cesium hydrides lithium hydrides lithium aluminum hydrides potassium hydrides sodium hydrides sodium hydrides RT ∞ metal compounds  metal insulator semiconductors USE MIS (semiconductors)  metal ions GS ions metal ions ferric ions manganese ions RT barium ion clouds	ITO (semiconductors) SOS (semiconductors) semiconductors (materials) . metal oxide semiconductors CMOS ITO (semiconductors) SOS (semiconductors) RT capacitance-voltage characteristics ion implantation rectifiers SOI (semiconductors)  metal oxides GS chalcogenides oxides metal oxides	sputtering  metal plates  UF plate (metal)  GS structural members . plates (structural members) . metal plates . boiler plate  RT armor bars billets flanges flat plates girder webs parallel plates ∞ plates rectangular plates
beryllium hydrides cesium hydrides lithium hydrides lithium aluminum hydrides potassium hydrides sodium hydrides RT ∞ metal compounds  metal insulator semiconductors USE MIS (semiconductors)  metal ions GS ions metal ions ferric ions manganese ions barium ion clouds cations	ITO (semiconductors) SOS (semiconductors) semiconductors (materials) . metal oxide semiconductors CMOS ITO (semiconductors) SOS (semiconductors) RT capacitance-voltage characteristics ion implantation rectifiers SOI (semiconductors)  metal oxides GS chalcogenides oxides metal oxides alkaline earth oxides	sputtering  metal plates  UF plate (metal)  GS structural members . plates (structural members) . metal plates boiler plate  RT armor  bars billets flanges flat plates girder webs parallel plates ∞ plates
beryllium hydrides cesium hydrides lithium hydrides lithium aluminum hydrides potassium hydrides sodium hydrides sodium hydrides RT ∞ metal compounds  metal insulator semiconductors USE MIS (semiconductors)  metal ions GS ions metal ions ferric ions manganese ions BT barium ion clouds cations crystal field theory	ITO (semiconductors) SOS (semiconductors) semiconductors (materials) . metal oxide semiconductors CMOS ITO (semiconductors) SOS (semiconductors) RT capacitance-voltage characteristics ion implantation rectifiers SOI (semiconductors)  metal oxides GS chalcogenides . oxides metal oxides alkaline earth oxides barium oxides	metal plates  UF plate (metal)  GS structural members . plates (structural members) . metal plates . boiler plate  RT armor bars billets flanges flat plates girder webs parallel plates  ∞ plates rectangular plates slabs thick plates
beryllium hydrides cesium hydrides lithium hydrides lithium aluminum hydrides potassium hydrides sodium hydrides sodium hydrides RT ∞ metal compounds  metal insulator semiconductors USE MIS (semiconductors)  metal ions GS ions metal ions ferric ions manganese ions RT barium ion clouds cations crystal field theory ion implantation	ITO (semiconductors) SOS (semiconductors) semiconductors (materials) . metal oxide semiconductors . CMOS . ITO (semiconductors) . SOS (semiconductors) . SOS (semiconductors) RT capacitance-voltage characteristics ion implantation rectifiers SOI (semiconductors)  metal oxides GS chalcogenides . oxides . metal oxides . alkaline earth oxides barium oxides beryllium oxides	sputtering  metal plates  UF plate (metal)  GS structural members . plates (structural members) . metal plates boiler plate  RT armor bars billets flanges flat plates girder webs parallel plates  ≈ plates rectangular plates slabs
beryllium hydrides cesium hydrides lithium hydrides lithium hydrides lithium aluminum hydrides sodium hydrides sodium hydrides RT ∞ metal compounds  metal insulator semiconductors USE MIS (semiconductors)  metal ions GS ions metal ions ferric ions manganese ions RT barium ion clouds cations crystal field theory ion implantation ion plating	ITO (semiconductors) SOS (semiconductors) semiconductors (materials) . metal oxide semiconductors . CMOS . ITO (semiconductors) . SOS (semiconductors)  RT capacitance-voltage characteristics ion implantation rectifiers SOI (semiconductors)  metal oxides GS chalcogenides . oxides . metal oxides . alkaline earth oxides . barium oxides . beryllium oxides alexandrite calcium oxides	metal plates  UF plate (metal)  GS structural members . plates (structural members) . metal plates boiler plate  RT armor bars billets flanges flat plates girder webs parallel plates  ∞ plates rectangular plates slabs thick plates thin plates
beryllium hydrides cesium hydrides lithium hydrides lithium aluminum hydrides potassium hydrides sodium hydrides RT ∞ metal compounds  metal insulator semiconductors USE MIS (semiconductors)  metal ions GS ions metal ions ferric ions manganese ions barium ion clouds cations crystal field theory ion implantation ion platting metals	ITO (semiconductors) SOS (semiconductors) semiconductors (materials) . metal oxide semiconductors CMOS ITO (semiconductors) SOS (semiconductors) RT capacitance-voltage characteristics ion implantation rectifiers SOI (semiconductors)  metal oxides GS chalcogenides . oxides metal oxides alkaline earth oxides barium oxides beryllium oxides alexandrite calcium oxides akermanite	metal plates  UF plate (metal)  GS structural members . plates (structural members) . metal plates boiler plate  RT armor bars billets flanges flat plates girder webs parallel plates  ≈ plates rectangular plates slabs thick plates thin plates  metal polishing
beryllium hydrides cesium hydrides lithium hydrides lithium hydrides lithium aluminum hydrides sodium hydrides sodium hydrides RT ∞ metal compounds  metal insulator semiconductors USE MIS (semiconductors)  metal ions GS ions metal ions ferric ions manganese ions RT barium ion clouds cations crystal field theory ion implantation ion plating	ITO (semiconductors) SOS (semiconductors) semiconductors (materials) . metal oxide semiconductors . CMOS . ITO (semiconductors) . SOS (semiconductors) . SOS (semiconductors)  RT capacitance-voltage characteristics ion implantation rectifiers SOI (semiconductors)  metal oxides GS chalcogenides . oxides . metal oxides . alkaline earth oxides . barium oxides . beryllium oxides . leexandrite . calcium oxides . akermanite . magnesium oxides	metal plates  UF plate (metal)  GS structural members . plates (structural members) . metal plates boiler plate  RT armor bars billets flanges flat plates girder webs parallel plates  ∞ plates rectangular plates slabs thick plates thin plates  metal polishing UF polished metals
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beryllium hydrides cesium hydrides lithium hydrides lithium aluminum hydrides potassium hydrides sodium hydrides RT ∞ metal compounds  metal insulator semiconductors USE MIS (semiconductors)  metal ions GS ions metal ions ferric ions manganese ions barium ion clouds cations crystal field theory ion implantation ion platting metals positive ions  metal joints soldered joints selded joints selded joints spot welds RT butt joints explosive welding lap joints riveted joints scarf joints scarf joints seams (joints)  metal matrix composites GS composite materials metal matrix composites aluminum boron composites aluminum graphite composites aluminum graphite composites aluminum graphite composites Borsic (tradename)	ITO (semiconductors) SOS (semiconductors) semiconductors (materials) . metal oxide semiconductors CMOS ITO (semiconductors) SOS (semiconductors) SOS (semiconductors) SOS (semiconductors)  RT capacitance-voltage characteristics ion implantation rectifiers SOI (semiconductors)  metal oxides  GS chalcogenides oxides alkaline earth oxides barium oxides beryllium oxides alexandrite calcium oxides akermanite magnesium oxides akermanite periclase aluminum oxides alexandrite sapphire bismuth oxides cerium oxides cerium oxides cerium oxides cobalt oxides copper oxides copper oxides gallium oxides copper oxides gallium oxides iron oxides hafnium oxides hafnium oxides hematite ilmenite magnetite lanthanum oxides lead oxides lead oxides lead oxides lead oxides lead oxides lithium oxides	metal plates  UF plate (metal) GS structural members . plates (structural members) . metal plates boiler plate  RT armor bars billets flanges flat plates girder webs parallel plates  plates rectangular plates slabs thick plates thin plates  Metal polishing UF polished metals GS polishing . metal polishing . electropolishing RT cleaning surface finishing  metal powder UF powdered metals GS particles . metal particles . metal powder platinum black powdered aluminum sintered aluminum powder RT atomizing
beryllium hydrides cesium hydrides lithium hydrides lithium aluminum hydrides potassium hydrides sodium hydrides RT ∞ metal compounds  metal insulator semiconductors USE MIS (semiconductors)  metal ions GS ions metal ions ferric ions manganese ions Parium ion clouds cations crystal field theory ion implantation ion plating metals positive ions  metal joints GS joints (junctions) metal joints soldered joints soldered joints spot welds RT butt joints explosive welding lap joints riveted joints scarf joints s	ITO (semiconductors) SOS (semiconductors) semiconductors (materials) . metal oxide semiconductors CMOS ITO (semiconductors) SOS (semiconductors) SOS (semiconductors) SOS (semiconductors)  RT capacitance-voltage characteristics ion implantation rectifiers SOI (semiconductors)  metal oxides  GS chalcogenides oxides alkaline earth oxides barium oxides beryllium oxides alexandrite calcium oxides akermanite magnesium oxides akermanite periclase aluminum oxides alexandrite sapphire bismuth oxides cerium oxides cerium oxides cobalt oxides cobalt oxides copper oxides gallium oxides fron oxides fron oxides periclase aluminum oxides chromium oxides cerium oxides chromium oxides chromium oxides copper oxides gallium oxides hafnium oxides hematite ilmenite magnetite lanthanum oxides lead oxides lead oxides lithium oxides lead oxides lithium oxides manganese oxides	metal plates  UF plate (metal) GS structural members . plates (structural members) . metal plates boiler plate  RT armor bars billets flanges flat plates girder webs parallel plates  plates rectangular plates slabs thick plates thin plates  MET polishing UF polished metals GS polishing . metal polishing . metal polishing . electropolishing RT cleaning surface finishing  metal powder UF powdered metals GS particles . metal particles . metal powder platinum black powdered aluminum sintered aluminum powder platinum black powdered aluminum sintered aluminum sintered aluminum powder atomizing bearing alloys
beryllium hydrides cesium hydrides lithium hydrides lithium aluminum hydrides potassium hydrides sodium hydrides RT ∞ metal compounds  metal insulator semiconductors USE MIS (semiconductors)  metal ions GS ions metal ions ferric ions manganese ions barium ion clouds cations crystal field theory ion implantation ion platting metals positive ions  metal joints soldered joints selded joints selded joints spot welds RT butt joints explosive welding lap joints riveted joints scarf joints scarf joints seams (joints)  metal matrix composites GS composite materials metal matrix composites aluminum boron composites aluminum graphite composites aluminum graphite composites aluminum graphite composites Borsic (tradename)	ITO (semiconductors) SOS (semiconductors) semiconductors (materials) . metal oxide semiconductors CMOS ITO (semiconductors) SOS (semiconductors) SOS (semiconductors) SOS (semiconductors)  RT capacitance-voltage characteristics ion implantation rectifiers SOI (semiconductors)  metal oxides  GS chalcogenides oxides alkaline earth oxides barium oxides beryllium oxides alexandrite calcium oxides akermanite magnesium oxides akermanite periclase aluminum oxides alexandrite sapphire bismuth oxides cerium oxides cerium oxides cerium oxides cobalt oxides copper oxides copper oxides gallium oxides copper oxides gallium oxides iron oxides hafnium oxides hafnium oxides hematite ilmenite magnetite lanthanum oxides lead oxides lead oxides lead oxides lead oxides lead oxides lithium oxides	metal plates  UF plate (metal) GS structural members . plates (structural members) . metal plates boiler plate  RT armor bars billets flanges flat plates girder webs parallel plates  plates rectangular plates slabs thick plates thin plates  Metal polishing UF polished metals GS polishing . metal polishing . electropolishing RT cleaning surface finishing  metal powder UF powdered metals GS particles . metal particles . metal powder platinum black powdered aluminum sintered aluminum powder RT atomizing

	compressing		oxide films		shearing
	electrodeposition		solid surfaces		shot peening
	flakes		surface finishing		squeeze casting
					•
	liquid phase sintering		surface properties		stamping
	metals		surface reactions		stretch forming
	mixing		∞ surfaces		stretching
	porous materials				superplastic forming
	powder metallurgy	metal v	apor lasers		swaging
	reduction (chemistry)	DEF	Stimulated emission devices, the ac-		tempering
					1 0
	sintering		terials of which are vaporized metals.		winding
	size separation	GS	stimulated emission devices		work hardening
			. lasers		
metal p	ropellants		metal vapor lasers	metal-ba	arrier-metal junctions
GS.	propellants	RT	laser materials	USE	MBM junctions
0.0	. rocket propellants		laser microscopy	002	
				motal-a	as systems
	solid rocket propellants		optical pumping		
	metal propellants			RI	gas lubricants
	. solid propellants	metal v	/apors		gases
	solid rocket propellants	GS	metals		gas-metal interactions
	metal propellants		. metal vapors		metals
RT	aluminum compounds		mercury vapor	~	systems
111					
	beryllium compounds		sodium vapor		vapor phases
	boron compounds		vapors		
	gelled propellants		. metal vapors	metal-in	sulator-metal diodes
	gelled rocket propellants		mercury vapor	USE	MIM diodes
	hybrid propellants		sodium vapor		
	monopropellants	RT	alkali metals	metal-in	sulator-metal semiconductors
		111			
	slurry propellants		alkali vapor lamps	USL	MIM (semiconductors)
			gas-metal interactions		
metal s	heets		heat transfer		glasses
UF	sheet metal		liquid metals	DEF	Amorphous alloys (glassy metals) pro-
RT	plates (structural members)		vapor deposition		y extremely rapid quenching of molten
			vapor deposition		n-metal alloys (e.g., iron, nickel, and/or
00	sheets		1:1		
			vhisker reinforcement		These metallic glasses exhibit unique
metal s	hells	USE	whisker composites		ical, magnetic, and electrical properties,
GS	shells (structural forms)			superco	nductive behavior, and anticorrosion re-
	. metal shells	metal v	vorking	sistance	, depending on the alloys, their forma-
RT	circular shells	SN	(METAL DEFORMATION FOR CHANGING		quenching techniques.
111		OIV	SHAPE AND FOR	GS	glass
	cylindrical shells		PROPERTIESEXCLUDES CASTING,	do	
	hemispherical shells		CUTTING, DEPOSITION PROCESS AND		metallic glasses
	hulls (structures)		MACHINING)	RT	glass coatings
	membrane structures	UF	metal forming		glass fibers
	orthotropic shells	GS	metal working		optical properties
			. ausforming		silicon dioxide
	reinforced shells		. bulging		
	skin (structural member)				spin glass
	spherical shells		. cladding		vitreous materials
	thin walled shells		. coining		
	toroidal shells		. explosive forming	metallic	hydrogen
	toroidar oriono		. forging	GS	
	-11		. hydroforming	ao	. hydrogen
metal s					
UF	spin forging		magnetic forming		hydrogen isotopes
	spinning (metallurgy)		. metal drawing		metallic hydrogen
GS	forming techniques		. metal spinning		. nuclides
	metal spinning		. hydrospinning		isotopes
	hydrospinning		. sizing (shaping)		hydrogen isotopes
		RT			metallic hydrogen
	metal working		brakes (forming or bending)		
	. metal spinning	•	∞ breakdown		gases
	hydrospinning		casting		. hydrogen
	spin		cold pressing		hydrogen isotopes
	metal spinning		cold rolling		metallic hydrogen
	hydrospinning		cold working	RT	critical temperature
БТ			decarburization	111	•
RT	cold working				solid phases
	extruding		deep drawing		solid state
	hot working		dimpling		solidified gases
	_		electrohydraulic forming		solids
metal s	praving		electromagnetic hammers		
GS	spraying		explosive welding	metallio	plasmas
ao	. , ,		extruding	GS	particles
	metal spraying			do	•
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	5.7	uranium plasmas
~	∘ strip		micromachining	RT	electron plasma
	strip transmission lines		peening		mercury arcs
			perforating		plasma sheaths
metal s	urfaces		piercing		L
RT	adatoms			metallio	etare
nı			plasma arc cutting		
	crack initiation		pressing (forming)	GS	celestial bodies
	crystal surfaces		pyrometallurgy		. stars
	erosion		∞ reduction		metallic stars
	gas-solid interfaces		roll forming	RT	abundance
				пі	
	liquid-solid interfaces	•	∞ rolling		chemical composition

	metallicity		norous silicon	GS	comiconductors (materials)
	stellar atmospheres		porous silicon silicon isotopes	us	semiconductors (materials) . metal-nitride-oxide-silicon
	· · · · · · · · · · · · · · · · · · ·		tellurium		. metal-mitride-oxide-silicon
	stellar structure			metalo	ganic chemical vapor deposition
metallic	sitv.	DT	tellurium isotopes		ed May 1991)
DEF	The abundance index of a metal or	RT	alloys	UF	metal organic chemical vapor
	or a celestial body.		arsenic alloys	Oi	deposition
RT	abundance		boron alloys		MOCVD (vapor deposition)
111	chemical analysis		intermetallics		OMCVD (vapor deposition)
	chemical composition		metals		
	•		organometallic compounds	GS	organometallic vapor deposition
	galactic clusters		semiconductors (materials)	us	deposition
	galaxies	4 - 11			. vapor deposition
	globular clusters		ganic compounds		metalorganic chemical vapor
	hydrogen	USE	organometallic compounds	РΤ	deposition
	interstellar matter	motallac	siloxane polymers	RT	coating
	mass ratios		organometallic polymers		crystal growth
	metallic stars	USL	organometanic polymers		organometallic compounds
	metals	metallos	ane polymers		space processing
	spectroscopic analysis		organometallic polymers	matal a	vida matal asmissandustara
	star clusters	OOL	organometanic polymers		xide-metal semiconductors
	stars	metallu	rav	USE	MOM (semiconductors)
		SN	(USE OF A MORE SPECIFIC TERM IS	motolo	
metalliz	<u> </u>	OIV	RECOMMENDEDCONSULT THE TERMS	metals	magnatia matala
GS	coating		LISTED BELOW)	UF	magnetic metals
	. metallizing	RT	alloying	GS	metals
	coatings		alloys		. actinide series
	. metallizing		beneficiation		actinium
RT	cladding		casting		radium
	electroplating		coating		radium isotopes
	finishes		coatings		radium 226
	flame spraying		corrosion		thorium
	laminates		crystallography		thorium isotopes
	metal coatings		dispersion strengthening		transuranium elements
	metal films		duplex operation		americium
	metal spraying		ferrous metals		americium isotopes
	plating		foundries		americium 241
	spraying		fractography		berkelium
	substrates		furnaces		californium
	vapor deposition				californium isotopes
	vapor acposition		hardening (materials)		curium
motallo	aranhy		heat affected zone		curium isotopes
metallo			heat treatment		curium 242
RT	abrasion		hydrometallurgy		
	alloys		levitation melting		curium 244
	anisotropy		light alloys		einsteinium
	crystal lattices		mechanical properties		fermium
	crystallography		melt spinning		lawrencium
	electropolishing		melting		mendelevium
	etching		metal coatings		neptunium
	ferrography		metal foams		neptunium isotopes
	inclusions		metal working		nobelium
	isotropy		metallography		plutonium
0	materials tests		metals		plutonium isotopes
	metal crystals		nonferrous metals		plutonium 238
0	metallurgy	00	physical sciences		plutonium 239
	metals		powder metallurgy		plutonium 240
	microporosity				plutonium 241
	microscopes		pyrometallurgy		plutonium 244
	microstructure		rapid quenching (metallurgy)		sergenium
	mushy zones		recrystallization		uranium
	order-disorder transformations	~	science		uranium isotopes
			smelting		uranium isotopes
	photomicrography		thermomechanical treatment		
	polishing		and the service of th		uranium 233
	radiography		netal bonding		uranium 234
	replicas	GS	bonding		uranium 235
	solid suspensions		. metal bonding		uranium 238
	time temperature parameter		metal-metal bonding		. alkali metals
	vibratory polishing	RT	adhesive bonding		cesium
	Widmanstatten structure		adhesives		cesium isotopes
	x ray diffraction		diffusion welding		cesium 133
			explosive welding		cesium 134
metallo	ids		heat affected zone		cesium 137
UF	semimetals		inertia bonding		cesium 144
GS	chemical elements		resin bonding		cesium vapor
	. metalloids		soldering		francium
	antimony		welding		lithium
	antimony isotopes				liquid lithium
	arsenic	metal-n	itride-oxide-semiconductors		lithium isotopes
	arsenic isotopes	DEF			potassium
	boron		de and silicon oxide dielectrics.		liquid potassium
	boron isotopes				potassium isotopes
		GS	electronic equipment		
	boron 10		. solid state devices		potassium 38
	germanium			_	potassium 39
	germanium isotopes		metal-nitride-oxide-semiconductor	S	potassium 40
	polonium		semiconductors (materials)		rubidium
	polonium isotopes				rubidium isotopes
	polonium 208		metal-nitride-oxide-semiconductor	s	rubidium 86
	polonium 209	RT	chips (memory devices)		sodium
	polonium 210		• •		liquid sodium
	silicon	metal-n	itride-oxide-silicon		sodium isotopes
	amorphous silicon	UF	MNOS		sodium 22

# metamorphism (geology)

. . . . sodium 24 . refractory metals . . . zinc isotopes . . zirconium . . . sodium vapor . . chromium . alkaline earth metals . . . zirconium isotopes . . . chromium isotopes . . zirconium 95 . . barium isotopes . . iridium . heavy metals ... iridium isotopes . ultrapure metals . . aluminum isotopes . . molybdenum . uranium plasmas . . . aluminum 26 . . niobium alloys . . . aluminum 27 . . . niobium isotopes antimony . antimony isotopes . . . . niobium 95 arsenic arsenic isotopes . astatine isotopes ... osmium isotopes bimetals . barium . . rhenium Borsic (tradename) . barium isotopes ... rhenium isotopes cermets . beryllium . . tantalum chemical elements . . beryllium isotopes . . . tantalum isotopes composite materials . . tungsten beryllium 7 conductors . tungsten isotopes . . . beryllium 9 embedded atom method . beryllium 10 . strontium eutectic composites . bismuth . . strontium isotopes gadolinium alloys . . . strontium 85 . . bismuth isotopes intermetallics . calcium . . . strontium 87 isotopes calcium isotopes strontium 89 light alloys . ferrous metals . . . strontium 90 liquid alloys . gallium . thallium metal clusters . gallium isotopes . thallium isotopes metal coatings indium . tin metal combustion . indium isotopes . . tin isotopes ∞ metal compounds . lead (metal) . transition metals metal crystals lead isotopes . cadmium metal films . liquid metals cadmium isotopes metal foils liquid lithium . . chromium metal fuels liquid potassium . chromium isotopes metal ions liquid sodium . . cobalt metal powder . . mercury (metal) . . . cobalt isotopes metal-gas systems . mercury isotopes . cobalt 58 metallicity . . mercury vapor . . . . cobalt 60 metallography . magnesium . . copper metalloids . . magnesium isotopes ... copper isotopes metallurgy . metal vapors . . gold monotectic alloys . . mercury vapor . . . gold isotopes palladium compounds . sodium vapor . gold 198 polonium . . hafnium noble metals polonium 208 . . gold . . . hafnium isotopes polonium 209 ... gold isotopes . . iridium polonium 210 gold 198 iridium isotopes polonium isotopes . . ruthenium . . iron strategic materials . . . ruthenium isotopes ... iron isotopes syntectic alloys . . . . iron 57 . . silver . . silver isotopes . . . . iron 58 metal-semiconductor-metal semiconductors . nonferrous metals . . . . iron 59 USE MSM (semiconductors) . protactinium . . manganese . . protactinium isotopes ... manganese isotopes . . mercury (metal) . rare earth elements metal-water reactions . . cerium chemical reactions mercury vapor . cerium isotopes . metal-water reactions . . . . cerium 137 . . molybdenum corrosion . cerium 144 . . nickel electrochemical corrosion . . dysprosium . . . nickel isotopes erosion . dysprosium isotopes . . niobium pitting . . erbium . . . niobium isotopes rusting . erbium isotopes . niobium 95 surface reactions europium . . osmium . europium isotopes . osmium isotopes metamorphic rocks gadolinium palladium Rocks derived from pre-existing rocks . gadolinium isotopes . . platinum by mineralogical, chemical and/or structural changes, essentially in the solid state. These holmium platinum isotopes . holmium isotopes rhenium changes are in response to marked changes in lanthanum . rhenium isotopes temperature, pressure, shearing stress, and . . . lanthanum isotopes . . rhodium chemical environment, generally at the depth of lutetium . rhodium isotopes the Earth's crust. Metamorphic rocks constitute . . . lutetium isotopes . . ruthenium one of the three main classes into which rocks . . . ruthenium isotopes neodymium are divided, the others being igneous rocks and . . neodymium isotopes . . scandium sedimentary rocks. . scandium isotopes praseodymium GS rocks ... praseodymium isotopes . . silver . metamorphic rocks . . promethium . silver isotopes . quartzite . . . promethium isotopes . . tantalum RT metamorphism (geology) . . samarium . tantalum isotopes . . . samarium isotopes technetium . . technetium isotopes . . scandium metamorphism (geology) ... scandium isotopes . . titanium DEF The mineralogical and structural adjustment of solid rocks to physical and chemical . . terbium . titanium isotopes . terbium isotopes conditions which have been imposed at depth tungsten below the surface zones of weathering and cementation, which differ from the conditions . . tungsten isotopes . . thulium ... thulium isotopes . . vanadium under which the rocks in question originated. . . ytterbium . vanadium isotopes . . yttrium . ytterbium isotopes contacts (geology) . . yttrium . . . yttrium isotopes metamorphic rocks

. . zinc

. . . yttrium isotopes

phase transformations

rocks	meteor craters	Tonk meteorite
metastability	meteoroid craters GS craters	Harleton meteorite Hvittis chondrite
USE metastable state	. meteorite craters	Okhansk meteorite
and the state of t	RT Canadian Shield	Pantar chondrites
metastable atoms GS atoms	cratering	Pribram meteorite
. metastable atoms	ejecta	tektites
RT Penning effect	lunar craters lunar rays	australites bediasites
	maria	Tungusk meteorite
metastable state	Mars craters	stony-iron meteorites
UF <i>metastability</i> RT excitation	Mars surface	RT bolides
radiation trapping	meteorites	chondrule 
stability	meteoritic damage planetary craters	coesite foreign bodies
steady state	projectile cratering	impact melts
unsteady state	Ptolemaeus Crater	meteorite craters
metastasis	shatter cones	meteorite parent bodies
(added February 2002)	Tungusk meteorite	meteoritic composition
DEF The transfer of a neoplasm from one	Tycho crater	meteoritic microstructures meteoroid showers
organ or part of the body to another remote from	meteorite impacts	meteoroids
the primary site.	(added July 2002)	micrometeoroids
RT cancer lymphatic system	USE meteorite collisions	moldavite
neoplasms		near Earth objects
no opiacine	meteorite parent bodies	matacritic commodition
metathesis	(added August 2001)	meteoritic composition GS composition (property)
GS chemical reactions	DEF Any celestial body that is the original	. meteoritic composition
. <b>metathesis</b> RT electrolysis	source of meteoritic material.  UF meteoroid parent bodies	RT carbonaceous meteorites
ion exchanging	GS celestial bodies	cosmochemistry
ion oxonanging	. meteorite parent bodies	iron meteorites
metazoa	RT asteroid belts	isotope ratios kamacite
USE animals	asteroids	meteorite parent bodies
Meteor 1 rocket vehicle	comets meteorites	meteorites
GS rocket vehicles	meteoritic composition	schreibersite
. Meteor 1 rocket vehicle	meteoritic microstructures	siderophile elements
RT liquid propellant rocket engines	∞ origins	solar nebula
ramjet engines	petrogenesis	stony meteorites tektites
solid propellant rocket engines		troilite
meteor bursts	meteorites SN (LIMITED TO METEOROIDS WHICH HAVE	veins (petrology)
USE meteoroid showers	REACHED THE SURFACE OF AN	
	ASTEROID, NATURAL SATELLITE OR PLANET)	meteoritic damage
meteor craters USE meteorite craters	DEF Meteoroids which have reached the	GS damage . impact damage
OSL Melecine Craters	surface of the Earth without being completely	. meteoritic damage
meteor hazards	vaporized. Used for meteorite compression	RT ∞ bombardment
USE meteoroid hazards	tests. UF meteorite compression tests	cratering
mataar traila	UF meteorite compression tests GS celestial bodies	ejecta
meteor trails  DEF Anything, such as light or ionization,	. meteorites	hypervelocity impact Mars craters
left along the trajectory of the meteor after the	iron meteorites	meteorite collisions
head of the meteor has passed. Used for mete-	Aroos meteorite	meteorite craters
oritic ionization.	Lazarev meteorite	meteoroid hazards
UF meteoritic ionization	Odessa meteorite Sikhote-Alin meteorite	meteoroid protection
RT bolides Earth atmosphere	micrometeorites	projectile cratering
meteoroid showers	stony meteorites	meteoritic diamonds
meteoroids	achondrites	GS diamonds
micrometeoroids	Bondoc meteorite	. meteoritic diamonds
∞ paths	chassignites Kapoeta achondrite	RT ureilites
Pribram meteorite radio meteors	nakhlites	meteoritic dust
scatter propagation	Norton County achondrite	USE micrometeoroids
sporadic meteoroids	shergottites	
∞ tracks	SNC meteorites	meteoritic ionization
upper atmosphere	ureilites	USE atmospheric ionization
matacrita callisiana	carbonaceous meteorites carbonaceous chondrites	meteor trails
meteorite collisions UF meteorite impacts	Alais meteorite	meteoritic microstructures
GS collisions	Allende meteorite	GS microstructure
. meteorite collisions	Cold Bokkeveld meteorite	. meteoritic microstructure
RT asteroid collisions	Ivuna meteorite	RT chondrule
cometary collisions	Murchison meteorite Murray meteorite	iron meteorites meteorite parent bodies
hypervelocity impact 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	meteoroid concentration
meteorite compression tests	carbonaceous chondrites 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)
mataarita aratara	Murchison meteorite	. meteoroid concentration
meteorite craters UF fossil meteorite craters	Murray meteorite Orgueil meteorite	RT flux density mass distribution
or rossii meteorite oraters	Orgaen meteorite	เหตุออ นเอเเเมน์แปป

meteorological radar spatial distribution space, of a size considerably smaller than asweather forecasting sporadic meteoroids teroids and considerably larger than atoms or molecules. Used for meteors. meteorological instruments meteoroid craters meteors GS measuring instruments . meteorological instruments USE meteorite craters GS celestial bodies . meteoroids . . barometers meteoroid dust clouds . . cloud height indicators . . Aquarid meteoroids GS celestial bodies . . Arietid meteoroids . . dropsondes . meteoroids . . bolides . . radiometeorographs . . micrometeoroids . Cyrillid meteoroids . . radiosondes ... meteoroid dust clouds . . Draconid meteoroids . . . ionosondes . . . . zodiacal dust Geminid meteoroids . . . rawinsondes extraterrestrial matter . . Leonid meteoroids . . ozonesondes . interstellar matter . . rain gages . . micrometeoroids . . cosmic dust . . . meteoroid dust clouds .. weather data recorders . . . interplanetary dust . . wind vanes . . zodiacal dust meteoroid dust clouds . . Orionid meteoroids anemometers . . zodiacal dust . . Perseid meteoroids balloon-borne instruments media hot-film anemometers . . Quadrantid meteoroids . interplanetary medium . . radio meteors hot-wire anemometers . . sporadic meteoroids . . interplanetary dust humidity measurement ... meteoroid dust clouds hygrometers . . Taurid meteoroids asteroid belts . . . . zodiacal dust hypsometers particles ∞ instruments asteroids . dust light scattering meters bumpers . . cosmic dust meteorology Chiron . . . interplanetary dust nephanalysis comets meteoroid dust clouds precipitation measurement cosmic dust . . . . . zodiacal dust psychrometers Gaspra asteroid  $RT \, \infty \, clouds$ recording instruments rocket-borne instruments hypervelocity projectiles Explorer satellites Ida asteroid terrestrial dust belt SIRS B satellite interplanetary dust sodar interplanetary medium meteoroid hazards sound detecting and ranging meteor trails meteor hazards sounding rockets meteorites GS hazards meteoroid hazards transducers . flight hazards weather reconnaissance aircraft meteoroid showers . meteoroid hazards micrometeorites weather stations meteorite collisions natural satellites meteoritic damage meteorological parameters particle tracks meteoroids GS constraints Radiation Meteoroid spacecraft operational hazards . meteorological parameters solar system projectile cratering . . Brunt-Vaisala frequency space debris aerology spacecraft breakup Tempel 2 comet agroclimatology Toro asteroid meteoroid parent bodies annual variations Toutatis asteroid (added August 2001) Atmospheric & Oceanographic Inform Vesta asteroid USE meteorite parent bodies Sys Atmospheric Cloud Physics Lab meteoroid protection meteorological balloons (Spacelab) GS protection atmospheric pressure atmospheric temperature expandable structures meteoroid protection . inflatable structures RT bumpers . . balloons atmospheric turbulence impact damage ... meteorological balloons aviation meteorology meteoritic damage . . . . jimsphere balloons ceilings (meteorology) spacecraft shielding ... ROBIN balloons cloud cover spacecraft structures dropsondes cockpit weather information systems high altitude balloons cold fronts meteoroid showers equatorial atmosphere radiosondes DEF Groups of meteoroids with approxifronts (meteorology) rawinsondes mately parallel trajectories. Used for meteor hindcasting rockoons bursts humidity skyhook balloons UF meteor bursts sounding superpressure balloons isotherms GS celestial bodies moisture . meteoroid showers ocean data acquisitions systems tethered balloons . . Aquarid meteoroids upper atmosphere oceanographic parameters . . Arietid meteoroids precipitation (meteorology) weather forecasting . . Cyrillid meteoroids storms (meteorology) . . Draconid meteoroids teleconnections (meteorology) Geminid meteoroids meteorological charts temperature inversions . . Leonid meteoroids tropical meteorology weather charts UF Orionid meteoroids warm fronts weather maps . . Perseid meteoroids GS charts weather . . Quadrantid meteoroids . meteorological charts wind direction . Taurid meteoroids wind measurement maps astronomy meteorological charts wind velocity bolides RT isobars (pressure) comets meteorological probes radar maps meteor trails USE sondes synoptic meteorology meteorites meteoroids meteorological radar ∞ showers meteorological flight weather radar

### meteoroids

(LIMITED TO SOLID OBJECTS IN SPACE, MUCH SMALLER THAN AN ASTEROID AND MUCH LARGER THAN A MOLECULE) SN Solid objects moving in interplanetary DFF

Meteoroid Technology Satellite

USE Explorer 46 satellite

aerial reconnaissance balloon flight

∞ flight ice reporting rocket flight SIRS B satellite sounding

space flight

. meteorological radar precipitation measurement precipitation particle measurement

GS

radar

pulse radar radar scanning radar tracking radio meteorology

# meteorological research aircraft

	surveillance radar		Synchronous Meteorological		. nuclear meteorology
	weather forecasting		Satellite		. planetary meteorology
			SMS 1		. polar meteorology
	ological research aircraft		SMS 2 TIROS satellites		radio meteorology
GS	research vehicles		ITOS satellites		. synoptic meteorology
	. research aircraft		ITOS satellites		tropical meteorology
DT .	meteorological research aircraft ∘ aircraft		ITOS 2		. weather forecasting
nı °			ITOS 3		long range weather forecasting
	data acquisition		ITOS 4		nowcasting
motoore	plagical realists		TIROS 1 satellite		numerical weather forecasting
	ological rockets		TIROS 2 satellite		statistical weather forecasting
USE	sounding rockets		TIROS 3 satellite	RT	acid rain
			TIROS 4 satellite		acoustic sounding
	ological satellites		TIROS 5 satellite		aeronomy
GS	artificial satellites		TIROS 6 satellite		agroclimatology
	. meteorological satellites AEROS satellite		TIROS 7 satellite		air land interactions
	Cosmos 144 satellite		TIROS 8 satellite		air masses annual variations
	D-2 satellites		TIROS 9 satellite		anticyclones
	DMSP satellites		TIROS 10 satellite		anvil clouds
	. Elektron satellites		TIROS M		arc clouds
	Elektron 1 satellite		TIROS N series satellites		∞ atmospheres
	Elektron 2 satellite		NOAA 6 satellite		Atmospheric & Oceanographic Inform
	Elektron 4 satellite		TRMM satellite		Sys
	EOLE satellites	RT	Vanguard 2 satellite AgRISTARS project		atmospheric density
	ESSA satellites	וח	ATS		atmospheric physics
	ESSA 1 satellite		CALIPSO (Pathfinder satellite)		atmospheric turbulence
	ESSA 2 satellite		cloud photography		baroclinic instability
	ESSA 3 satellite		CloudSat		brightness temperature
	ESSA 4 satellite		geophysical satellites		CALIPSO (Pathfinder satellite)
	ESSA 5 satellite		GOES 1		cap clouds
	ESSA 6 satellite		GOES 2		ceilings (meteorology)
	ESSA 7 satellite		GOES 3		cirrocumulus clouds
	ESSA 8 satellite		GOES 4		cirrostratus clouds
	ESSA 9 satellite		GOES 5		cirrus shields
	Explorer 9 satellite		infrared photography		climate
	Explorer 17 satellite		Japanese space program		climatology
	Explorer 19 satellite		meteorology		cloud cover
	GEOLE satellites		military spacecraft		clouds (meteorology)
	GOES satellites		navigation satellites		CloudSat
	GOES 1 GOES 2		Nimbus project		cold fronts condensation nuclei
	GOES 3		NOESS		convection
	GOES 4		precipitation measurement		convection clouds
	GOES 5		satellite observation		Coriolis effect
	GOES 6		satellite sounding		cyclones
	GOES 7		satellite television		DMSP satellites
	GOES 8		sounding rockets		Earth cryosphere
	GOES 9		space probes		Earth sciences
	GOES 10		TIROS project		environmental engineering
	GOES 13		unmanned spacecraft		environmental monitoring
	METEOSAT satellite		Vanguard satellites weather forecasting		fronts (meteorology)
	Nimbus satellites		weather stations		GARP Atlantic Tropical Experiment
	Nimbus 1 satellite		weather stations		geology
	Nimbus 2 satellite	meteoi	ological services		geophysics
	Nimbus 3 satellite		World Weather Watch		Global Atmospheric Research
	Nimbus 4 satellite		WWW (meteorology)		Program
	Nimbus 5 satellite	GS	services		hailstorms
	Nimbus 6 satellite		. meteorological services		humidity
	Nimbus 7 satellite	RT	automatic weather stations		hurricanes
	NOAA satellites		aviation meteorology		hydroclimatology
	NOAA 2 satellite		flight conditions		hydrodynamic equations
	NOAA 3 satellite NOAA 4 satellite		weather forecasting		hydrography
	NOAA 4 satellite		weather stations		hydrology insolation
	NOAA 6 satellite		alasiaal aalassida		isotherms
	NOAA o satellite		ological solenoids		mesoscale phenomena
	NOAA 8 satellite	RT	baroclinity vortices		meteorological instruments
	NOAA 9 satellite		vortices		meteorological instruments
	NOAA 10 satellite	motoor	ological stations		METEOSAT satellite
	NOAA 11 satellite		weather stations		method of characteristics
	NOAA 12 satellite	002	weather stations		moisture
	NOAA 14 satellite	meteoi	ology		National Severe Storms Project
	San Marco satellites		The study dealing with the phenomena		nephanalysis
	San Marco 1 satellite		atmosphere especially as they relate to		NOESS
	San Marco 2 satellite		r and climate. Used for atmospheric con-		oceanography
	San Marco 3 satellite	ditions.	·		∞ physical sciences
	SEOCS (satellite)	UF	atmospheric conditions		precipitation (meteorology)
	SIRS B satellite	GS	meteorology		∞ science
	Sputnik 1 satellite		. aerology		sea breeze
	Sputnik 2 satellite		. agrometeorology		seasons
	Sputnik 3 satellite		. Alpine meteorology		sodar
	SRET satellites		. aviation meteorology		sound detecting and ranging
	SRET 1 satellite		. biometeorology		storms (meteorology)
	SRET 2 satellite		. hydrometeorology		teleconnections (meteorology)
	Synchronous Earth Observatory		marine meteorology		temperature
	satellite		. mesometeorology		temperature inversions
	SMS 1		. micrometeorology		tropical regions
	SMS 2		microbursts (meteorology)		tropical storms

typhoons . . methionine Percus method warm fronts Pohlhausen method weather probe method (forecasting) method of characteristics wind (meteorology) UF characteristic method problem solving RT ∞ characteristics wind measurement profile method (forecasting) compressible fluids World Meteorological Organization Rayleigh-Ritz method zonal flow (meteorology) relaxation method (mathematics) flow distribution hyperbolic functions Ritz averaging method meteors meteorology ruler method USE meteoroids methodology partial differential equations Runge-Kutta method Schmidt method plastic properties Prandtl-Meyer expansion METEOSAT satellite Schwartz method GS artificial satellites simplex method steady flow unsteady flow . ESA satellites spectral methods . . METEOSAT satellite steepest descent method strain energy methods traveling solvent method . meteorological satellites . METEOSAT satellite method of moments ESA spacecraft Van Slyke method DEF A method of estimating the parameters . ESA satellites von Zeipel method of a distribution by relating the parameters to . METEOSAT satellite vortex in cell technique Wentzel-Kramer-Brillouin method cloud cover distribution moments cloud photography wing flow method tests integral equations European Space Agency mathematical models European space programs methods matrices (mathematics) French satellites USE methodology ∞ methodology French space program procedures moment distribution infrared photography moments ISCCP Project methoxy systems numerical analysis meteorology RT alcohols satellite observation ∞ chemical compounds ∞ methodology weather indoles (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN organic chemistry organic compounds meters UF methods USE measuring instruments pyrroles techniques ∞ systems methacrylate resins RT approximation USE acrylic resins asymptotic methods methyl alcohol Biot method UF methanol methamphetamine boundary integral method hydroxyl compounds GS Bridgman method drugs . alcohols . methamphetamine cluster variation method . methyl alcohol critical path method organic compounds Karl Fischer reagent RT Crocco method . amines . . amphetamines Czochralski method methyl chloride ... methamphetamine Debye-Scherrer method GS drugs Delphi method (forecasting) . anesthetics digital techniques methanation methyl chloride embedded atom method The conversion of various organic RT chlorides compounds to produce methane. emergency breathing techniques chemical reactions Encke method methyl chlorosilanes methanation energy methods GS hydrogen compounds biomass energy production equilibrium methods . hvdrides coal gasification ethics . . silanes hydrocarbon fuels finite element method . methyl chlorosilanes hydropyrolysis finite volume method methyl compounds Fuiita method . methyl chlorosilanes Galerkin method methane silicon compounds organic compounds **GFRT** GS . silanes . hydrocarbons Glimm method . . methyl chlorosilanes . aliphatic hydrocarbons Halphen method Hartree-Fock-Slater method . . . alkanes methyl compounds . . . methane heuristic methods GS methyl compounds bioconversion Hill method acetonitrile chlorofluoromethane imaging techniques methyl chlorosilanes coal derived gases in vitro methods and tests methyl nitrate in vivo methods and tests hydrocarbon fuels methyl polysiloxanes hydropyrolysis Jacobi matrix method  $RT \propto chemical \ compounds$ landfills Kjeldahl method dimethyl compounds liquefied natural gas Latin square method organic compounds natural gas Laue method trimethyl compounds natural gas exploration least squares method Neptune atmosphere Lighthill method methyl cyanide oil fields management methods USÉ acetonitrile petroleum products matrix management solvent refined coal matrix methods methyl nitrate synthane maximum entropy method GS alkyl compounds Uranus atmosphere Maxwell-Mohr method . methyl nitrate ∞ mechanism methyl compounds methanol method of characteristics . methyl nitrate method of moments USE methyl alcohol nitrogen compounds Milne method . nitrates Milne-Thomson method methenyl .. methyl nitrate USE methylidyne minimum entropy method methyl polysiloxanes Moire effects methionine Monte Carlo method GS methyl compounds multigrid methods methyl polysiloxanes acids GS Newton-Raphson method silicon polymers . amino acids panel method (fluid dynamics)

particle in cell technique

pattern method (forecasting)

. methionine

amino acids

organic compounds

. silicones

. . polysiloxanes ... methyl polysiloxanes

RT ∞ polymers bimetric theories . . fluorophlogopite silicon compounds metric system . muscovite USE International System of Units igneous rocks methylation vermiculite GS chemical reactions metrication methylation The conversion on an industry and/or micarta alkylation nationwide basis of English units of measure-GS composite materials ment into the International System of Units. . polymer matrix composites methylene including engineering and manufacturing stan-. . reinforced plastics organic compounds GS dards, tools and instruments, and all affected . micarta . hydrocarbons areas in the government and private sectors. plastics . methylene Used for metric conversion. . reinforced plastics RT dyes UF metric conversion . . micarta staining  $RT \, \infty \, conversion$ . synthetic resins International System of Units ... thermosetting resins methylene blue metrology . . . phenolic resins standardization dyes . . . micarta methylene blue units of measurement resins organic compounds . synthetic resins metrology . cyclic compounds . . thermosetting resins DFF The science of dimensional measure-. . . phenolic resins . . heterocyclic compounds ment; sometimes includes the science of weigh-. . . azines . . micarta . . . methylene blue fabrics International System of Units pyrazines fiber composites . azines ∞ measurement insulation measuring instruments . methylene blue ∞ polymers chemical analysis metrication chemical indicators standards mice ∞ indicators units of measurement animals staining . vertebrates Metropolitan aircraft . . mammals USE CV-440 aircraft ... rodents methylene diamine GS organic compounds . . . . mice metropolitan areas . . . . . jerboas . amines USE cities . . . . . knockout mice .. methylene diamine . . . . pocket mice Mexican space program RT animal models methylhydrazine (added March 1989) rats hydrazines GS programs methylhydrazine space programs micelles . monomethylhydrazines Mexican space program (added June 2001) RT dimethylhydrazines RT Mexico DEF Electrically charged colloidal particles or ions consisting of oriented molecules; aggre-Mexico methylidyne gates of a number of molecules held loosely GS nations (added June 1993) together by secondary bonds. Mexico CH (methylidyne) GS molecular clusters RT Colorado River (North America) methenyl . micelles Gulf of California (Mexico) GS organic compounds agglomeration Gulf of Mexico . hydrocarbons aggregates Imperial Valley (CA) ... methylidyne block copolymers Lower California (Mexico) radicals clusters Mexican space program . methylidyne colloids North America RT ∞ aromatic compounds flocculating Rio Grande (North America) carbon compounds nanostructure (characteristics) San Andreas Fault diatomic molecules self assembly Southern California interstellar gas interstellar matter Michael reaction MFM (microscopy) molecular clouds GS chemical reactions (added June 2004) . Michael reaction USE magnetic force microscopy (added January 1996) Michaelis theory MGCO DEF A natural satellite of Jupiter orbiting at RT ∞ theories USE Mars Observer a mean distance of 127,960 kilometers. Michell theorem GS celestial bodies MGS (spacecraft) . natural satellites (added March 1999) GS theorems . . Jupiter satellites USE Mars Global Surveyor Michell theorem stress analysis . . Metis MH-262 aircraft structural analysis RT Jupiter (planet) Max Holste MH-262 aircraft Nord 262 aircraft Michelson interferometers metric conversion GS measuring instruments jet aircraft USE metrication . interferometers . turboprop aircraft MH-262 aircraft . Michelson interferometers metric photography astrophysics light aircraft The recording of events by means of . MH-262 aircraft radio astronomy photography (either singly or sequentially), tomonoplanes spectrometers gether with appropriate metric coordinates to MH-262 aircraft form the basis for accurate measurements. Michigan Nord aircraft GS imagery MH-262 aircraft nations GS . photography . United States transport aircraft metric photography MH-262 aircraft . Michigan  $RT \, \infty \, aircraft$ Pontiac (MI) metric space cargo aircraft Saginaw Bay (MI) GS aeometry passenger aircraft . topology microanalysis metric space chemical tests mica GS . . . Hilbert space fluoromica . chemical analysis UF . . . Sobolev space GS minerals . microanalysis

mica

RT electron microscopes

RT Banach space

electron microscopy thin films GS electromechanical devices electrophotometry . microelectromechanical systems inductively coupled plasma mass microchannels . . microoptoelectromechanical spectrometry frequencies systems mass spectrometers image converters electroactive polymers ∞ materials tests light amplifiers microfluidic devices neutron activation analysis microchannel plates microinstrumentation qualitative analysis multi-anode microchannel arrays microminiaturization quantitative analysis night vision microminiaturized electronic devices optical equipment scanning electron microscopy photocathodes spectroscopic analysis nanosatellites ultraviolet radiation transmission electron microscopy nanotechnology x ray analysis piezoelectric actuators microcircuits piezoelectric motors microbalances USE microelectronics microscales microelectronics GS measuring instruments microclimatology microcircuits . indicating instruments GS climatology GS microelectronics . . weight indicators . microclimatology . large scale integration ... microbalances agroclimatology . medium scale integration biometeorology very large scale integration microballoons micrometeorology beam leads chips (electronics) Very small glass spheres (50 to 100 micrometers in diameter) used as targets in the microcomputers circuits laser fusion programs. Complete digital computers utilizing a ∞ electronics expandable structures microprocessor consisting of one or more inteencapsulated microcircuits . inflatable structures grated circuit chips as the central arithmetic and ion implantation . . balloons logic unit, and added chips to provide timing, laser microscopy microinstrumentation . . microballoons program memory, random access memory interglobules faces for input and output signals and other microminiaturization functions. Some microcomputers consist of a lasers microminiaturized electronic devices single integrated-circuit chip. spheres micromodules GS data processing equipment targets microoptoelectromechanical systems . computers molecular electronics microbe . . digital computers nanotechnology USE microorganisms microcomputers photolithography . . . personal computers photomasks microbeams . . . . IBM personal computers photoresists GS beams (radiation) . . . . Macintosh personal computers single event upsets . microbeams RT microprocessors systems-on-a-chip RT collimation minicomputers transistor circuits crystallography wafers x ray analysis microcracks GS fractures (materials) microfibers microbiology GS microbiology . cracks GS fibers . microcracks . microfibers bacteriology crack closure RT ∞ biology crack geometry crack initiation microfilms cell culturing GS photographic film culture media Elber equation microfilms culture techniques surface cracks data retrieval cultured cells data storage gnotobiotics microcrystals microphotographs organ culturing crystals GS readers tissue culturing . microcrystals reproduction (copying) crystallites microbursts (meteorology)
SN (EXCLUDES IONOSPHERIC RADIATION nanocrystals microfluidic devices (added October 2003)
DEF Various devices that incorporate one spherulites MICROBURSTS)

DEF A strong, localized downdraft that strikes the ground creating an outflow of severe winds near the ground that diverge radically Microcystis or more micro-scale fluid channels where mea-GS plants (botany) surements, analysis, reactions, and separations algae occur. Often applied in systems for chemical from the impact point. meteorology . . blue green algae analysis, biochemical sensing, and cytometry. GS . Microcystis . micrometeorology fluidic circuits thermophilic plants microbursts (meteorology) . . blue green algae microelectromechanical systems storms . storms (meteorology) . Microcystis microinstrumentation RT pollution . . downbursts micrography . . microbursts (meteorology) microdensitometers USE photomicrography aviation meteorology DEF Image analysis devices for resolving flight hazards gray-level differences within or between features microgravity thunderstorms and for integrating the optical density across DEF A condition in which the acceleration vertical air currents 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. wind shear GS measuring instruments . densitometers gravity, and subgravity. microcalorimeters . microdensitometers hypogravity USE calorimeters . optical measuring instruments low gravity microchannel plates microdensitometers reduced gravity DEF An array of microchannels formed into optical equipment subgravity plates and contained in a photomultiplier tube. . optical measuring instruments gravitation Used for multichannel plates microdensitometers microgravity multichannel plates gravimeters antigravity channel multipliers bioprocessing optical density dynamic range optical measurement clinorotation integrated circuits clinostats photometers

microelectromechanical systems

MEMS (electromechanical devices)

(added October 1998)

microchannels

∞ plates

microwave equipment photomultiplier tubes drop towers

fluid management

Earth orbital environments

high gravity environments

#### microgravity applications

low gravity manufacturing microelectronics meteoroids low weight micrometeoroids microminiaturization Marangoni convection space weathering microsatellites microgravity applications tektites miniature electronic equipment space processing nanosatellites zodiacal dust thermocapillary migration systems-on-a-chip weightlessness Micrometeoroid Explorer satellites GS artificial satellites micromodules ∞ microgravity applications . scientific satellites GS electronic equipment (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) . . Explorer satellites . electronic modules ... Micrometeoroid Explorer . . micromodules satellites microminiaturized electronic devices bioprocessing . micromodules commerce lab micrometeoroids modules crystal growth meteoritic dust . electronic modules electrophoresis micrometeors micromodules low gravity manufacturing celestial bodies RT beam leads microgravity . meteoroids ∞ containers space commercialization .. micrometeoroids electronic packaging space manufacturing . . . meteoroid dust clouds microelectronics space processing . . . . zodiacal dust microprocessors surface tension driven convection cosmic dust miniature electronic equipment tissue engineering Explorer satellites photolithography interplanetary dust microhardness meteor trails micromotors microindentation meteorites (EXCLUDES ROCKET ENGINES) GS mechanical properties micrometeorites electromechanical devices . hardness Poynting-Robertson effect . electric motors . . microhardness space debris . . micromotors . . Knoop hardness terrestrial dust belt motors nanoindentation . electric motors zodiacal light Rockwell hardness micromotors micrometeorology piezoelectric motors microindentation GS meteorology USE microhardness micrometeorology microoptoelectromechanical systems . microbursts (meteorology) (added December 2005) microinstrumentation agrometeorology DEF Integrated, hybrid micro-systems that measuring instruments include mechanical structures, microelectronics, mesometeorology microelectromechanical systems and optics, and allow the dynamic manipulation microclimatology microelectronics of light beams for applications such as optical microfluidic devices turbulence switches, tunable filters and lasers, displays, microminiaturization and specialized sensors. micrometeors MOEMS USE micrometeoroids micromachining (added September 1993)
DEF Performing various microscopic scale optical MEMS micrometers GS electromechanical devices Instruments for making precise linear . microelectromechanical systems cutting or grinding operations on a piece of work. . microoptoelectromechanical measurements in which the displacements meamachining sured correspond to the travel of a screw of systems . micromachining accurately known pitch. RT actuators RT cutting measuring instruments
. micrometers GS microelectronics drilling grinding (material removal) micromechanics RT dimensional measurement optoelectronic devices grooving distance measuring equipment ∞ sensors laser cutting systems-on-a-chip laser drilling micromilliammeters metal cutting measuring instruments microorganisms metal working ammeters microbe micromechanics . micromilliammeters GS microorganisms microstructure electric current . bacteria photoengraving electrical measurement . . actinomycetes photomasks . . archaebacteria photomechanical effect galvanometers surface finishing Azotobacter microminiaturization Bacillus V grooves stearothermophilus GS miniaturization . . Clostridium microminiaturization micromanometers USE manometers circuits Clostridium botulinum DTL integrated circuits Escherichia micromechanics

integrated circuits large scale integration linear integrated circuits

microelectromechanical systems

microelectronics microinstrumentation

microminiaturized electronic devices

microsatellites

miniature electronic equipment

molecular electronics nanosatellites

semiconductor devices

subminiaturization thick films thin films

TTL integrated circuits wafers

#### microminiaturized electronic devices microminiaturized electronic

devices

micromodules

RT microelectromechanical systems

. . hydrogenomonas Klebsiella . . nitrobacter pseudomonas . . salmonella . . serratia . . staphylococcus . . streptococcus . streptomycetes . protozoa . . amoeba . pelomyxa . . Flagellata ... Euglena . . trypanosome . paramecia . Rotifera . viruses . . adenoviruses bacteriophages . human immunodeficiency virus RT aerobes

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The study of the constraints, the grain

microoptoelectromechanical systems

Very small meteorites or meteoritic

particles with a diameter in general less than a

size, and their interrelationship in materials.

composite materials

crack propagation

fracture mechanics

mechanical properties

mechanics (physics) micromachining

microstructure

celestial bodies

. micrometeorites

hypervelocity projectiles

. meteorites

cosmic dust

micrometeorites

millimeter. GS

RT

reinforcing fibers

stress concentration

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

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

monaural signals transmitters

ultrasonic wave transducers

#### microphotographs

photographs GS

microphotographs

data storage microfilms photography photomasks

microphotometers USE photometers

#### microplasmas

GS particles

. charged particles

. . energetic particles

. . . plasmas (physics)

.. microplasmas

. corpuscular radiation

. . energetic particles

. . . plasmas (physics)

.... microplasmas

#### micropolar fluids

incompressible fluids

micropolar fluids

RT fluid mechanics

∞ fluids microstructure

### microporosity

porosity

microporosity

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

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)

Satellites with a total mass between 10 and 100 kg often incorporating miniaturized electronic and mechanical systems.

UF microsats

artificial satellites GS

. microsatellites

microelectromechanical systems

microminiaturization

microminiaturized electronic devices

nanosatellites satellite constellations

satellite design small satellite technology

small scientific satellites

#### microsats

(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 applications of microscopes.

### 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

cytometry

microscopes

microtomy phase contrast photomicrography slides (microscopy)

#### microseisms

DEF Seismic pulses of short duration and low amplitude, often ocurring previous to failure of a material or structures.

GS elastic waves

. seismic waves

. microseisms 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

fungi

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 transmission line.

GS antennas

. microstrip antennas

microstrip devices

microstrip antennas

antenna design microstrip transmission lines microwave antennas

patch antennas waveguide antennas

microstrip devices microstrip devices

. microstrip antennas microstrip transmission lines

circuits RT

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 RT directional couplers microstrip antennas microwave transmission

### microstructure

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

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crystallography . planotrons . . short wave radiation ferrites interstellar masers . . . microwaves grain size ... microwave emission hardening (materials) parametric amplifiers emission heat treatment . microwave emission transferred electron devices kink bands cosmic noise lamella (metallurgy) **Microwave Anisotropy Probe** diffraction radiation Laves phases (added November 2002) extraterrestrial radiation martensite Spacecraft and related mission to map extraterrestrial radio waves metallography the relative cosmic microwave background temlinear polarization perature over the full sky with a high angular resolution and sensitivity. Launched June 2001. micromachining microwave signatures micromechanics stellar radiation MAP (space probe) micropolar fluids unmanned spacecraft microwave equipment microporosity molecular dynamics . space probes GS microwave equipment order-disorder transformations . Microwave Anisotropy Probe . gyrators Ostwald ripening cosmic microwave background . . microwave filters pearlite radiation . microwave amplifiers photomicrography . . crossed field amplifiers relic radiation spaceborne astronomy . . cyclotron resonance devices precipitates quenching (cooling) . . planotrons shape memory alloys silicon alloys microwave antennas . microwave antennas GS antennas . . horn antennas . radio antennas . . lens antennas spherulites . . microwave antennas . . rectennas ∞ structures thermomechanical treatment . . . horn antennas . . spacetennas microwave interferometers
 microwave oscillators . . . lens antennas vanadium alloys . . . rectennas work softening . . . spacetennas . . magnetrons microwave equipment . . nigotrons microthrust . microwave antennas (NOT USED FOR GEOLOGICAL FAULTS, SEISMOLOGY, OR TECTONICS) . microwave probes . . horn antennas . . microwave plasma probes GS thrust . . lens antennas . microwave radiometers . low thrust . . rectennas . . Advanced Microwave Sounding . microthrust . spacetennas Unit RT jet thrust . microwave scanning beam landing radio equipment low thrust propulsion . radio antennas system microrocket engines . . microwave antennas . microwave tubes rocket thrust . . . horn antennas . . celescopes variable thrust . . . lens antennas . . cyclotron resonance devices ... rectennas . . klystrons microtomy . spacetennas . . magnetrons medical equipment RT aircraft antennas . . . nigotrons microscopy antenna arrays . . planotrons backfire antennas . . traveling wave tubes microtrons directional antennas . . . backward wave tubes GS particle accelerators Gregorian antennas . helitrons cyclotrons helical antennas . . . carcinotrons . microtrons microstrip antennas . thyratrons betatrons missile antennas gas discharge tubes synchrotrons multibeam antennas microchannel plates omnidirectional antennas microstrip devices microvision landing aid parabolic antennas display devices microwave filters parabolic reflectors . microvision landing aid electromagnetic wave filters patch antennas landing aids . electric filters radar antennas . microvision landing aid reflector antennas . . microwave filters slot antennas microwave equipment microwave absorption . gyrators waveguide antennas (added August 1991)
DEF The absorption of electromagnetic ra-. microwave filters microwave attenuation bandpass filters diation in the microwave frequency range. bandstop filters GS attenuation energy absorption GS digital filters microwave attenuation . radiation absorption FIR filters transmission . . electromagnetic absorption . electromagnetic wave transmission high pass filters low pass filters radar filters .. microwave absorption . . microwave attenuation RT absorptance . signal transmission  $\infty$  absorption radio filters . microwave attenuation absorption spectra microwave absorption RT rectangular waveguides tunable filters absorptivity wave propagation activation waveguide filters atmospheric attenuation microwave circuits microwave attenuation circuits microwave frequencies SN (1 TO 100 GHZ) GS frequencies GS microwave frequencies microwave circuits microwave scattering RT microstrip devices microwave transmission . radio frequencies microwaves microwave coupling . . microwave frequencies GS coupling radar ... C band radar absorbers . electromagnetic coupling extremely high frequencies ...P band . microwave coupling . . superhigh frequencies microwave amplifiers RT antenna couplers RT acoustic microscopes centimeter waves microwave absorption coupling circuits GS amplifiers cross coupling microwave amplifiers . . crossed field amplifiers directional antennas . . cyclotron resonance devices directional couplers microwaves

optical coupling

radio waves

electromagnetic radiation

microwave emission

passive L-band radiometers

praetersonic devices

microwave holography

GS imagery

. . planotrons

microwave equipment

. microwave amplifiers

. . crossed field amplifiers

. . cyclotron resonance devices

. photography

. . holography

.. microwave holography

imaging techniques microwaves

wave front reconstruction

#### microwave imagery

imagery

microwave imagery

radarscopes synthetic aperture radar x ray imagery

#### microwave interferometers

GS measuring instruments

. interferometers

. microwave interferometers

microwave equipment

microwave interferometers 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.

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 ∞ 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

imagery

. photography

microwave photography

RT radar data radar photography radarscopes

#### microwave plasma probes

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)

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

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

#### microwave reflectometers

GS measuring instruments

. optical measuring instruments

. . reflectometers

... microwave reflectometers

optical equipment

. optical measuring instruments

. . reflectometers

. microwave reflectometers

kinematics

#### microwave resonance

GS 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.

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

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 RT backscattering

microwave emission microwave scattering microwaves radar signatures

signature analysis

#### microwave sounding

GS sounding

. microwave sounding

Advanced Microwave Sounding Unit imagery

microwaves NOAA 12 satellite rocket sounding

#### microwave spectra

interstellar microwave spectra

spectra

. radiation spectra

. . electromagnetic spectra

. . . radio spectra

. . . microwave spectra

absorption spectra infrared spectra molecular rotation molecular spectra molecular spectroscopy

#### microwave spectrometers

measuring instruments GS

. spectrometers

. . microwave spectrometers

#### microwave switching

switching GS

. 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

RT ACTS

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

satellite solar energy conversion satellite solar power stations spacetennas

teletypewriter systems uplinking VSAT (network) wave propagation waveguides

power beaming

## microwave tubes

GS electron tubes

. vacuum tubes

. . microwave tubes ... celescopes

cyclotron resonance devices

. . . klystrons . . . magnetrons

.... nigotrons planotrons

. . . traveling wave tubes

. . . . backward wave tubes . . . . . helitrons

. . . carcinotrons of altitudes as with satellite instruments for the terminal guidance compiling of planetary maps. transearth injection microwave equipment altitude translunar injection . microwave tubes . . celescopes midaltitude . . cyclotron resonance devices flight altitude midcourse trajectories RT high altitude GS trajectories . . klystrons . . magnetrons low altitude . midcourse trajectories ... nigotrons ascent trajectories . . planotrons Midas 2 satellite ballistic trajectories GS artificial satellites coasting flight . traveling wave tubes . . . backward wave tubes . Midas satellites descent trajectories ... helitrons ... Midas 2 satellite parabolic flight . . carcinotrons military spacecraft . reconnaissance spacecraft diffraction radiation middle atmosphere gas discharge tubes . . Midas satellites The portion of the Earth's atmosphere extending from the troposphere to 100 kilomemicrowave oscillators ... Midas 2 satellite oscillators Midas 3 satellite GS Earth atmosphere photomultiplier tubes phototubes GS artificial satellites . middle atmosphere . Midas satellites . . mesosphere triodes ... Midas 3 satellite ... mesopause ∞ tubes military spacecraft . . stratosphere . reconnaissance spacecraft ... ozonosphere microwaves DEF Of, or pertaining to, radiation in the microwave region. Used for microwave radia-. . Midas satellites . . stratopause RT air ... Midas 3 satellite air pollution Midas 4 satellite ∞ atmospheres microwave radiation GS artificial satellites atmospheric chemistry GS electromagnetic radiation atmospheric circulation . Midas satellites . radio waves . Midas 4 satellite atmospheric composition . . short wave radiation military spacecraft chemosphere ... microwaves climatology equatorial atmosphere reconnaissance spacecraft . . . . centimeter waves . . Midas satellites .... cosmic microwave background ... Midas 4 satellite free atmosphere radiation heterosphere . . . . decimeter waves Midas 5 satellite . . . . microwave emission homosphere GS artificial satellites lower atmosphere . . . millimeter waves . Midas satellites cosmic noise midlatitude atmosphere . Midas 5 satellite diffraction radiation tropopause military spacecraft electromagnetic noise upper atmosphere . reconnaissance spacecraft extraterrestrial radio waves zonal flow (meteorology) . . Midas satellites infrared radiation ... Midas 5 satellite middle ear microwave absorption microwave frequencies GS anatomy Midas 6 satellite . sense organs microwave holography GS artificial satellites microwave signatures . Midas satellites . . middle ear microwave sounding . Midas 6 satellite ∞ radiation RT semicircular canals military spacecraft satellite solar energy conversion . reconnaissance spacecraft middle ear pressure satellite solar power stations . . Midas satellites GS pressure scatterometers ... Midas 6 satellite middle ear pressure submillimeter waves whistlers RT ear pressure test Midas 7 satellite eardrums GS artificial satellites microweighing Midas satellites Middle East weight measurement . Midas 7 satellite (added December 1995) military spacecraft microyield strength regions Stress at which a microstructure . reconnaissance spacecraft Middle East . . Midas satellites (single crystal, for example) exhibits a specified Africa ... Midas 7 satellite deviation in its stress-strain relationship. Asia GS mechanical properties Europe Midas satellites . yield strength GS artificial satellites midlatitude atmosphere . microyield strength . Midas satellites Earth atmosphere RT elastic properties ∞ strength . . Midas 2 satellite midlatitude atmosphere Midas 3 satellite environments stresses Midas 4 satellite midlatitude atmosphere yield point . . Midas 5 satellite RT Earth ionosphere . . Midas 6 satellite middle atmosphere micturition Midas 7 satellite sporadic E layer USE urination military spacecraft midair collisions . reconnaissance spacecraft midlatitudes ... Midas satellites USE temperate regions GS collisions Midas 2 satellite . midair collisions . bird-aircraft collisions Midas 3 satellite mid-ocean ridges RT air traffic control Midas 4 satellite (added July 1992) . . . Midas 5 satellite DEF Continuous, seismic, median mountain aircraft accidents Midas 6 satellite ranges extending through the North and South aircraft hazards Atlantic Oceans, the Indian Ocean and the aircraft safety Midas 7 satellite South Pacific Ocean. They are broad fractured Beacon Collision Avoidance System RT Atlas Agena B launch vehicle collision avoidance 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 quidance flight hazards guidance (motion) GS midcourse quidance km in length. According to the hypothesis of sea flight safety floor spreading, the mid-ocean ridges are the source of crustal material. command guidance

inertial guidance

injection guidance

rendezvous quidance spacecraft guidance

mid-oceanic ridges

Atlantic Ocean

geological faults

### 606

midaltitude

DEF

pilot error

threat evaluation

The average of many measurements

Indian Ocean		
Indian Ocean	bomber aircraft	H-19 helicopter
ocean bottom	C-1A aircraft	H-43 helicopter
oceanography	cargo aircraft	H-53 helicopter
Pacific Ocean	CH-62 helicopter	H-54 helicopter
	·	·
∞ ridges	CL-600 challenger aircraft	H-56 helicopter
sea floor spreading	drone aircraft	H-60 Helicopter
seamounts	drone vehicles	HC-3 helicopter
seismology	E-2 aircraft	HH-43 helicopter
submarine hydrothermal vents	E-3A aircraft	HH-65 helicopter
Submanne nyuromennar vents		
	E-4A aircraft	OH-4 helicopter
mid-oceanic ridges	fighter aircraft	OH-5 helicopter
USE mid-ocean ridges	Firebee 2 target drone aircraft	OH-6 helicopter
	FV-12A aircraft	OH-13 helicopter
Mie scattering	gliders	OH-23 helicopter
DEF Any scattering produced by spherical	•	·
	ground effect machines	OH-58 helicopter
particles without special regard to comparative	H-60 Helicopter	P-531 helicopter
size of radiation wavelength and particle diam-	Harrier aircraft	QH-50 helicopter
eter. Used for Mie theory.	helicopters	S-67 helicopter
UF Mie theory	•	
GS scattering	Jaguar aircraft	SA-321 helicopter
•	jet aircraft	SA-330 helicopter
. wave scattering	light aircraft	SH-3 helicopter
electromagnetic scattering	∞ military aviation	SH-4 helicopter
Mie scattering	military helicopters	Sikorsky Whirlwind helicopter
Rayleigh scattering		
	MRCA aircraft	UH-1 helicopter
Mia theony	nuclear propelled aircraft	UH-2 helicopter
Mie theory	observation aircraft	UH-34 helicopter
USE Mie scattering	passenger aircraft	UH-60A helicopter
	pilotless aircraft	UH-61A helicopter
MiG aircraft	•	
DEF Any of a series of Soviet fighter air-	reconnaissance aircraft	Westland Whirlwind helicopter
	research aircraft	XV-9A aircraft
craft, fighter-bombers, interceptors, and air su-	rotary wing aircraft	RT ∞ aircraft
premacy aircraft, designed by Mikoyan.	S-3 aircraft	attack aircraft
GS attack aircraft		
. fighter aircraft	short takeoff aircraft	EH-101 helicopter
. MiG aircraft	SR-71 aircraft	light helicopters
	submersible aircraft	∞ military aircraft
single engine aircraft	tailless aircraft	reconnaissance aircraft
. MiG aircraft	tanker aircraft	terrain following
supersonic aircraft		terrain following
. MiG aircraft	target drone aircraft	
	training aircraft	military operations
RT ∞ aircraft	transport aircraft	GS military operations
	unmanned aircraft systems	. combat
migration	•	. electronic warfare
RT behavior	utility aircraft	
phenology	V-22 aircraft	RT deployment
waterfowl	V/STOL aircraft	military personnel
wateriowi	vertical takeoff aircraft	tactics
	weapon systems	tanks (combat vehicles)
Mil aircraft		tarino (oombat voinoloo)
RT ∞ aircraft	X-45 aircraft	
	YC-14 aircraft	military personnel
Miles Is a site to the same	YF-12 aircraft	(added June 2004)
Milankovitch theory		
		DFF Persons serving in any branch of the
USE climatology		DEF Persons serving in any branch of the
USE climatology	∞ military aviation	armed forces; members of a military force.
	SN (USE OF A MORE SPECIFIC TERM IS	armed forces; members of a military force. GS personnel
military air facilities	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	armed forces; members of a military force. GS personnel . military personnel
military air facilities  UF aircraft bases	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)	armed forces; members of a military force. GS personnel . military personnel
military air facilities	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	armed forces; members of a military force.  GS personnel . military personnel RT military operations
military air facilities  UF aircraft bases	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)	armed forces; members of a military force. GS personnel
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) RT ∞ aeronautics air law	armed forces; members of a military force.  GS personnel . military personnel RT military operations
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) RT ∞ aeronautics air law armed forces	armed forces; members of a military force.  GS personnel . military personnel RT military operations military psychology police
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) RT ∞ aeronautics air law armed forces aviation meteorology	armed forces; members of a military force. GS personnel
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics air law armed forces aviation meteorology bomber aircraft	armed forces; members of a military force.  GS personnel . military personnel RT military operations military psychology police  military psychiatry
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) RT ∞ aeronautics air law armed forces aviation meteorology	armed forces; members of a military force.  GS personnel . military personnel RT military operations military psychology police
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics air law armed forces aviation meteorology bomber aircraft fighter aircraft	armed forces; members of a military force.  GS personnel
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports ∞ facilities  ∞ fields hangars	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics air law armed forces aviation meteorology bomber aircraft fighter aircraft ∞ military aircraft	armed forces; members of a military force.  GS personnel
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities  ∞ fields hangars heliports	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics air law armed forces aviation meteorology bomber aircraft fighter aircraft	armed forces; members of a military force.  GS personnel . military personnel  RT military operations military psychology police  military psychiatry USE military psychology  military psychology  UF military psychiatry
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports ∞ facilities  ∞ fields hangars heliports landing aids	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) RT ∞ aeronautics air law armed forces aviation meteorology bomber aircraft fighter aircraft military aircraft reconnaissance aircraft	armed forces; members of a military force.  GS personnel  . military personnel  RT military psychology police  military psychiatry USE military psychology  military psychology  UF military psychology  GS psychology
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports ∞ facilities ∞ fields hangars heliports landing aids landing mats	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics air law armed forces aviation meteorology bomber aircraft fighter aircraft ∞ military aircraft reconnaissance aircraft  military compact reactors	armed forces; members of a military force.  GS personnel . military personnel  RT military operations military psychology police  military psychiatry USE military psychology  military psychology  UF military psychiatry
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) RT ∞ aeronautics air law armed forces aviation meteorology bomber aircraft fighter aircraft military aircraft reconnaissance aircraft	armed forces; members of a military force.  GS personnel . military personnel RT military operations military psychology police  military psychiatry USE military psychology  military psychology  UF military psychiatry GS psychology . military psychology . military psychology
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports ∞ facilities ∞ fields hangars heliports landing aids landing mats	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics     air law         armed forces         aviation meteorology         bomber aircraft         fighter aircraft         ∞ military aircraft         reconnaissance aircraft  military compact reactors  UF MCR reactors	armed forces; members of a military force.  GS personnel . military personnel RT military operations military psychology police  military psychiatry USE military psychology  military psychology  UF military psychiatry GS psychology . military psychology RT aviation psychology
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics     air law     armed forces     aviation meteorology     bomber aircraft     fighter aircraft     ∞ military aircraft     reconnaissance aircraft  military compact reactors  UF MCR reactors  GS nuclear reactors	armed forces; members of a military force.  GS personnel . military personnel RT military operations military psychology police  military psychiatry USE military psychology  military psychology UF military psychology GS psychology . military psychology RT aviation psychology military personnel
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) RT ∞ aeronautics air law armed forces aviation meteorology bomber aircraft fighter aircraft ∞ military aircraft reconnaissance aircraft  military compact reactors UF MCR reactors GS nuclear reactors . liquid cooled reactors	armed forces; members of a military force.  GS personnel  . military personnel  RT military perations military psychology police  military psychiatry USE military psychology  military psychology  UF military psychology  GS psychology . military psychology RT aviation psychology military personnel psychiatry
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports ∞ facilities ∞ fields hangars heliports landing aids landing mats navigation aids stations  ∞ military aircraft	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) RT ∞ aeronautics     air law     armed forces     aviation meteorology     bomber aircraft     fighter aircraft     ∞ military aircraft     reconnaissance aircraft  military compact reactors UF MCR reactors GS nuclear reactors     . liquid cooled reactors     . liquid metal cooled reactors	armed forces; members of a military force.  GS personnel . military personnel RT military operations military psychology police  military psychiatry USE military psychology  military psychology UF military psychology GS psychology . military psychology RT aviation psychology military personnel
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations  military aircraft SN (USE OF A MORE SPECIFIC TERM IS	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) RT ∞ aeronautics air law armed forces aviation meteorology bomber aircraft fighter aircraft ∞ military aircraft reconnaissance aircraft  military compact reactors UF MCR reactors GS nuclear reactors . liquid cooled reactors	armed forces; members of a military force.  GS personnel . military personnel RT military personnel military psychology police  military psychology  military psychology  military psychology  military psychology  military psychology  military psychology . military psychology awiation psychology military personnel psychiatry psychological effects
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations  ∞ military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) RT ∞ aeronautics     air law     armed forces     aviation meteorology     bomber aircraft     fighter aircraft     ∞ military aircraft     reconnaissance aircraft  military compact reactors UF MCR reactors GS nuclear reactors     . liquid cooled reactors     . liquid metal cooled reactors	armed forces; members of a military force.  GS personnel . military personnel RT military operations military psychology police  military psychology USE military psychology  military psychology  UF military psychiatry GS psychology . military psychology RT aviation psychology military personnel psychiatry psychological effects psychological tests
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations   ∞ military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics     air law         armed forces         aviation meteorology         bomber aircraft         fighter aircraft         ≈ military aircraft         reconnaissance aircraft  military compact reactors  UF MCR reactors  GS nuclear reactors         . liquid cooled reactors         . liquid metal cooled reactors         . military compact reactors         . military compact reactors         . nuclear research and test reactors	armed forces; members of a military force.  GS personnel . military personnel RT military operations military psychology police  military psychiatry USE military psychology  military psychology  WF military psychiatry GS psychology . military psychology RT aviation psychology military personnel psychiatry psychological effects psychological tests psychometrics
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations  military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT A-37 aircraft	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics air law armed forces aviation meteorology bomber aircraft fighter aircraft ∞ military aircraft reconnaissance aircraft  military compact reactors UF MCR reactors GS nuclear reactors . liquid cooled reactors . liquid metal cooled reactors . liquid metal cooled reactors military compact reactors military compact reactors	armed forces; members of a military force.  GS personnel . military personnel RT military operations military psychology police  military psychology USE military psychology  military psychology  UF military psychiatry GS psychology . military psychology RT aviation psychology military personnel psychiatry psychological effects psychological tests
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations  military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT A-37 aircraft AH-1G helicopter	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics     air law         armed forces         aviation meteorology         bomber aircraft         fighter aircraft         reconnaissance aircraft  military compact reactors  UF MCR reactors  GS nuclear reactors         . liquid cooled reactors         . liquid metal cooled reactors         . military compact reactors         . nuclear research and test reactors         . nuclear research and test reactors         . military compact reactors         . military compact reactors         . military compact reactors         . military compact reactors	armed forces; members of a military force.  GS personnel . military personnel RT military psychology police  military psychology  ilitary psychology military psychology
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations  ∞ military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT A-37 aircraft AH-1G helicopter AH-1S helicopter	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) RT ∞ aeronautics     air law         armed forces         aviation meteorology         bomber aircraft         fighter aircraft         reconnaissance aircraft  military compact reactors UF MCR reactors GS nuclear reactors . liquid cooled reactors . liquid cooled reactors . military compact reactors	armed forces; members of a military force.  GS personnel . military personnel RT military operations military psychology police  military psychology USE military psychology military psychology  uff military psychology spychology military psychology RT aviation psychology military psychological effects psychological effects psychometrics space psychology military spacecraft
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations  military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT A-37 aircraft AH-1G helicopter	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics     air law         armed forces         aviation meteorology         bomber aircraft         fighter aircraft         reconnaissance aircraft  military compact reactors  UF MCR reactors  GS nuclear reactors         . liquid cooled reactors         . liquid metal cooled reactors         . military compact reactors         . nuclear research and test reactors         . nuclear research and test reactors         . military compact reactors         . military compact reactors         . military compact reactors         . military compact reactors	armed forces; members of a military force.  GS personnel . military personnel RT military psychology police  military psychology  ilitary psychology military psychology
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations  ∞ military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT A-37 aircraft AH-1G helicopter AH-1S helicopter AH-1W helicopter	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics     air law         armed forces         aviation meteorology         bomber aircraft         fighter aircraft         reconnaissance aircraft  military compact reactors  UF MCR reactors GS nuclear reactors         . liquid cooled reactors         . liquid metal cooled reactors         . military compact reactors  military helicopters GS V/STOL aircraft	armed forces; members of a military force.  GS personnel . military personnel RT military operations military psychology police  military psychiatry USE military psychology  military psychology  UF military psychiatry GS psychology . military psychology RT aviation psychology military personnel psychiatry psychological effects psychological tests psychometrics space psychology  military spacecraft GS military spacecraft
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations   military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT A-37 aircraft AH-1G helicopter AH-1W helicopter AH-1W helicopter AH-63 helicopter	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics     air law         armed forces         aviation meteorology         bomber aircraft         fighter aircraft         reconnaissance aircraft  military compact reactors  UF MCR reactors  GS nuclear reactors         . liquid cooled reactors         . liquid metal cooled reactors         . military compact reactors  military helicopters GS V/STOL aircraft         . rotary wing aircraft	armed forces; members of a military force.  GS personnel . military personnel RT military operations military psychology police  military psychiatry USE military psychology  military psychology  UF military psychology GS psychology . military psychology aviation psychology military personnel psychiatry psychological effects psychological tests psychology military spacecraft GS military spacecraft . DMSP satellites
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations  ∞ military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT A-37 aircraft AH-1G helicopter AH-1S helicopter AH-1W helicopter AH-63 helicopter AH-64 helicopter	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics     air law         armed forces         aviation meteorology         bomber aircraft         fighter aircraft         ≈ military aircraft         reconnaissance aircraft  military compact reactors  UF MCR reactors GS nuclear reactors         . liquid cooled reactors         . liquid metal cooled reactors         . military compact reactors         . nuclear research and test reactors         . military compact reactors  military helicopters GS V/STOL aircraft         . rotary wing aircraft         . helicopters	armed forces; members of a military force.  GS personnel . military personnel RT military operations military psychology police  military psychology  military psychology  military psychology  military psychology  military psychology . military psychology military psychology military psychology military psychology military psychology military personnel psychological effects psychological tests psychological tests psychometrics space psychology  military spacecraft GS military spacecraft . DMSP satellites . reconnaissance spacecraft
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations  ∞ military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT A-37 aircraft AH-1G helicopter AH-1W helicopter AH-1W helicopter AH-63 helicopter AH-64 helicopter  AH-64 helicopter  ∞ aircraft  ∞ aircraft	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics     air law         armed forces         aviation meteorology         bomber aircraft         fighter aircraft         reconnaissance aircraft  military compact reactors  UF MCR reactors  GS nuclear reactors         . liquid cooled reactors         . liquid cooled reactors         . military compact reactors  military helicopters         GS V/STOL aircraft         . rotary wing aircraft         . helicopters         military helicopters         military helicopters	armed forces; members of a military force.  GS personnel . military personnel RT military operations military psychology police  military psychology  military psychology  military psychology  military psychology  military psychology . military psychology military psychology military psychology military psychology military psychology military personnel psychiatry psychological effects psychological fects psychological tests psychometrics space psychology  military spacecraft GS military spacecraft . DMSP satellites . reconnaissance spacecraft . Inspector satellite
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations  ∞ military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT A-37 aircraft AH-1G helicopter AH-1S helicopter AH-1W helicopter AH-63 helicopter AH-64 helicopter	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics     air law         armed forces         aviation meteorology         bomber aircraft         fighter aircraft         omilitary aircraft         reconnaissance aircraft  military compact reactors  UF MCR reactors  GS nuclear reactors         . liquid cooled reactors         . liquid metal cooled reactors         . military compact reactors         . nuclear research and test reactors         . military compact reactors  military helicopters  GS V/STOL aircraft         rotary wing aircraft         . helicopters         . military helicopters         . military helicopters         . military helicopters         . military helicopters         military helicopters         AH-1G helicopter	armed forces; members of a military force.  GS personnel . military personnel RT military operations military psychology police  military psychology  WE military psychology  military psychology  UF military psychology . military psychology RT aviation psychology military personnel psychiatry psychological effects psychological tests psychometrics space psychology  military spacecraft GS military spacecraft . DMSP satellites . reconnaissance spacecraft . Inspector satellite . Midas satellites
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations  ∞ military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT A-37 aircraft AH-1G helicopter AH-1W helicopter AH-1W helicopter AH-63 helicopter AH-64 helicopter  AH-64 helicopter  ∞ aircraft  ∞ aircraft	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics     air law         armed forces         aviation meteorology         bomber aircraft         fighter aircraft         reconnaissance aircraft  military compact reactors  UF MCR reactors  GS nuclear reactors         . liquid cooled reactors         . liquid cooled reactors         . military compact reactors  military helicopters         GS V/STOL aircraft         . rotary wing aircraft         . helicopters         military helicopters         military helicopters	armed forces; members of a military force.  GS personnel . military personnel RT military operations military psychology police  military psychology  military psychology  military psychology  military psychology  military psychology . military psychology military psychology military psychology military psychology military psychology military personnel psychiatry psychological effects psychological fects psychological tests psychometrics space psychology  military spacecraft GS military spacecraft . DMSP satellites . reconnaissance spacecraft . Inspector satellite
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations  ∞ military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT A-37 aircraft AH-1G helicopter AH-1S helicopter AH-1S helicopter AH-63 helicopter AH-64 helicopter AH-64 helicopter AH-64 helicopter  ∞ aircraft aircraft carriers aircraft survivability	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics     air law	armed forces; members of a military force.  GS personnel . military personnel RT military operations military psychology police  military psychiatry USE military psychology  military psychology  UF military psychiatry GS psychology . military psychology RT aviation psychology military personnel psychiatry psychological effects psychological tests psychological tests psychometrics space psychology  military spacecraft GS military spacecraft . DMSP satellites . reconnaissance spacecraft . Inspector satellite . Miclas satellites . Midas 2 satellite
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations  ∞ military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT A-37 aircraft AH-1G helicopter AH-1S helicopter AH-1S helicopter AH-63 helicopter AH-64 helicopter  AH-64 helicopter  ∞ aircraft aircraft carriers aircraft survivability airships	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics     air law         armed forces         aviation meteorology         bomber aircraft         fighter aircraft         reconnaissance aircraft  military compact reactors  UF MCR reactors  GS nuclear reactors         . liquid cooled reactors         . liquid metal cooled reactors         . nuclear research and test reactors         . military compact reactors         . military compact reactors  military helicopters         S V/STOL aircraft         . rotary wing aircraft         . helicopters         . military helicopters         AH-1G helicopter         AH-1S helicopter         AH-1W helicopter	armed forces; members of a military force.  GS personnelmilitary personnel RT military operations military psychology police  military psychology  military psychology  military psychology  uf military psychology military personnel psychological effects psychological tests psychological tests psychometrics space psychology  military spacecraft GS military spacecraft . DMSP satellites . reconnaissance spacecraft . Inspector satellite . Midas 2 satellite . Midas 2 satellite . Midas 3 satellite
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations  ∞ military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT A-37 aircraft AH-1G helicopter AH-1S helicopter AH-63 helicopter AH-64 helicopter  AH-64 helicopter  AH-64 helicopter  ∞ aircraft aircraft carriers aircraft survivability airships Alpha jet aircraft	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics     air law         armed forces         aviation meteorology         bomber aircraft         fighter aircraft         reconnaissance aircraft  military compact reactors  UF MCR reactors  GS nuclear reactors         . liquid cooled reactors         . liquid metal cooled reactors         . military compact reactors         . nuclear research and test reactors         . military compact reactors  military compact reactors  military compact reactors  military compact reactors  military helicopters         . helicopters         . military helicopter         . AH-1G helicopter         . AH-18 helicopter         . AH-63 helicopter         AH-63 helicopter	armed forces; members of a military force.  GS personnelmilitary personnel RT military operations military psychology police  military psychology  military psychology  military psychology  military psychology  military psychologymilitary psychology military psychological effects psychological effects psychometrics space psychology  military spacecraft GS military spacecraftDMSP satellitesreconnaissance spacecraftInspector satelliteMidas 2 satelliteMidas 3 satelliteMidas 3 satelliteMidas 4 satellite
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations  ∞ military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT A-37 aircraft AH-1G helicopter AH-1S helicopter AH-1S helicopter AH-64 helicopter AH-64 helicopter AH-64 helicopter AH-654 helicopter AH-654 helicopter AH-654 helicopter AH-655 helicopter AH-665 helicopter AH-676 helicopter AH-676 helicopter AH-686 helicopter AH-697 helicopter AH-698 helicopter AH-699 helicopter	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics     air law         armed forces         aviation meteorology         bomber aircraft         fighter aircraft         reconnaissance aircraft  military compact reactors  UF MCR reactors  GS nuclear reactors         . liquid cooled reactors         . liquid metal cooled reactors         . military compact reactors  military helicopters  GS V/STOL aircraft         . rotary wing aircraft         . helicopters         . MH-1G helicopter         . AH-1G helicopter         . AH-16 helicopter         . AH-64 helicopter         . AH-64 helicopter	armed forces; members of a military force.  GS personnelmilitary personnel RT military operations military psychology police  military psychology  military psychology  military psychology  UF military psychology military psychology military psychology military psychology military psychology military psychology military personnel psychiatry psychological effects psychological tests psychological tests psychometrics space psychology  military spacecraft GS military spacecraft . DMSP satellites . reconnaissance spacecraft . Inspector satellite . Midas 3 satellite . Midas 3 satellite . Midas 4 satellite . Midas 5 satellite . Midas 5 satellite
military air facilities  UF aircraft bases RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations  ∞ military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT A-37 aircraft AH-1G helicopter AH-1S helicopter AH-1S helicopter AH-63 helicopter AH-64 helicopter AH-64 helicopter AH-65 helicopter AH-64 helicopter AH-65 helicopter AH-67 helicopter AH-68 helicopter AH-68 helicopter AH-69 helicopter	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics     air law         armed forces         aviation meteorology         bomber aircraft         fighter aircraft         reconnaissance aircraft  military compact reactors  UF MCR reactors  GS nuclear reactors         . liquid cooled reactors         . liquid metal cooled reactors         . military compact reactors  military helicopters  GS V/STOL aircraft         . rotary wing aircraft         . helicopters         MH-1G helicopter         AH-1G helicopter         AH-1S helicopter         AH-64 helicopter         AH-64 helicopter         AH-64 helicopter	armed forces; members of a military force.  GS personnelmilitary personnel RT military operations military psychology police  military psychology  military psychology  military psychology  military psychology  military psychologymilitary psychology military psychological effects psychological effects psychometrics space psychology  military spacecraft GS military spacecraftDMSP satellitesreconnaissance spacecraftInspector satelliteMidas 2 satelliteMidas 3 satelliteMidas 3 satelliteMidas 4 satellite
military air facilities  UF aircraft bases RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations  ∞ military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT A-37 aircraft AH-1G helicopter AH-1S helicopter AH-1S helicopter AH-63 helicopter AH-64 helicopter AH-64 helicopter AH-65 helicopter AH-64 helicopter AH-65 helicopter AH-67 helicopter AH-68 helicopter AH-68 helicopter AH-69 helicopter	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics     air law         armed forces         aviation meteorology         bomber aircraft         fighter aircraft         reconnaissance aircraft  military compact reactors  UF MCR reactors  GS nuclear reactors         . liquid cooled reactors         . liquid metal cooled reactors         . military compact reactors  military helicopters  GS V/STOL aircraft         . rotary wing aircraft         . helicopters         . MH-1G helicopter         . AH-1G helicopter         . AH-16 helicopter         . AH-64 helicopter         . AH-64 helicopter	armed forces; members of a military force.  GS personnelmilitary personnel RT military operations military psychology police  military psychology  military psychology  military psychology  UF military psychology military psychology military psychology military psychology military psychology military psychology military personnel psychiatry psychological effects psychological tests psychological tests psychometrics space psychology  military spacecraft GS military spacecraft . DMSP satellites . reconnaissance spacecraft . Inspector satellite . Midas 3 satellite . Midas 3 satellite . Midas 4 satellite . Midas 5 satellite . Midas 5 satellite
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations  ∞ military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT A-37 aircraft AH-1G helicopter AH-1S helicopter AH-1W helicopter AH-63 helicopter AH-64 helicopter AH-64 helicopter  AH-64 helicopter  ∴ aircraft aircraft carriers aircraft survivability airships Alpha jet aircraft armed forces	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics     air law     armed forces     aviation meteorology     bomber aircraft     fighter aircraft     reconnaissance aircraft  military compact reactors  UF MCR reactors  GS nuclear reactors     . liquid cooled reactors     . liquid metal cooled reactors          . military compact reactors          . nuclear research and test reactors          . military compact reactors  military helicopters GS V/STOL aircraft          . rotary wing aircraft          . helicopters          . military helicopters          . AH-1G helicopter          . AH-18 helicopter          . AH-64 helicopter          . AH-64 helicopter          . BO-105 helicopter          . CH-3 helicopter	armed forces; members of a military force. GS personnel
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations  ∞ military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT A-37 aircraft AH-1G helicopter AH-1S helicopter AH-1W helicopter AH-63 helicopter AH-64 helicopter AH-64 helicopter  AH-64 helicopter  AH-65 helicopter AH-65 helicopter AH-65 helicopter AH-67 helicopter AH-68 helicopter AH-69 helicopter	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics     air law         armed forces         aviation meteorology         bomber aircraft         fighter aircraft         reconnaissance aircraft  military compact reactors  UF MCR reactors  GS nuclear reactors         . liquid cooled reactors         . liquid metal cooled reactors         . military compact reactors         . nuclear research and test reactors         . military compact reactors  military helicopters  GS V/STOL aircraft         . helicopters         . AH-1G helicopter         . AH-1B helicopter         . AH-63 helicopter         . AH-64 helicopter         . BO-105 helicopter         . CH-3 helicopter         . CH-31 helicopter         . CH-21 helicopter         . CH-21 helicopter         . CH-21 helicopter         . CH-21 helicopter	armed forces; members of a military force. GS personnel
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations  ∞ military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT A-37 aircraft AH-1G helicopter AH-1S helicopter AH-1S helicopter AH-64 helicopter AH-64 helicopter AH-64 helicopter AH-64 helicopter AH-65 aircraft aircraft carriers aircraft survivability airships Alpha jet aircraft armed forces armed forces armed forces (United States) attack aircraft	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics     air law         armed forces         aviation meteorology         bomber aircraft         fighter aircraft         reconnaissance aircraft  military compact reactors  UF MCR reactors  GS nuclear reactors         . liquid cooled reactors         . liquid metal cooled reactors         . military compact reactors  military helicopters  GS V/STOL aircraft         rotary wing aircraft         . helicopters         . AH-1G helicopter         . AH-1G helicopter         . AH-18 helicopter         . AH-19 helicopter         . AH-64 helicopter         . BO-105 helicopter         . CH-21 helicopter         . CH-21 helicopter         . CH-34 helicopter         . CH-34 helicopter         . CH-34 helicopter	armed forces; members of a military force. GS personnel
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations  ∞ military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT A-37 aircraft AH-1G helicopter AH-1S helicopter AH-1S helicopter AH-63 helicopter AH-64 helicopter AH-64 helicopter AH-64 helicopter AH-65 helicopter AH-67 helicopter AH-68 helicopter AH-69 heli	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics     air law         armed forces         aviation meteorology         bomber aircraft         fighter aircraft         reconnaissance aircraft  military compact reactors  UF MCR reactors  GS nuclear reactors         . liquid cooled reactors         . liquid metal cooled reactors         . nuclear research and test reactors         . nuclear research and test reactors         . military compact reactors  military helicopters  GS V/STOL aircraft         rotary wing aircraft         . helicopters         . MH-1G helicopter         . AH-1S helicopter         . AH-1B helicopter         . AH-1B helicopter         . AH-64 helicopter         . CH-34 helicopter         . CH-34 helicopter         . CH-34 helicopter         . CH-46 helicopter	armed forces; members of a military force. GS personnelmilitary personnel RT military operations military psychology police  military psychology  military psychology  military psychology  UF military psychology military psychology sychology military psychology military psychology military psychology military psychology military personnel psychiatry psychological effects psychological effects psychological tests psychometrics space psychology  military spacecraft GS military spacecraft . DMSP satellites . reconnaissance spacecraft . Inspector satellite . Midas 3 satellite . Midas 3 satellite . Midas 4 satellite . Midas 5 satellite . Midas 6 satellite . Midas 7 satellite . Midas 7 satellite . Midas 5 satellite . Midas 5 satellite . Samos . Vela satellites
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations  ∞ military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT A-37 aircraft AH-1G helicopter AH-1S helicopter AH-1S helicopter AH-64 helicopter AH-64 helicopter AH-64 helicopter AH-64 helicopter AH-65 aircraft aircraft carriers aircraft survivability airships Alpha jet aircraft armed forces armed forces armed forces (United States) attack aircraft	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics     air law         armed forces         aviation meteorology         bomber aircraft         fighter aircraft         reconnaissance aircraft  military compact reactors  UF MCR reactors  GS nuclear reactors         . liquid cooled reactors         . liquid metal cooled reactors         . military compact reactors  military helicopters  GS V/STOL aircraft         rotary wing aircraft         . helicopters         . AH-1G helicopter         . AH-1G helicopter         . AH-18 helicopter         . AH-19 helicopter         . AH-64 helicopter         . BO-105 helicopter         . CH-21 helicopter         . CH-21 helicopter         . CH-34 helicopter         . CH-34 helicopter         . CH-34 helicopter	armed forces; members of a military force. GS personnel
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations  ∞ military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT A-37 aircraft AH-1G helicopter AH-1S helicopter AH-1S helicopter AH-63 helicopter AH-64 helicopter AH-64 helicopter AH-64 helicopter AH-65 helicopter AH-67 helicopter AH-68 helicopter AH-69 heli	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics     air law     armed forces     aviation meteorology     bomber aircraft     fighter aircraft     omilitary aircraft     reconnaissance aircraft  military compact reactors  UF MCR reactors  GS nuclear reactors     . liquid cooled reactors     . liquid metal cooled reactors          . nuclear research and test reactors          . nuclear research and test reactors          . military compact reactors  military helicopters  GS V/STOL aircraft          . rotary wing aircraft          . helicopters          . AH-1G helicopter          . AH-18 helicopter          . AH-64 helicopter          . AH-64 helicopter          . CH-21 helicopter          . CH-34 helicopter          . CH-46 helicopter          . CH-47 helicopter          . CH-47 helicopter          . CH-47 helicopter          . CH-47 helicopter	armed forces; members of a military force. GS personnelmilitary personnel RT military operations military psychology police  military psychology  military psychology  military psychology  UF military psychology military psychology sychology military psychology military psychology military psychology military psychology military personnel psychiatry psychological effects psychological effects psychological tests psychometrics space psychology  military spacecraft GS military spacecraft . DMSP satellites . reconnaissance spacecraft . Inspector satellite . Midas 3 satellite . Midas 3 satellite . Midas 4 satellite . Midas 5 satellite . Midas 6 satellite . Midas 7 satellite . Midas 7 satellite . Midas 5 satellite . Midas 5 satellite . Samos . Vela satellites
military air facilities  UF aircraft bases  RT air traffic control  ∞ aircraft aircraft carriers airports  ∞ facilities  ∞ fields hangars heliports landing aids landing mats navigation aids stations  ∞ military aircraft  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT A-37 aircraft AH-1G helicopter AH-1S helicopter AH-1S helicopter AH-63 helicopter AH-64 helicopter AH-64 helicopter  AH-64 helicopter aircraft aircraft aircraft aircraft survivability airships Alpha jet aircraft armed forces armed forces (foreign) armed forces (United States) attack aircraft attacking (assaulting) AWACS aircraft	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  RT ∞ aeronautics     air law         armed forces         aviation meteorology         bomber aircraft         fighter aircraft         reconnaissance aircraft  military compact reactors  UF MCR reactors  GS nuclear reactors         . liquid cooled reactors         . liquid metal cooled reactors         . nuclear research and test reactors         . nuclear research and test reactors         . military compact reactors  military helicopters  GS V/STOL aircraft         rotary wing aircraft         . helicopters         . MH-1G helicopter         . AH-1S helicopter         . AH-1B helicopter         . AH-1B helicopter         . AH-64 helicopter         . CH-34 helicopter         . CH-34 helicopter         . CH-34 helicopter         . CH-46 helicopter	armed forces; members of a military force. GS personnel

### military technology

Columbus space station . grains (food) . . . MIM (semiconductors) evasive satellites millet semiconductors (materials) manned spacecraft plants (botany) MIM (semiconductors) meteorological satellites millet RT SIS (semiconductors) military vehicles Earth resources navigation satellites flour (food) MIM diodes recoverable spacecraft Junction diodes each consisting of an ∞ food rendezvous spacecraft grasses insulating layer sandwiched between two metalsatellite networks lic surface layers and exhibiting a negative difmillimeter waves ferential resistance in its V-1 characteristics conspace stations GS electromagnetic radiation ceivably because of stimulated inelastic tunnelspace surveillance (spaceborne) . radio waves ing of electrons. Used for metal-insulator-metal ∞ spacecraft . . short wave radiation synchronous satellites diodes. . . . microwaves metal-insulator-metal diodes unmanned spacecraft . . . millimeter waves electronic equipment weapon systems beam plasma amplifiers . diodes military technology C band . . semiconductor diodes . . . junction diodes technologies CN emission GS . . . . MIM diodes military technology cyclotron resonance devices decimeter waves . solid state devices antimissile defense antiradiation missiles . . semiconductor devices electromagnetic noise . . . junction diodes extraterrestrial radio waves antisubmarine warfare extremely high frequencies ... MIM diodes armed forces (foreign) electron tunneling frequencies armed forces (United States) solar radio emission MSM (semiconductors) Army-Navy instrumentation program submillimeter waves negative resistance devices AWACS aircraft wavelengths Ballistic Missile Early Warning System semiconductor diodes tunnel diodes defense communications system  $\infty$  milling (DCS) (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) Mimas defense industry DEF A satellite of Saturn orbiting at a mean defense program distance of 186,000 kilometers. deployment comminution GS celestial bodies Fleet Satellite Communication System compounding . natural satellites interservice data exchange program . . icy satellites laser weapons milling (machining) logistics over the shore (LOTS) cutting GS . . Saturn satellites milling (machining) missile defense . Mimas machining milling (machining) Saturn (planet) optical countermeasures radar homing missiles chemical machining MIMD (computers) Safeguard system grooving A type of parallel processor that is tactics metal cutting DFF essentially two or more individual computers weapons planing with facilities for interaction and work sharing. weapons delivery Used for multiple instruction multiple data weapons industry milling (mixing) stream. USE compounding UF multiple instruction multiple data ∞ military vehicles (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) milling machines stream SN GS tools GS data processing equipment . machine tools . computers aeroquatic vehicles . . digital computers . milling machines aircraft carriers ... parallel computers grinding machines ambulances ∞ machinery MIMD (computers) amphibious vehicles RT architecture (computers) shapers armed forces computer design armed forces (foreign) computer programming millivoltmeters armed forces (United States) measuring instruments concurrent processing automobiles . voltmeters interprocessor communication boats . millivoltmeters operating systems (computers) military spacecraft parallel processing (computers) galvanometers recovery vehicles SIMD (computers) research vehicles Mills ratio ships MIMO (control systems) ratios GS submarines Mills ratio (added January 1991) tanks (combat vehicles) UF multiple input multiple output failure trucks RT ∞ control failure analysis underwater vehicles control stability life (durability) ∞ vehicles control systems design mortality water vehicles probability density functions control theory statistical analysis feedback control milk ∞ systems RT beverages Milne method systems stability ∞ food GS analysis (mathematics) . numerical analysis Mindlin plate theory Milky Way Galaxy . . approximation (added April 1998) The galaxy to which the sun belongs. . . Milne method USE Mindlin plates GS celestial bodies RT differential equations . galaxies Mindlin plates ∞ methodology . . spiral galaxies (added April 1998) . Milky Way Galaxy Milne-Thomson method Mindlin plate theory Reissner-Mindlin plates galactic bulge RT incompressible flow local group (astronomy) structural members ∞ methodology massive compact halo objects . plates (structural members) Navier-Stokes equation Orion nebula . Mindlin plates viscous flow radio sources (astronomy) dynamic structural analysis solar neighborhood MIM (semiconductors) finite element method metal-insulator-metal semiconductors free vibration GS electronic equipment plate theory . solid state devices millet Reissner theory

. . semiconductor devices

shear strain

GS

farm crops

structural analysis	. euxenite	silicates
structural vibration	. fayalite	sodium silicates
thick plates	. feldspars	soils
trion plates	•	
mine detectors	plagioclase	underground acoustics
	. fluorite	veins (petrology)
GS warning systems	. fluorspar	zeolites
mine detectors	garnets	
RT ∞ detectors	. gadolinium-gallium garnet	∞ mines
warning	yttrium-aluminum garnet	SN (USE OF A MORE SPECIFIC TERM IS
	,	RECOMMENDEDCONSULT THE TERMS
Miner rule	yttrium-iron garnet	LISTED BELOW) RT mines (excavations)
USE Palmgren-Miner rule	. gehlenite	
	. graphite	mines (ordnance)
mineral deposits	pyrolytic graphite	and the second the second
RT contacts (geology)	. gypsum	mines (excavations)
(8 8)	. hexahedrite	UF quarries
dredging	. illite	RT core sampling
Earth resources		drainage
excavation	. ilmenite	exploitation
geology	. iron ores	exploration
lunar mining	hematite	lunar mining
mineralogy	. kamacite	materials handling
minerals	. kaolinite	
mines (excavations)	. kreep	mineral deposits
mining	. limonite	mineral exploration
•	. magnetite	∞ mines
reserves	. merwinite	mining
strip mining		pits (excavations)
underwater resources	. mica	reserves
veins (petrology)	biotite	stratigraphy
	fluorophlogopite	strip mining
mineral exploration	muscovite	
GS exploration	. monticellite	subsidence
. mineral exploration	. montmorillonite	underground explosions
•	. nepheline	underground storage
		underground structures
excavation	. nephelite	waste disposal
minerals	. olivine	'
mines (excavations)	forsterite	mines (ordnance)
mining	. perovskites	GS weapons
ŭ	. proustite	. mines (ordnance)
mineral metabolism	. pyrites	
GS metabolism	. pyrophyllite	RT ammunition
. mineral metabolism	. pyroxenes	∞ mines
	enstatite	
RT body fluids		miniature electronic equipment
caloric requirements	. pyrrhotite	GS electronic equipment
endocrine systems	troilite	. miniature electronic equipment
secretions	. quartz	RT circuits
	coesite	∞ electric equipment
mineral oils	stishovite	electronic modules
GS oils	. scheelite	∞ equipment
. mineral oils	. schreibersite	
RT lubricating oils	. serpentine	microminiaturization
TTI lubilicating ons		microminiaturized electronic devices
	. siderites	micromodules
mineralogy	. spinel	miniaturization
RT chondrule	. spodumene	molecular electronics
crystallography	. talc	printed circuits
geochemistry	. tourmaline	solid state devices
geology	. vermiculite	subminiaturization
mineral deposits	. wurtzite	thin films
minerals	. zincblende	uiiii iiiiis
	RT aluminum silicates	
petrogenesis		miniaturization
petrology	andesite	GS miniaturization
∞ physical sciences	bauxite	. microminiaturization
siderophile elements	beneficiation	. subminiaturization
submarine hydrothermal vents	biogeochemistry	RT circuits
	bone mineral content	miniature electronic equipment
minerals	boreholes	printed circuits
DEF Naturally occurring inorganic elements	calcium silicates	printed elicate
or compounds having an orderly internal struc-	crystallites	transistors
ture and characteristic chemical compositions,	diorite	
		wafers
crystal forms, and physical properties.	dunite	
UF apatites	Earth resources	minicomputers
ores	felsite	GS data processing equipment
GS minerals	fluorosilicates	. computers
. akermanite	geology	. digital computers
. amphiboles	igneous rocks	minicomputers
. anatase	impact melts	Nova computers
. aragonite	lava	RT airborne/spaceborne computers
. asbestos	limestone	
		Atmospheric & Oceanographic Inform
. barite	lunar soil	Sys
. bastnasite	mineral deposits	microcomputers
. beryl	mineral exploration	
alexandrite	mineralogy .	minima
. bloedite	monazite sands	GS analysis (mathematics)
. brucite	mullites	. real variables
. calcite	∞ nutrients	extremum values
		extremum values <b>minima</b>
. chromites	obsidian	
. cohenite	potassium silicates	Cramer-Rao bounds
. cordierite	rocks	RT cusps (mathematics)
P1		
. cryolite	rutile	differential calculus
. cryolite . dawsonite		differential calculus maxima

optimization space surveillance (ground based) vision penalty function spacecraft tracking Mir space station range (extremes) STDN (network) DEF The Soviet space station launched steepest descent method ∞ systems February 20, 1986; its name means peace or world in Russian. It is a manned, modular, tracking networks minimal surfaces tracking stations permanent, and multi-mission station. DEF Surfaces for which the first variation of ∞ tracks the area integral vanish. GS artificial satellites RT boundary value problems MINIVAR orbit determination . space stations conformal mapping USE minimum variance orbit . . Mir space station finite element method manned spacecraft determination ∞ surfaces Mir space station Soviet spacecraft Minkowski space minimax technique Feynman diagrams . Mir space station approximation light-cone expansion stations curve fitting probability theory . space stations differential games space-time functions Mir space station game theory Granat satellite greedy algorithms International Space Station Minnesota operations research Kvant modules GS nations . United States Priroda module research space bases saddle points . . Minnesota space laboratories minimization space station modules minor circle turning flight USE optimization spacecraft docking turning flight GS U.S.S.R. space program minor circle turning flight minimum drag aircraft control GS dynamic characteristics Mira Ceti star maneuvers . drag USE Omicron Ceti star . minimum drag Minor Planet 1221 aircraft performance Mira variables USE Amor asteroid friction drag DEF Long-period (80 to over 600 days) variable stars of red giant or red supergiant type, Minor Planet 2060 minimum entropy method exemplified by the star Mira Ceti. Used for long USE Chiron Application of entropy in statistical meperiod variables. chanics long period variables minor planets entropy (statistics) celestial bodies USE asteroids . minimum entropy method . stars RT ∞ methodology . . late stars minorities . . . cool stars American Indians minimum variance orbit determination .... Mira variables anthropology MINIVAR orbit determination . . . . . Omicron Ceti star communities computation . . variable stars culture (social sciences) . . . Mira variables . . . . Omicron Ceti star . orbit calculation nations . . minimum variance orbit races (anthropology) determination asymptotic giant branch stars sociology mechanics (physics) carbon stars voting . classical mechanics M stars . . space mechanics red giant stars minority carriers ... orbital mechanics S stars charge carriers
. minority carriers GS .... minimum variance orbit stellar oscillations determination supergiant stars additives orbit determination Mirage 3 aircraft
UF Dassault Mirage 3 aircraft bipolar transistors . orbit calculation carrier injection . . minimum variance orbit carrier lifetime attack aircraft . fighter aircraft determination diffusion length statistical analysis RT electron mobility . . Mirage aircraft electrons mining . Mirage 3 aircraft holes (electron deficiencies) GS mining Dassault aircraft semiconductors (materials) . lunar mining . Mirage aircraft strip mining Mirage 3 aircraft MINOS computer anthracite jet aircraft data processing equipment clays . Mirage aircraft . computers dredging Mirage 3 aircraft ... MINOS computer energy policy monoplanes excavation . Mirage aircraft Minuteman ICBM exploitation . Mirage 3 aircraft Minuteman missiles mineral deposits single engine aircraft GS missiles mineral exploration . Mirage aircraft . ballistic missiles mines (excavations) . Mirage 3 aircraft . . intercontinental ballistic missiles underground structures supersonic aircraft ... Minuteman ICBM . Mirage aircraft . surface to surface missiles . . intercontinental ballistic missiles minitrack optical tracking system . . Mirage 3 aircraft USE minitrack system tailless aircraft Minuteman ICBM . Mirage 3 aircraft M-55 engine minitrack system DEF A satellite tracking system consisting M-56 engine Mirage aircraft of a field of separate antennas and associated M-57 engine DEF Collective term for a class of French multistage rocket vehicles receiving equipment interconnected so as to attack aircraft. form interferometers which track a transmitting solid propellant rocket engines attack aircraft beacon in the payload itself. Used for minitrack space weapons . fighter aircraft .. Mirage aircraft optical tracking system and MOTS (tracking Minuteman missiles . Mirage 3 aircraft system). UF minitrack optical tracking system USE Minuteman ICBM Dassault aircraft MOTS (tracking system)
Global Tracking Network Mirage aircraft . . Mirage 3 aircraft jet aircraft RT miosis eye (anatomy) ophthalmology optical tracking RT . Mirage aircraft satellite tracking

tetrad theory

. . Mirage 3 aircraft

space detection and tracking system

single engine aircraft . Mirage aircraft . Mirage 3 aircraft supersonic aircraft Mirage aircraft . . Mirage 3 aircraft Miranda DEF 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 ceased to operate the same year it was launched. GS artificial satellites . scientific satellites . . UK satellites . . . Miranda satellite
. synchronous satellites . Miranda satellite attitude control Miros system modulating retrodirective optics GS modulation . light modulation . Miros system optical measuring instruments ∞ systems mirror fusion DEF An open-ended configuration which traps low beta plasmas. It is realized by associating two identical magnetic mirrors having the same axis RT fusion reactors magnetic mirrors nuclear fusion plasma control tandem mirrors thermal barriers (plasma control) mirror point magnetic mirrors radiation belts mirrors GS mirrors . celescopes etalons Fresnel reflectors . honeycomb mirrors . magnetic mirrors . tandem mirrors . deformable mirrors . paraboloid mirrors . rotating mirrors segmented mirrors solettas Bragg reflectors Cassegrain optics circumsolar telescopes collimators heliostats optical coatings optical equipment optical materials optical resonators optics reflecting telescopes reflectors

solar collectors

solar reflectors specular reflection

telescopes

monoplanes

Mirage aircraft

. Mirage 3 aircraft

x ray optics

MIS (semiconductors)

metal insulator semiconductors GS

electronic equipment . solid state devices

. . semiconductor devices

. MIS (semiconductors) semiconductors (materials)

MIS (semiconductors)

RT SIS (semiconductors)

misalignment

(EXCLUDES PSYCHOLOGICAL DISORIENTATION) misorientation UF attitude (inclination) disorientation

position (location)

mischmetal

(added June 1998)

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 aluminum alloys and steels.

GS alloys

. rare earth alloys mischmetal alloying

aluminum alloys cathodic coatings

cerium desorption

electrode materials intermetallics steels

miscibility

solubility USF

miscibility gap

phase separation (materials) solubility

space processing

temperature dependence

USE field effect transistors

mismatch (electrical)

DEF Condition in which the impedance of a source does not match or equal the impedance of the connected load or transmission line.

electrical measurement impedance measurement matching

misorientation

USE misalignment

MISR (radiometry)

(added May 2007)

DEF A high resolution imaging spectroradiometer aboard the Terra spacecraft that measures the Earth's brightness in 4 spectral bands at 9 different look angles in order to increase the understanding of the impacts of different types of atmospheric particles and clouds on global climate. Launched in August 1999.

Multi-angle Imaging Spectroradiometer

GS measuring instruments

. radiation measuring instruments

. . actinometers . . . radiometers

. . . spectroradiometers

..... MISR (radiometry) . satellite-borne instruments

. MISR (radiometry)

aerosols

albedo

clouds (meteorology) data products

Earth atmosphere Earth Observing System (EOS)

reflectance remote sensing satellite imagery satellite observation Terra spacecraft terrestrial radiation

miss distance

GS distance

miss distance accuracy

air to surface missiles

missile antennas

GS antennas

. missile antennas missile components

missile antennas aircraft antennas directional antennas

microwave antennas

missile bodies

missile cases GS missile components

missile bodies

airframes axisymmetric bodies blunt bodies

∞ bodies

cases (containers) finned bodies rocket engine cases slender bodies streamlined bodies

missile cases

USE missile bodies

missile components

GS missile components . missile antennas

. missile bodies

RT ∞ components

engines fins nose cones warheads wings

missile configurations

missile configurations Sandpiper target missile

aerodynamic configurations aircraft configurations

∞ configurations

hammerhead configuration launch vehicle configurations

missiles

multiengine vehicles Patriot missile

propulsion system configurations

rocket engines rocket vehicles

missile construction

USE missile structures

missile control

UF missile guidance missile stabilization

actuators analog computers

attitude control automatic control automatic flight control beam rider guidance

∞ control directional control

flight control ground based control homing

laser guidance lateral control longitudinal control

missiles

proportional navigation radar homing missiles

radio control remote control rocket engine control spacecraft control star trackers thrust vector control

visual control launching sites bending vibration MX missile breathing vibration missile defense ∞ storage flutter (SYSTEMS DESIGNED TO PROTECT MISSILES AGAINST ATTACK) SN linear vibration ∞ missile simulators random vibration antimissile defense (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN self induced vibration antimissile missiles supersonic flutter antiradiation missiles torsional vibration computerized simulation ballistic missile decovs transonic flutter flight simulators ∞ defense mathematical models defense industry missiles defense program missiles simulators hardening (systems) DEF Any objects thrown, dropped, fired, training simulators military technology launched, or otherwise projected with the purwind tunnel models missiles pose of striking a target. optical countermeasures GS missiles missile stabilization reentry decoys . air slew missiles USE missile control Safeguard system . air to air missiles stabilization weapons delivery . . Falcon missile . . Matra missile missile storage RT ground support equipment missile design Sidewinder missiles RT aerospace engineering . . Sparrow missiles mobile missile launchers aircraft design Sparrow 2 missile propellant storage computer aided design . . . Sparrow 3 missile storage . air to surface missiles . . Bullpup missiles ∞ design underground storage ∞ development engine design Condor missile missile structures flight tests . . Harpoon missile . . Hound Dog missile . . Maverick missiles missile construction airframes UF functional design specifications RT Magnus effect structures reliability quail missile tail assemblies structural design Shrike missile systems engineering . Antelope missile missile systems . antiaircraft missiles GS weapon systems missile detection . . BOMARC missiles . missile systems detection . . Nike X systems . . Safeguard system ... BOMARC A missile . missile detection BOMARC B missile early warning systems Falcon missile aerospace systems electronic warfare Mauler missile beam rider guidance identifying Nike-Ajax missile mobile missile launchers target acquisition Nike-Hercules missile radar homing missiles target recognition Redeye missile ∞ systems SIAM missiles missile engine cases . . Sidewinder missiles missile tests USE rocket engine cases . . tartar missile RT captive tests . . terrier missile engine tests missile guidance . antimissile missiles flight tests USE missile control . . Mauler missile fuel tests . . Nike-Zeus missile ground tests missile launchers Spartan missile missiles launchers . . Sprint missile prelaunch tests . missile launchers . antiradiation missiles propellant tests . mobile missile launchers . antiship missiles stability tests ballistic missile submarines . ballistic missiles static tests catapults . . field army ballistic missiles test firing ground support equipment . . intercontinental ballistic missiles test vehicles gun launchers ... Atlas ICBM launch vehicles . Atlas D ICBM wind tunnel stability tests launching . . . . Atlas E ICBM launching sites Atlas F ICBM missile tracking missiles ... Minuteman ICBM GS tracking (position) rocket launchers . missile tracking MX missile sea launching ... Titan ICBM infrared tracking weapon systems . . . . Titan 1 ICBM laser target designators . Titan 2 ICBM polystation doppler tracking system missile ranges range and range rate tracking . . intermediate range ballistic missiles (EXCLUDES DISTANCE OF MISSILE SN space detection and tracking system ... Blue Streak missile TRAVEL) ranges (facilities) spacecraft tracking Jupiter missile tracking networks ... polaris missiles . test ranges . . missile ranges tracking stations .... Polaris A1 missile test facilities Polaris A2 missile missile trajectories .... Polaris A3 missile . test ranges . missile ranges . . Pershing missile GS trajectories . missile trajectories Poseidon missiles ballistic ranges short range ballistic missiles downrange ascent trajectories hypersonic test apparatus ballistic trajectories Skybolt missile missiles Cobra Dane (radar) Subroc missile descent trajectories . . V-2 missile range safety flight mechanics Blue Steel missile reentry range . Bumblebee project flight paths impact prediction Corvus missile missile signatures signatures parabolic flight . Osprey missile GS reentry trajectories missile signatures precision guided projectiles spinning unguided rocket trajectory . radar homing missiles detection . ramjet missiles signature analysis underwater trajectories . . Navaho missile target recognition . supersonic low altitude missile

missile vibration

GS vibration

. structural vibration

missile vibration

Sandpiper target missile

. surface to air missiles

SS-11 missile

missile silos

UF RT silos (missile storage)

buildings

	Blue Goose missile		rocket catapults	GS	programs
1	BOMARC missiles		rocket engines		. NASA programs
	BOMARC A missile		rocket propellants	DT	. Mission to Planet Earth
	BOMARC B missile		rockets	RT	climate change
(	Chaparral missile	~	SCRAM		Earth Observing System (EOS)
	Hawk missile		spacecraft launching spin stabilization		geophysics
	Mauler missile		stage separation	~	global warming missions
	Nike missiles		supersonic combustion ramjet		remote sensing
	Nike-Ajax missile		engines		scientific visualization
	Nike-Hercules missile		supersonic flight		one man viou and a second
	Nike-Zeus missile		terminal ballistics	∞ missio	าร
	Patriot missile		test vehicles	SN	(USE OF A MORE SPECIFIC TERM IS
	Redeye missile		torpedoes		RECOMMENDED CONSULT THE TERMS
	Sprint missile		trajectories	RT	LISTED BELOW) aborted missions
	Talos missile		transportation		asteroid missions
	artar missile	~	vehicles		Astro missions (STS)
	errier missile ırface to surface missiles		warheads		Cassini mission
	antitank missiles		weapon systems		Cluster Mission
	Shillelagh missiles		weapons		Comet Rendezvous Asteroid Flyby
	tow missiles	000	winged vehicles		Mission
	Corporal missile	miccino	mass (astrophysics)		Earth-Venus trajectories
	cruise missiles		A problem related to a cluster of galax-		expeditions
	Navaho missile		nich the mass derived from the dynami-		flyby missions
	Tomahawk missiles		lity of its member galaxies, the dynami-		Galileo spacecraft
f	leet ballistic missiles		s, is substantially larger than the mass		Grand Tours
	Polaris A1 missile		d by the mass-to-luminosity ratio of the		Heat Capacity Mapping Mission
	Polaris A2 missile		arts of the galaxies, the visible mass.		Landsat follow-on missions
	Polaris A3 missile		cosmology		long duration space flight Mariner Jupiter-Saturn flyby
	Poseidon missiles		. missing mass (astrophysics)		Mariner Jupiter-Uranus flyby
	Subroc missile		mass		Mars missions
	ntercontinental ballistic missiles		. missing mass (astrophysics)		mission planning
	Atlas ICBM	RT	astronomy		Mission to Planet Earth
	. Atlas D ICBM		astrophysics		planning
	. Atlas E ICBM . Atlas F ICBM		dark matter		programs
	Minuteman ICBM		dynamic stability		project planning
	MX missile		galactic clusters		projects
	Titan ICBM		galactic halos		Rosetta mission
	. Titan 1 ICBM		galactic structure		SOHO Mission
	. Titan 2 ICBM		large-scale structure of the universe mass distribution		Solar Maximum Mission
	ntermediate range ballistic missiles		mass to light ratios		Solar Maximum Mission-A
	Blue Streak missile		massive compact halo objects		space flight
	Jupiter missile		virial theorem		space missions
	polaris missiles		weakly interacting massive particles		Space Shuttle missions
	. Polaris A1 missile		meanly interacting massive parables		targets
	. Polaris A2 missile	mission	adaptive wings		Ulysses mission
	. Polaris A3 missile	GS	airfoils		Voyager 1977 mission
	_ance missile		. wings	Mississ	inni
	Mace missiles		mission adaptive wings	GS	nations
	Pershing missile	RT	adaptive control		. United States
	Regulus missile		F-111 aircraft		Mississippi
	sergeant missiles		gust alleviators	RT	Gulf of Mexico
	short range ballistic missiles		variable geometry structures		
	supersonic low altitude missile V-1 missile		variable sweep wings		ippi Delta (LA)
	nderwater to surface missiles		wing camber	GS	landforms
	Subroc missile		wing profiles		. deltas
	munition	mission	planning		. Mississippi Delta (LA)
	imissile defense	GS	planning	RT	Louisiana
	iship warfare	ao	. mission planning		rivers
	llery	RT	budgeting	Miccico	ippi River (US)
	ent propulsion systems		commerce lab	GS	rivers
aux	riliary propulsion		critical path method	0.0	. Mississippi River (US)
	mbs (ordnance)		estimating	RT	drainage patterns
	ctromagnetic missiles		forecasting		Earth resources
	nt test vehicles		lessons learned		floods
	ht vehicles		management		resources
	und support equipment		management planning		river basins
	dance (motion)	000	missions		-
	ning devices		observation scheduling	Missou	
	personic flight	000	operations	GS	nations
	endiary ammunition		operations research		. United States
	nch vehicles		payload integration	ОТ	Missouri
	nching sites sile configurations	~	plans	KI	Missouri River (US)
	sile control		predictions prelaunch summaries		St Louis-Kansas City Corridor (MO)
	sile defense		programs	Missou	ri River (US)
	sile launchers		project management	GS	rivers
	sile ranges		scheduling	40	. Missouri River (US)
	sile simulators		Ulysses mission	RT	lowa
	sile tests		•		Kansas
	Itiengine vehicles	Mission	to Planet Earth		Missouri
Nik	e X systems	(adde	ed April 1995)		Montana
	clear weapons		A NASA initated program that uses		Nebraska
	sma sheaths		ace and ground based measurement		North Dakota
	pulsion		to provide the scientific basis for under-		river basins
	ntry		global change.		South Dakota
ree	ntry vehicles	UF	MTPE		United States

### Missouri River Basin (US)

	valleys	RT	admixtures		atmospheric stratification
Miccou	ri River Basin (US)		aeration		boundary layers
GS	landforms		aerosols		convection
do	. structural basins		agitation		Ekman layer
	river basins		baffles blowers		jet mixing flow laminar mixing
	Missouri River Basin (US)		carburetors		∞ layers
RT	rivers		coalescing		mixing
• • • •	watersheds		contactors		mixing length flow theory
			odiffusers		shear layers
mist			dispersion		turbulent boundary layer
SN	(ATMOSPHERIC WATER)		feeders		turbulent mixing
DEF	Liquid, usually water in the form of		grinding mills		two fluid models
	s suspended in the atmosphere at or		mixing		
	e surface of the Earth; small water drop-		mixtures	mixing	length flow theory
	iting or falling, approaching the form of		paddles	GS	flow theory
	d sometimes distinguished from fog as		plows		. mixing length flow theory
	nore transparent or as having particles		plungers		kinetic theory
	bly moving downward.		separators		. transport theory
GS	particles		shakers		mixing length flow theory
ОТ	. mist		sprayers	RT	mixing layers (fluids)
RT	aerosols		stirring		shear flow
	dispersions		tumbling motion	۰	∞ theories
	fog				turbulence models
	fog dispersal haze	mixing			turbulent flow
	haze detection	GS	mixing		turbulent mixing
	precipitation (meteorology)		. colloiding		vorticity transport hypothesis
	precipitation (meteorology)		. compounding		
mistuni	ing (turbomachinery)		. dissolving	mixing	
	ed July 1991)		. homogenizing	`	led September 1993)
RT	rotating disks		. laminar mixing	GS	dimensionless numbers . mixing ratios
	o rotor blades		. premixing		ratios
	rotor blades (turbomachinery)		. signal mixing		. mass ratios
	rotors		. suspending (mixing)		mixing ratios
	tuning	DT	. turbulent mixing	RT	atmospheric composition
	turbomachine blades	RT	aeration	111	atmospheric moisture
	vibration		agitation		gas mixtures
			blowing chokes		gaseous diffusion
mitocho	ondria		diffusion		humidity
GS	organelles		dilution		mixing
	. mitochondria		grinding (comminution)		moisture content
RT	cells (biology)		jet mixing flow		water vapor
	cytology		liquid injection		
!!.			metal powder	mixture	es
mitosis			mixers	UF	blends
GS	cytogenesis		mixing layers (fluids)	GS	mixtures
рт	. mitosis		mixing ratios		. admixtures
RT	cell division		mixtures		. binary mixtures
	cells (biology) chromosome aberrations		premixed flames		binary fluids
	chromosomes	0	separation		eutectics
	cytology		shaking		eutectic alloys
	cytology		spraying		. dispersions
	mutations		swirling		colloids
	physiology		tangling		aerosols
	reproduction (biology)		trapped vortices		fog
	roproduction (blology)		turbulence		colloidal propellants
mitra			vortices		emulsions
RT	fungi				photographic emulsions
	plants (botany)	mixing			nuclear emulsions
		GS	circuits		liquid-gas mixtures
MIUS		DT	. mixing circuits		aerosols fog
USE	Modular Integrated Utility System	RT	frequency converters		plastisols
malace et	aw.etele		frequency synthesizers heterodyning		smoke
mixed o					. polymer blends
GS	crystals		preamplifiers		. sialon
DT	. mixed crystals	mixing o	denth		. slurries
RT	powder metallurgy		mixing height		. solid suspensions
	sintering	OOL	mixing neight		. solutions
mixed fl	low	mixing	height		aqueous solutions
USE	multiphase flow		The heights of the layer through which		gas mixtures
			osphere is well mixed. The height will		air
mixed o	oxides		h diurnal, seasonal, and regional varia-		alveolar air
DEF	Mixture of oxides, particularly of radio-	tions. U	sed for mixing depth.		compressed air
active m		UF	mixing depth		expired air
GS	chalcogenides	RT	air pollution		high temperature air
	. oxides		atmospheric circulation		liquid air
	metal oxides		convection		detonable gas mixtures
	mixed oxides		convection currents		photographic emulsions
	BSCCO superconductors		vertical air currents		nuclear emulsions
	YBCO superconductors		wind (meteorology)		solid solutions
RT	high temperature superconductors		zonal flow (meteorology)	RT	alloys
	nuclear fuels		levere (fluide)		azeotropes
	plutonium oxides		layers (fluids)	۰	∞ combination
	strontium oxides		ed September 1988)		composite materials
	uranium oxides		Fluid layers in which multicomponent		composition (property)
mivere		mixing o			dissolved gases
mixers SN	(EXCLUDES MIXING CIRCUITS)	R1	advection atmospheric boundary laver		eutectic composites formulations

	ingredients		diffusivity		mathematical models
	mixers		drift rate		optimal control
	mixing		Hall effect		self alignment
	paste (consistency)		kinetic theory		systems simulation
	solubility		portable equipment		
			transport properties	models	
	eteorology)	14001	'D (	GS	models
	ed September 2000)		D (vapor deposition)		. aircraft models
USE	Madden-Julian Oscillation	USE	metalorganic chemical vapor		. astronomical models
/// 1	iology neway plant		deposition		density wave model
	iclear power plant				stellar models
GS	electric power plants		response		. atmospheric models
	. nuclear power plants ML-1 nuclear power plant	UF	•		Atmospheric General Circulation
		GS	responses		Models
	nuclear electric power generation	DT	. modal response		. reference atmospheres
	. nuclear power plants	RT	, ,		. breadboard models
DT .	ML-1 nuclear power plant power plants		stroking tests		. climate models
nı ∝	power plants	Modes	omp II computer		. digital elevation models
ИLA		GS	data processing equipment		. dynamic models
	multispectral linear arrays	ao	. computers		. electroweak model
002	manapoonar mioar arrayo		digital computers		. environment models
имн (с	hemistry)		Modcomp II computer		. Gutenberg zone
	ed February 2001)		Modeomp ii computer		. hydrology models
	monomethylhydrazines	Modec	omp IV computer		. Lighthill gas model
	,,	GS	data processing equipment		. mathematical models
<i>MMS</i>		ao	. computers		analog simulation
USE	multimission modular spacecraft		digital computers		BGK model
			Modcomp IV computer		biological models (mathematics)
nnemo	nics		Modeomp IV computer		digital simulation
RT	memory	∞ mode			Mandelstam representation
	nomenclatures	SN	(USE OF A MORE SPECIFIC TERM IS		Petri nets
	symbolic programming	OIV	RECOMMENDEDCONSULT THE TERMS		Thomas-Fermi model
	symbols		LISTED BELOW)		turbulence models
	-,	RT			Baldwin-Lomax turbulence model
MNOS			mode (statistics)		k-epsilon turbulence model
USE	metal-nitride-oxide-silicon		modes		k-omega turbulence model
			· · · · ·		Veneziano model
nobile	communication systems		(statistics)		. nuclear models
DEF	Any configuration of mobile or trans-	RT	9		. ocean models
ortable	voice and data communication equip-		distribution moments		. quark models
nent wh	nich allows for communication between		failure modes		quark parton model
combina	tions of mobile/fixed points with or with-		mean		. scale models
out the a	aid of satellites.		median (statistics)		. semispan models
GS	mobile communication systems		∞ mode		. spacecraft models
	. land mobile satellite service		modes		. standard model (particle physics)
RT	communication satellites		moments		. static models
	Iridium network		quality control		. three dimensional models
	MSAT	mada	a a un lin a		. two dimensional models
	radio communication		coupling		. vector dominance model
	Rayleigh fading	USE	coupled modes		. wind tunnel models
		modo	of vibration		powered models . animal models
nobile	lounges		vibration mode		. multiscale models
RT	airfield surface movements	OOL	Vibration mode		
	airports	mode :	shanes	DT	knockout mice
	ground handling		modal response	RT	analogs
~	lounges	002	modul response		dummies layouts
		mode	transformers		
	missile launchers	GS	transducers		pilot plants replicas
GS	launchers	0.0	. mode transformers		simulators
	. missile launchers		transformers		test facilities
	. mobile missile launchers		. mode transformers		lest facilities
RT	ballistic missile submarines	RT		modem	e
	missile storage		propagation modes	UF	modulators-demodulators
	missile systems		transmission lines	GS	demodulators
	weapon systems		vibration mode	0.0	. modems
	averanting facility		waveguide tuners		modulators
	quarantine facility		ŭ		. modems
RT	aerospace medicine	model	reference adaptive control	RT	data transmission
	evacuating (transportation)	DEF	This deals with three parameters: an		peripheral equipment (computers)
~	facilities	ideal a	daptive control system whose response is		phase demodulators
	medical equipment	agreed	to be optimum; computer simulation in		phase modulation
	medical services	which	both the model system and the actual		pulse amplitude modulation
	physical examinations	system	are subjected to the same stimulus; and		pulse communication
	physiological tests	parame	eters of the actual system which are ad-		pulse duration modulation
Mohilo 9	Servicing System (ISS)	justed	to minimize the difference in the outputs		pulse frequency modulation
	ed September 2001)	of the	model and the actual system. Used for		pulse modulation
	Space Station Mobile Servicing	MRAC	(systems).		pulse position modulation
JUL	System	UF	MRAC (systems)		•
	3,0.0	GS	automatic control		te Resolution Imaging
nobility	1		. adaptive control	Spectro	radiometer
SN	(EXCLUDES CONSIDERATIONS OF		model reference adaptive control		ed June 2003)
	MANNED AND UNMANNED CRAFT)	RT	,	USE	MODIS (radiometry)
GS	mobility		autonomy		
	atomic mobilities		∞ control		tion (energy absorption)
	. carrier mobility		control theory	GS	energy absorption
	electron mobility		cybernetics		moderation (energy absorption)
	hole mobility		dynamic control		thermalization (energy absorption)
	. ionic mobility		feedback control		neutron thermalization
RT ∝	conductivity		feedforward control	RT ∝	∘ absorption

limiters (fusion reactors)

#### moderators

DEF Materials that have a high cross section for slowing down fast neutrons with a minimum of absorption, e.g., heavy water, beryllium, used in reactor cores.

beryllium

blankets (fusion reactors)

graphite

heavy water limiters (fusion reactors)

moderation (energy absorption)

neutron absorbers

nuclear reactors reactor materials

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

 $RT \, \infty \, mode$ 

mode (statistics)

tearing modes (plasmas)

### modes (standing waves)

GS modes

. modes (standing waves)

RT uncoupled modes

vibration

#### MODFETS

DEF 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.

modulation doped fets

GS 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

USE revisions

modified embedded atom method

(added February 1998)

USE embedded atom method

#### MODIS (radiometry)

(added June 2003)

DEF 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

GS

. 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.

MIUS

air conditioning

communities

electric power plants

heating potable water

sewage treatment

∞ systems utilities

waste disposal

#### modular ratios

mechanical properties

modular ratios

ratios

modular ratios

composite materials stress ratio RT

structural analysis

structural engineering

#### modularity

architecture (computers)

avionics

computer programs electronic modules systems engineering

#### modulated continuous radiation

continuous radiation

modulated continuous radiation

electromagnetic radiation . modulated continuous radiation

coherent electromagnetic radiation phase deviation

∞ radiation

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 UF

#### GS 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

ultrasonic light modulation . phase modulation

. . FM/PM (modulation)

. . . 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 doned 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.

GS

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

UF MTF GS functions (mathematics)

. transfer functions

. modulation transfer function figure of merit imaging techniques

optical measurement

optical transfer function

∞ performance system effectiveness

## systems analysis

modulators DEF Devices to effect the process of modu-

#### lation.

modulators

. 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 Schlieren photography remote regions . micromodules MOL (orbital laboratories) local scientific survey module Moire fringes USE manned orbital laboratories payload assist module DEF The bands which appear in the Moire . power modules (STS) effect. . service modules RT diffraction patterns USF lunar mobile laboratories . . Multi-Purpose Logistics Modules fringe multiplication . spacecraft docking modules interference grating ∞ mold . spacecraft modules Moire effects (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) . . command modules SN stress analysis . . command service modules stress concentration . . landing modules Aspergillus . . . lunar landing modules fungi . . . . Lunar Module Moire interferometry
DEF The use of intersecting families of molds . . . . . Apollo lunar experiment rhizopus module curves as instruments for making precise mearust funai .....LSSM surement, the study of indices of refractions, etc. . . . . Lunar Module 5 moldavite by utilizing the interference patterns. . . . . . Lunar Module 7 rocks GS interferometry GS Altair Lunar Lander Moire interferometry . igneous rocks ... Mars Excursion Module . . obsidian RT diffraction patterns .. SIM holographic interferometry . moldavite . space station modules Moire effects glass Columbus module Cupola Module meteorites soils moisture Destiny Laboratory Module Kibo Japanese Experiment Module GS moisture molding materials atmospheric moisture Kvant modules molding materials soil moisture Multi-Purpose Logistics Modules sheet molding compounds humidity Priroda module binders (materials) hygral properties Service Module (ISS) casting meteorological parameters Unity connecting module clays meteorology Zarya control module cores water circuits injection molding water vapor compartments ∞ materials ∞ components molds instrument packages plasters moisture content space tugs plastics UF dampness spare parts resin transfer molding water content sand casting wetness sands modulus of elasticity composition (property) tenite DEF The ratio of stress (nominal) to corresponding strain below the proportional limit of a . concentration (composition) moisture content Moldova . . atmospheric moisture material. It is expressed in force per unit area. (added September 1994) atmospheric composition Used for compliance (elasticity), elastic modunations chemical properties lus, and Young modulus. Moldova humidity compliance (elasticity) RT Europe hydrothermal stress analysis elastic modulus hygroscopicity Young modulus molds lysimeters mechanical properties (EXCLUDES ORGANISMS) mixing ratios . elastic properties casting soil moisture ... modulus of elasticity castinas water . . dynamic modulus of elasticity dies water vapor anelasticity flat patterns bending foundries Hookes law moisture detectors ingots hydroelasticity USE moisture meters injection molding nanoindentation mandrels Poisson ratio melting moisture meters proportional limit ∞ mold moisture detectors πigidity molding materials measuring instruments shear properties organic materials stiffness . moisture meters ∞ patterns . . hygrometers stress-strain diagrams preforms . . psychrometers pressing (forming) chemical analysis punches **MOEMS** resin transfer molding (added December 2005) humidity measurement sheet molding compounds microoptoelectromechanical tablets systems templates moisture resistance RT caulking Mohawk aircraft molecular absorption coatings USE **OV-1** aircraft GS energy absorption hydrophobicity . radiation absorption hydrothermal stress analysis molecular absorption hygroscopicity Mohr circles RT ∞ absorption USE fracture mechanics porosity atmospheric attenuation ∞ resistance Beer law sealing Moire effects electromagnetic absorption waterproofing beat frequencies light transmission weatherproofing birefringence diffraction molecular beam epitaxy ∞ effects Mojave Desert (CA) DEF Ultrahigh vacuum technique for growing very thin epitaxial layers of semiconductor fringe multiplication GS land interference grating . deserts crystals.

. Mojave Desert (CA)

arid lands

California

desertification

∞ methodology

Moire fringes
Moire interferometry

photoelastic analysis

GS growth

. crystal growth

... molecular beam epitaxy

. . épitaxy

RT atomic layer epitaxy diffusion coefficient GS fluid flow indium aluminum arsenides diffusion waves . gas flow . . molecular flow dissociation molecular beams gaseous diffusion ... slip flow GS beams (radiation) . . transition flow gaseous self-diffusion . particle beams particle diffusion BGK model . . neutral beams self diffusion (solid state) boundary layer transition . . molecular beams surface diffusion continuum flow RT atomic beams Knudsen flow atomic clocks low density flow molecular dissociation free molecular flow USE dissociation rarefied gas dynamics ion beams transpiration molecules molecular dynamics molecular gases rarefied gas dynamics (added January 1994) RT computerized simulation GS gases molecular biology . molecular gases crystal structure life sciences ∞ dynamics . . polar gases . molecular biology embedded atom method . . polyatomic gases . . diatomic gases biochemistry microstructure molecular interactions RT association reactions ∞ biology gas dynamics eukaryotes ∞ molecular physics monatomic gases gene expression molecular properties nonpolar gases genes molecular trajectories rarefied gases physiochemistry physical chemistry prokaryotes real gases statistical mechanics proteome self assembly molecular interactions molecular electronics GS particle interactions GS electrophysics . molecular interactions molecular bonds molecular electronics USE chemical bonds . molecular collisions adatoms association reactions DTL integrated circuits molecular chains configuration interaction electronics RT ∞ aliphatic compounds dissociation integrated circuits chains ∞ interactions Langmuir-Blodgett films crystal lattices intermolecular forces large scale integration macromolecules internuclear properties linear integrated circuits monomers interstellar chemistry medium scale integration netting (materials/structures) ionic reactions microelectronics Lennard-Jones potential microminiaturization molecular clouds mass flow miniature electronic equipment DEF Thickest and densest interstellar molecular dynamics monomolecular films clouds consisting mainly of molecular hydrogen ∞ molecular physics pi-electrons but also a high concentration of dust grains. molecular properties semiconductor devices RT astronomical models transport theory thin films ∞ clouds TTL integrated circuits cosmic dust molecular ions very large scale integration diffuse interstellar bands GS ions . molecular ions galactic halos molecular energy levels . . formyl ions hydrogen clouds GS level (quantity) . . hydronium ions infrared cirrus (astronomy) . energy levels . vanadyl radical interstellar chemistry . . molecular energy levels interstellar gas RT amino radical . . . intermolecular forces interstellar masers electron affinity . . . rotational states ∞ molecular physics interstellar matter . . . vibrational states positive ions laboratory astrophysics molecular properties methylidyne . molecular energy levels molecular orbitals star formation . . intermolecular forces GS molecular properties Submillimeter Wave Astronomy . . rotational states molecular orbitals Satellite . vibrational states chemical energy . molecular orbitals molecular clusters ∞ energy (added January 1994) wave functions energy of formation . molecular orbitals molecular clusters excimers quantum chemistry . micelles free energy self consistent fields agglomeration heat of solution atomic clusters internal energy molecular oscillations chemisorption ∞ nuclear energy GS molecular properties clumps molecular oscillations ∞ clusters molecular excitation oscillations fullerenes GS excitation . molecular oscillations metal clusters . molecular excitation argon lasers nanoclusters atomic excitations carbon dioxide lasers nucleation energy levels carbon monoxide lasers ionization gas lasers molecular collisions particle collisions oscillator strengths GS collisions photoexcitation . molecular collisions rotational spectra molecular oscillators particle interactions rotational states GS oscillators . molecular interactions vibrational states molecular oscillators . molecular collisions lasers atomic collisions molecular flow masers BGK model (FLOW WITH KNUDSEN NUMBERS oscillator strengths ∞ interactions GREATER THAN 0. 01--FOR SPECIFIC FLOWS IN THIS RANGE USE NARROWER TERMS--FOR DUCTED MOLECULAR FLOW USE KNUDSEN two-wavelength lasers particle collisions ultraviolet lasers rigid rotors (plasma physics) MOLECULAR FLOW USE KNOUSEN FLOW)
DEF The flow of gas through a duct under conditions such that the mean free path is greater than the largest dimension of a trans-∞ molecular physics molecular diffusion

verse section of the duct

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

internuclear properties

SN

GS

RT

diffusion

. molecular diffusion

atmospheric diffusion

Mayer problem molecular dynamics molecular interactions molecular ions monatomic molecules

∞ physics ∞ science

### molecular properties

(added April 2004)

DEF Fundamental information regarding molecules such as weight, structure, rotation, vibration, spectra, etc.

#### GS molecular properties

. molecular energy levels

. . intermolecular forces

. . rotational states

. . vibrational states

. molecular orbitals

. molecular oscillations

. molecular relaxation

. molecular rotation

. molecular spectra

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

RT plasma pumping pump seals

### molecular relaxation

chemical relaxation UF vibrational relaxation

GS 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

GS spectroscopy

molecular spectroscopy

. Raman spectroscopy

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

∞ theories

### molecular trajectories

GS trajectories

molecular trajectories

gas flow molecular dynamics

#### molecular weight

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

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

RT atoms

buckminsterfullerene chemical bonds

∞ chemical compounds

ions

low molecular weights molecular beams molecular structure molecular weight

#### moles

GS animals

. vertebrates

. . mammals

... moles

#### Moliere formula

USE cosmic ray showers secondary cosmic rays spatial distribution

#### Mollier diagram

UF enthalpy-entropy diagrams

GS charts

. graphs (charts)

diagrams
. Mollier diagram

RT 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)

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 RT molten carbonate fuel cells

#### molten salt nuclear reactors

MSRE reactors

nuclear reactors

. molten salt nuclear reactors

RT ∞ reactors		isotopes	mass	
molten salts	DT	molybdenum isotopes		stribution t distribution
DEF High temperature inorganic salt or mix-	RT	molybdenum		moments
tures of salts used for thermal energy storage,	molybo	denum oxides		noments
heat exchangers, high power electric batteries,	GS	chalcogenides		derivatives
heat treatment of alloys, etc.  RT halides		. oxides	stress a	•
RT halides halites		metal oxides molybdenum oxides	structur torque	ai strain
inorganic compounds		molybdenum compounds		moments
nitrides		. molybdenum oxides	, 3	
salt baths	ماداه مد	damiim ailfidaa	momentum	
∞ salts sodium chlorides		denum sulfides chalcogenides	DEF Quantit GS <b>mome</b> n	y of motion.
Social Chlorides	ao	. sulfides		r momentum
molting		inorganic sulfides	•	erse momentum
RT phenology		molybdenum sulfides		I mechanics
shedding		molybdenum disulfides sulfur compounds		lie wavelengths
molybdates		. sulfides	∞ dynamio momen	
GS molybdenum compounds		inorganic sulfides	∞ motion	.5
molybdates		molybdenum sulfides	motion	aftereffects
lead molybdates		molybdenum disulfides	pendulu	
molybdenum	MOM (	semiconductors)	turning	ilignt
GS chemical elements	UF		momentum ener	qv
molybdenum	GS	electronic equipment	USE kinetic	energy
metals		. solid state devices		
. refractory metals <b>molybdenum</b>		semiconductor devices MOM (semiconductors)	momentum theo RT conserv	ory ration laws
. transition metals		semiconductors (materials)		second law
molybdenum		. MOM (semiconductors)	∞ theories	;
refractory materials	RT	ion implantation		
. refractory metals <b>molybdenum</b>	momor	nt distribution	momentum trar RT ∞ dynami	
RT molybdenum isotopes	GS	distribution (property)	energy	
		. moment distribution		id interactions
molybdenum alloys	RT	angular distribution		namic ram effect
GS alloys . heat resistant alloys		force distribution	kinetic t	
refractory metal alloys		influence coefficient loading moments	kinetics Prandtl	number
molybdenum alloys		loads (forces)	transfer	
Rene 41		mass distribution		· ·
Rene 63		method of moments	Monaco	
Rene 77 Rene 95		moments moments of inertia	GS nations . <b>Mona</b>	co
refractory materials		pressure distribution	RT Europe	
refractory metal alloys		static loads	•	
molybdenum alloys		stress concentration	monatomic gas	
Rene 41 Rene 63		structural analysis	UF atomic GS gases	gases
Rene 77		structural design criteria	3	tomic gases
Rene 95	momer	nts		an-Enskog theory
RT Hastelloy (trademark)	GS	moments		ar gases
mulberry (alloy)		bending moments     dipole moments	rare gas real gas	
Permalloys (trademark) stainless steels		electric moments	rear gas	163
314.11.1000 3103.10		magnetic moments	monatomic mol	ecules
molybdenum carbides		. distribution moments	GS molecul	
GS carbon compounds . carbides		mean	. <b>mona</b> t RT atoms	tomic molecules
molybdenum carbides		orthogonality standard deviation		al bonds
		. loading moments		al compounds
molybdenum compounds		. moments of inertia	ions	
GS molybdenum compounds . molybdates		. stability derivatives pitching moments		ecular weights ar physics
lead molybdates		rolling moments		ar structure
. molybdenum disulfides		yawing moments		ar weight
. molybdenum oxides		. torque	positive	ions
RT ∞ chemical compounds	RT	method of moments		1-
<ul><li></li></ul>		mode (statistics) moment distribution	<b>monaural signa</b> RT audio e	<b>is</b> quipment
∞ metal compounds		momentum		equencies
molybdenum disulfides		skewness		perception
GS chalcogenides		torsion		signals
. sulfides inorganic sulfides		variance (statistics)	loudspe microph	
molybdenum sulfides	momer	nts of inertia		ransmission
molybdenum disulfides	UF	inertia moments		
molybdenum compounds	GS	moments	monazite sands	
. molybdenum disulfides	RT	. moments of inertia		orus compounds
sulfur compounds . sulfides	n i	angular momentum center of gravity	. phosp	nates azite sands
inorganic sulfides		center of gravity	sedime	
molybdenum sulfides		centroids	. sands	
molybdenum disulfides		equations of motion		azite sands
molybdenum isotopes		Euler equations of motion inertia	soils . sands	
GS chemical elements		inertia principle		azite sands
. nuclides		Mach inertia principle	RT mineral	5

sedimentary rocks	. monochromators	RT energy absorption films
Monel (trademark)	RT comparators duochromators	∞ films integrated optics
GS alloys	goniometers	∞ layers
. nickel alloys	light sources	molecular electronics
Monel (trademark)	monochromatic radiation	self assembly
Monge-Ampere equation	optical equipment optical measuring instruments	surface layers surfactants
GS algebra	photogoniometers	thin layer chromatography
. nonlinear equations	spectrophotometers	, 01,
Monge-Ampere equation analysis (mathematics)		monoplanes
. real variables	monocoque structures RT ∞ cylinders	GS monoplanes
differential equations	shells (structural forms)	. A-1 aircraft
partial differential equations	stressed-skin structures	. A-2 aircraft . A-3 aircraft
elliptic differential equations Monge-Ampere equation	∞ structures	. A-4 aircraft
nonlinear equations	monocrystals	. A-5 aircraft
Monge-Ampere equation	USE single crystals	. A-6 aircraft
RT boundary value problems ∞ equations	monocular vision	. A-7 aircraft . A-37 aircraft
∞ equations	GS vision	. AN-22 aircraft
Mongolia	. monocular vision	. AN-24 aircraft
GS nations	RT human factors engineering	. Argosy MK-1 aircraft
. <b>Mongolia</b> RT Asia	motion perception	. AVRO 707 aircraft . B-26 aircraft
TT 76id	perception space perception	. B-47 aircraft
monitors	opass passages.	. B-50 aircraft
RT aircraft instruments analyzers	monocytes	. B-52 aircraft
conical scanning	(added August 2004) DEF Large, phagocytic mononuclear leuko-	. B-57 aircraft . B-58 aircraft
counters	cytes produced in the vertebrate bone marrow	. B-66 aircraft
data recorders	and released into the blood; contain a large, oval	. B-70 aircraft
∞ detectors display devices	or somewhat indented nucleus surrounded by	. BAC 111 aircraft
environmental monitoring	voluminous cytoplasm and numerous or- ganelles.	. Beechcraft 18 aircraft . Boeing 707 aircraft
gas detectors	GS cells (biology)	. Boeing 720 aircraft
helmet mounted displays	. blood cells	. Boeing 733 aircraft
in-flight monitoring ∞ instruments	leukocytes	. Boeing 737 aircraft
∞ measurement	<b>monocytes</b> RT biocompatibility	. Boeing 757 aircraft . Boeing 767 aircraft
measuring instruments	blood cell count	. Breguet 940 aircraft
optical scanners	bone marrow	. Breguet 941 aircraft
pollution monitoring radiation measuring instruments	cytology	. Breguet 1150 aircraft . Buccaneer aircraft
scanning	erythrocytes immune systems	. C-2 aircraft
warning	minute dystems	. C-33 aircraft
warning systems	monoethanolamine (MEA)	. C-35 aircraft
monkeys	GS organic compounds . amines	. C-46 aircraft . C-47 aircraft
GS animals	monoethanolamine (MEA)	. C-54 aircraft
. vertebrates		. C-118 aircraft
mammals primates	monoids	. C-121 aircraft
monkeys	GS algebra . group theory	. C-123 aircraft . C-124 aircraft
The state of the s	homomorphisms	. C-130 aircraft
monochromatic radiation SN (LIMITED TO ELECTROMAGNETIC	monoids	. C-131 aircraft
RADIATION)	monolithic circuits	. C-133 aircraft . C-135 aircraft
GS electromagnetic radiation monochromatic radiation	USE integrated circuits	. C-140 aircraft
RT beams (radiation)		. C-141 aircraft
Brillouin effect	monomers	. C-160 aircraft
coherent electromagnetic radiation	DEF Low molecular weight substances con- sisting of molecules capable of reacting with like	. Canberra aircraft . Cessna 172 aircraft
coherent light ∞ filters	or unlike molecules to form a polymer.	. Cessna 205 aircraft
gamma rays	RT dibasic compounds	. Cessna 210 aircraft
infrared radiation	dimers	. Cessna 402B aircraft
ionizing radiation	molecular chains oligomers	. Cessna L-19 aircraft . CL-41 aircraft
light (visible radiation) long wave radiation	oxetane polymers	. CL-44 aircraft
monochromatization	∞ polymers	. Comet 4 aircraft
monochromators	prepolymers trimers	. CV-340 aircraft . CV-440 aircraft
polarized electromagnetic radiation polarized light	tillleis	. CV-880 aircraft
∞ radiation	monomethylhydrazines	. CV-990 aircraft
radio waves	(added February 2001)	. D-558 aircraft
short wave radiation	UF <i>MMH (chemistry)</i> GS hydrazines	. DC 3 aircraft . DC 7 aircraft
ultraviolet radiation x rays	. methylhydrazine	. DC 8 aircraft
x luy5	monomethylhydrazines	. DH 112 aircraft
monochromatization	RT dimethylhydrazines	. DH 115 aircraft
UF interference monochromatization RT monochromatic radiation	hydrazine engines hypergolic rocket propellants	. DH 121 aircraft . DH 125 aircraft
particle energy	liquid rocket propellants	. DHC 2 aircraft
polarization (waves)		. DHC 4 aircraft
manaahramata:-	monomolecular films	. DHC 5 aircraft
monochromators GS measuring instruments	UF Langmuir monolayers GS thin films	. DO-27 aircraft . DO-28 aircraft
. monochromators	. monomolecular films	. DO-31 aircraft
radiation sources	Langmuir-Blodgett films	. Electra aircraft

### monopole antennas

F 0 : "		
. F-2 aircraft	RT aerodynamic configurations	image tubes
. F-4 aircraft	∞ aircraft	secondary emission
. F-5 aircraft	airfoils	∞ test equipment
. F-8 aircraft	biplanes	
	cargo aircraft	monostable multivibrators
. F-9 aircraft		
. F-17 aircraft	gliders	GS circuits
. F-27 aircraft	∞ low wing aircraft	. multivibrators
	seaplanes	monostable multivibrators
. F-28 transport aircraft	tailless aircraft	
. F-84 aircraft		monotectic alloys
. F-86 aircraft	water takeoff and landing aircraft	
	wing planforms	DEF Metallic composite materials having a
. F-89 aircraft	wing profiles	dispersed phase of solidification products dis-
. F-94 aircraft	∞ winged vehicles	tributed within a matrix. The dispersed compo-
. F-100 aircraft	** Williged Verlielee	nents can be selected to provide characteristics
. F-102 aircraft		
	monopole antennas	such as superconductivity or lubricity.
. F-104 aircraft	UF spike antennas	GS alloys
. F-105 aircraft	GS antennas	monotectic alloys
. F-106 aircraft	. omnidirectional antennas	RT composite materials
. FD 2 aircraft		
	monopole antennas	∞ matrices
. G-1 aircraft	whip antennas	metal matrix composites
. G-91 aircraft	RT antenna design	metals
. G-95/4 aircraft	dipole antennas	
. G-222 aircraft	·	
	loop antennas	monotone functions
. GA-5 aircraft	monopoles	GS functions (mathematics)
. H-126 aircraft	∞ spikes	monotone functions
. HFB-320 aircraft	ортоо	RT analysis (mathematics)
. HP-115 aircraft		
	monopoles	calculus
. HS-748 aircraft	GS monopoles	real variables
. IL-14 aircraft	. magnetic monopoles	
. IL-62 aircraft		monotony
. jet provost aircraft	RT ∞ dipoles	
	monopole antennas	RT boredom
. Jindivik target aircraft	multipoles	lethargy
. L-29 jet trainer	∞ poles	sensory deprivation
. Lockheed model 18 aircraft	poloo	
. MH-262 aircraft		
	monopropellants	monsoons
. Mirage aircraft	GS propellants	DEF Seasonal winds caused primarily by
Mirage 3 aircraft	. rocket propellants	the greater annual variation in air temperature
. Boeing 717 aircraft		over large land surfaces compared to ocean
	liquid rocket propellants	
. Mystere 20 aircraft	monopropellants	surfaces though other factors like land-relief are
. Nord 1500 aircraft	RT aircraft fuels	important.
. OV-1 aircraft	chemical fuels	GS wind (meteorology)
. OV-10 aircraft		. monsoons
	gaseous rocket propellants	
. P-3 aircraft	gelled rocket propellants	RT annual variations
. P-51 aircraft	metal propellants	atmospheric circulation
. P-166 aircraft	plastic propellants	ground wind
	plastic propertarits	
P-308 aircraft	propellant decomposition	Madden- Iulian ()ecillation
. P-308 aircraft	propellant decomposition	Madden-Julian Oscillation
. P-1127 aircraft	propellant decomposition slurry propellants	Madden-Julian Oscillation precipitation (meteorology)
	slurry propellants	
. P-1127 aircraft . P-1154 aircraft		precipitation (meteorology)
. P-1127 aircraft . P-1154 aircraft . PD-808 aircraft	slurry propellants solid rocket propellants	precipitation (meteorology) sea breeze
. P-1127 aircraft . P-1154 aircraft . PD-808 aircraft . S-2 aircraft	slurry propellants solid rocket propellants monopulse antennas	precipitation (meteorology) sea breeze  Montana
. P-1127 aircraft . P-1154 aircraft . PD-808 aircraft . S-2 aircraft . S-3 aircraft	slurry propellants solid rocket propellants monopulse antennas GS antennas	precipitation (meteorology) sea breeze Montana GS nations
. P-1127 aircraft . P-1154 aircraft . PD-808 aircraft . S-2 aircraft	slurry propellants solid rocket propellants monopulse antennas	precipitation (meteorology) sea breeze  Montana
. P-1127 aircraft . P-1154 aircraft . PD-808 aircraft . S-2 aircraft . S-3 aircraft	slurry propellants solid rocket propellants monopulse antennas GS antennas monopulse antennas	precipitation (meteorology) sea breeze Montana GS nations
. P-1127 aircraft . P-1154 aircraft . PD-808 aircraft . S-2 aircraft . S-3 aircraft . Saab 105 aircraft . SC-1 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas monopulse antennas RT directional antennas	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana
. P-1127 aircraft . P-1154 aircraft . PD-808 aircraft . S-2 aircraft . S-3 aircraft . Saab 105 aircraft . SC-1 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas monopulse antennas RT directional antennas phased arrays	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY)
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft Saab 105 aircraft SC-1 aircraft SC-5 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas monopulse antennas RT directional antennas	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US)
. P-1127 aircraft . P-1154 aircraft . PD-808 aircraft . S-2 aircraft . S-3 aircraft . Saab 105 aircraft . SC-1 aircraft . SC-5 aircraft . SC-7 aircraft . SC-7 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas monopulse antennas RT directional antennas phased arrays	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America)
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft Saab 105 aircraft SC-1 aircraft SC-5 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas monopulse antennas HT directional antennas phased arrays waveguide antennas	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America)
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft Saab 105 aircraft SC-1 aircraft SC-5 aircraft SC-7 aircraft SC-7 aircraft SC-7 aircraft SC-7 aircraft SC-7 aircraft SC-7 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas monopulse antennas RT directional antennas phased arrays waveguide antennas monopulse radar	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park
. P-1127 aircraft . P-1154 aircraft . PD-808 aircraft . S-2 aircraft . S-3 aircraft . Saab 105 aircraft . SC-1 aircraft . SC-5 aircraft . SC-7 aircraft . Sc-7 aircraft . Scimitar aircraft . SE-210 aircraft . Shackleton bomber	slurry propellants solid rocket propellants  monopulse antennas GS antennas monopulse antennas RT directional antennas phased arrays waveguide antennas  monopulse radar GS radar	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America)
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft S-3 aircraft S-4 aircraft S-7 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas monopulse antennas AT directional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)
. P-1127 aircraft . P-1154 aircraft . PD-808 aircraft . S-2 aircraft . S-3 aircraft . Saab 105 aircraft . SC-1 aircraft . SC-5 aircraft . SC-7 aircraft . Sc-7 aircraft . Scimitar aircraft . SE-210 aircraft . Shackleton bomber	slurry propellants solid rocket propellants  monopulse antennas GS antennas monopulse antennas RT directional antennas phased arrays waveguide antennas  monopulse radar GS radar	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft Saab 105 aircraft SC-1 aircraft SC-5 aircraft SC-7 aircraft SC-7 aircraft Scimitar aircraft SE-210 aircraft Shackleton bomber T-2 aircraft T-28 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas monopulse antennas AT directional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar pulse Doppler radar	precipitation (meteorology) sea breeze  Montana GS nations . United States . Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method
. P-1127 aircraft . P-1154 aircraft . PD-808 aircraft . S-2 aircraft . S-3 aircraft . Saab 105 aircraft . SC-1 aircraft . SC-5 aircraft . SC-7 aircraft . SC-7 aircraft . Scimitar aircraft . SE-210 aircraft . Shackleton bomber . T-2 aircraft . T-28 aircraft . T-33 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas monopulse antennas RT directional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar pulse Doppler radar monopulse Doppler radar monopulse radar	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics)
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft Sab 105 aircraft SC-1 aircraft SC-5 aircraft SC-7 aircraft SC-7 aircraft SC-10 aircraft SC-10 aircraft T-210 aircraft SHackleton bomber T-2 aircraft T-28 aircraft T-37 aircraft T-37 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas . monopulse antennas PT directional antennas phased arrays waveguide antennas  monopulse radar GS radar . Doppler radar . pulse Doppler radar . monopulse radar . monopulse radar . pulse radar . pulse radar	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft Saab 105 aircraft SC-1 aircraft SC-7 aircraft SC-7 aircraft SC-7 aircraft SC-7 aircraft Sc-10 aircraft SE-210 aircraft Shackleton bomber T-2 aircraft T-28 aircraft T-33 aircraft T-37 aircraft T-38 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas monopulse antennas AT directional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar pulse Doppler radar pulse radar pulse Doppler radar pulse Doppler radar	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft Saab 105 aircraft SC-1 aircraft SC-5 aircraft SC-7 aircraft Scimitar aircraft SE-210 aircraft Shackleton bomber T-2 aircraft T-28 aircraft T-33 aircraft T-37 aircraft T-38 aircraft T-39 aircraft T-39 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas . monopulse antennas PT directional antennas phased arrays waveguide antennas  monopulse radar GS radar . Doppler radar . pulse Doppler radar . pulse radar	precipitation (meteorology) sea breeze  Montana GS nations . United States . Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis . Monte Carlo method RT diffusion theory
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft Saab 105 aircraft SC-1 aircraft SC-7 aircraft SC-7 aircraft SC-7 aircraft SC-7 aircraft Sc-10 aircraft SE-210 aircraft Shackleton bomber T-2 aircraft T-28 aircraft T-33 aircraft T-37 aircraft T-38 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas monopulse antennas AT directional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar pulse Doppler radar pulse radar pulse Doppler radar pulse Doppler radar	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft S-3 aircraft SC-1 aircraft SC-5 aircraft SC-7 aircraft Scimitar aircraft SE-210 aircraft Shackleton bomber T-2 aircraft T-28 aircraft T-37 aircraft T-38 aircraft T-38 aircraft T-38 aircraft T-39 aircraft T-39 aircraft T-31 aircraft T-39 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas . monopulse antennas PT directional antennas phased arrays waveguide antennas  monopulse radar GS radar . Doppler radar . pulse Doppler radar . pulse radar . pulse radar . pulse radar . pulse poppler radar . pulse poppler radar . pulse poppler radar . monopulse radar	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method RT diffusion theory expectancy hypothesis
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft Saab 105 aircraft SC-5 aircraft SC-7 aircraft Sc-7 aircraft Sc-7 aircraft Sc-7 aircraft Sc-7 aircraft Sig-210 aircraft SHackleton bomber T-2 aircraft T-28 aircraft T-38 aircraft T-39 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas I monopulse antennas RT directional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar I pulse Poppler radar I pulse radar I pulse Doppler radar I Doppler radar Uplexers	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method RT diffusion theory expectancy hypothesis game theory
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft Sab 105 aircraft SC-1 aircraft SC-7 aircraft SC-7 aircraft SC-7 aircraft SC-7 aircraft SC-10 aircraft SE-210 aircraft SHackleton bomber T-2 aircraft T-28 aircraft T-33 aircraft T-39 aircraft T-39 aircraft T-39 aircraft T-3-1 aircraft T-3-1 aircraft TS-11 aircraft TS-12 aircraft TS-13 aircraft TS-14 aircraft TS-15-14 aircraft TS-16 aircraft TS-17 aircraft TS-18 aircraft TS-19 aircraft TS-19 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas Improvement directional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar Inpulse Tadar Inpulse radar Inpulse radar Inpulse radar Inpulse radar Inpulse radar Inquipexers Inquire radar	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method diffusion theory expectancy hypothesis game theory Markov chains
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft S-3 aircraft S-1 aircraft SC-1 aircraft SC-5 aircraft SC-7 aircraft SC-7 aircraft Scimitar aircraft SE-210 aircraft SHackleton bomber T-2 aircraft T-28 aircraft T-33 aircraft T-37 aircraft T-39 aircraft T-39 aircraft TS-11 aircraft TS-11 aircraft TS-2 aircraft TS-14 aircraft TS-2 aircraft TU-104 aircraft TU-124 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas I monopulse antennas RT directional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar I pulse Poppler radar I pulse radar I pulse Doppler radar I Doppler radar Uplexers	precipitation (meteorology) sea breeze  Montana GS nations . United States . Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis . Monte Carlo method RT diffusion theory expectancy hypothesis game theory Markov chains mathematical models
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft Sab 105 aircraft SC-1 aircraft SC-7 aircraft SC-7 aircraft SC-7 aircraft SC-7 aircraft SC-10 aircraft SE-210 aircraft SHackleton bomber T-2 aircraft T-28 aircraft T-33 aircraft T-39 aircraft T-39 aircraft T-39 aircraft T-3-1 aircraft T-3-1 aircraft TS-11 aircraft TS-12 aircraft TS-13 aircraft TS-14 aircraft TS-15-14 aircraft TS-16 aircraft TS-17 aircraft TS-18 aircraft TS-19 aircraft TS-19 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas Improvement directional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar Inpulse Tadar Inpulse radar Inpulse radar Inpulse radar Inpulse radar Inpulse radar Inquipexers Inquire radar	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method diffusion theory expectancy hypothesis game theory Markov chains
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft SC-1 aircraft SC-5 aircraft SC-7 aircraft Scimitar aircraft SE-210 aircraft SE-210 aircraft T-28 aircraft T-28 aircraft T-37 aircraft T-37 aircraft T-37 aircraft T-38 aircraft T-39 aircraft T-39 aircraft TS-11 aircraft TSR-2 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-134 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas . monopulse antennas PT directional antennas phased arrays waveguide antennas  monopulse radar GS radar . Doppler radar . pulse Doppler radar . pulse Poppler radar . pulse radar . pulse poppler radar . pulse poppler radar . pulse poppler radar . pulse poppler radar . monopulse radar . monopulse radar . monopulse radar aduplexers radar tracking tracking radar	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method RT diffusion theory expectancy hypothesis game theory Markov chains mathematical models ∞ methodology
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft S-3 aircraft SC-5 aircraft SC-5 aircraft SC-7 aircraft Sc-7 aircraft Scimitar aircraft SE-210 aircraft Shackleton bomber T-2 aircraft T-28 aircraft T-37 aircraft T-38 aircraft T-38 aircraft T-39 aircraft T-39 aircraft T-104 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-134 aircraft TU-134 aircraft TU-144 aircraft TU-144 aircraft TU-144 aircraft TU-144 aircraft TU-2 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas I directional antennas phased arrays waveguide antennas  monopulse radar GS radar I Doppler radar I Dulse Doppler radar I pulse radar I pulse radar I pulse radar I pulse poppler radar I pulse poppler radar I pulse poppler radar I pulse radar I pulse poppler radar I pulse radar I monopulse radar I racking tracking tracking radar  monosaccharides	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method RT diffusion theory expectancy hypothesis game theory Markov chains mathematical models ∞ methodology probability theory
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft Saab 105 aircraft SC-1 aircraft SC-5 aircraft SC-7 aircraft SC-7 aircraft SC-7 aircraft SE-210 aircraft SHackleton bomber T-2 aircraft T-28 aircraft T-33 aircraft T-37 aircraft T-39 aircraft T-39 aircraft T-S-11 aircraft TSR-2 aircraft TU-124 aircraft TU-124 aircraft TU-134 aircraft TU-104 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas I monopulse antennas RT directional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar I pulse Doppler radar I pulse Doppler radar I pulse Poppler radar I pulse Poppler radar I pulse Poppler radar I pulse Tadar I pulse Doppler radar I pulse Doppler radar I pulse Tadar I pulse Doppler radar I monopulse radar RT Doppler radar duplexers radar tracking tracking radar  monosaccharides GS organic compounds	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method RT diffusion theory expectancy hypothesis game theory Markov chains mathematical models ∞ methodology probability theory random processes
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft S-3 aircraft SC-5 aircraft SC-5 aircraft SC-7 aircraft Sc-7 aircraft Scimitar aircraft SE-210 aircraft Shackleton bomber T-2 aircraft T-28 aircraft T-37 aircraft T-38 aircraft T-38 aircraft T-39 aircraft T-39 aircraft T-104 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-134 aircraft TU-134 aircraft TU-144 aircraft TU-144 aircraft TU-144 aircraft TU-144 aircraft TU-2 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas I directional antennas phased arrays waveguide antennas  monopulse radar GS radar I Doppler radar I Dulse Doppler radar I pulse radar I pulse radar I pulse radar I pulse poppler radar I pulse poppler radar I pulse poppler radar I pulse radar I pulse poppler radar I pulse radar I monopulse radar I racking tracking tracking radar  monosaccharides	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method RT diffusion theory expectancy hypothesis game theory Markov chains mathematical models ∞ methodology probability theory
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft Saab 105 aircraft SC-1 aircraft SC-5 aircraft SC-7 aircraft SC-7 aircraft SC-7 aircraft SE-210 aircraft SHackleton bomber T-2 aircraft T-28 aircraft T-33 aircraft T-37 aircraft T-39 aircraft T-39 aircraft T-S-11 aircraft TSR-2 aircraft TU-124 aircraft TU-124 aircraft TU-134 aircraft TU-104 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas I monopulse antennas RT directional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar I pulse Doppler radar I pulse Doppler radar I pulse Poppler radar I pulse Poppler radar I pulse Poppler radar I pulse Tadar I pulse Doppler radar I pulse Doppler radar I pulse Tadar I pulse Doppler radar I monopulse radar RT Doppler radar duplexers radar tracking tracking radar  monosaccharides GS organic compounds	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method RT diffusion theory expectancy hypothesis game theory Markov chains mathematical models ∞ methodology probability theory random processes
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft S-3 aircraft SC-1 aircraft SC-5 aircraft SC-7 aircraft Scimitar aircraft SE-210 aircraft Shackleton bomber T-2 aircraft T-28 aircraft T-33 aircraft T-37 aircraft T-39 aircraft T-39 aircraft TS-11 aircraft TU-104 aircraft TU-134 aircraft TU-104 aircraft U-104 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas . monopulse antennas RT directional antennas phased arrays waveguide antennas  monopulse radar GS radar . Doppler radar . pulse Doppler radar . pulse Doppler radar . pulse Poppler radar . pulse radar . monopulse	precipitation (meteorology) sea breeze  Montana GS nations . United States . Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method  RT diffusion theory expectancy hypothesis game theory Markov chains mathematical models ∞ methodology probability theory random processes random walk renormalization group methods
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft SC-1 aircraft SC-5 aircraft SC-7 aircraft Scimitar aircraft SE-210 aircraft SE-210 aircraft SHackleton bomber T-2 aircraft T-28 aircraft T-33 aircraft T-37 aircraft T-38 aircraft T-38 aircraft T-39 aircraft TS-11 aircraft TS-2 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-134 aircraft TU-134 aircraft U-1  aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas . monopulse antennas PT directional antennas phased arrays waveguide antennas  monopulse radar GS radar . Doppler radar . pulse Doppler radar . pulse Doppler radar . pulse Poppler radar . pulse poppler radar . monopulse radar . cuplexers radar tracking tracking tracking tracking compounds . carbohydrates . sugars . monosaccharides	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method diffusion theory expectancy hypothesis game theory Markov chains mathematical models ∞ methodology probability theory random processes random walk renormalization group methods simulation
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft S-3 aircraft SC-5 aircraft SC-5 aircraft SC-7 aircraft SC-7 aircraft SE-210 aircraft SE-210 aircraft T-28 aircraft T-38 aircraft T-38 aircraft T-39 aircraft T-31 aircraft T-39 airc	slurry propellants solid rocket propellants  monopulse antennas GS antennas Immonopulse antennas RT directional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar pulse Doppler radar pulse Poppler radar pulse poppler radar pulse poppler radar pulse poppler radar radar pulse poppler radar monopulse radar radar radar radar monopulse radar radar auplexers radar tracking tracking tracking tracking radar  monosaccharides GS organic compounds carbohydrates sugars monosaccharides nmonosaccharides nmonosaccharides nmonosaccharides	precipitation (meteorology) sea breeze  Montana  GS nations . United States Montana  RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method  RT diffusion theory expectancy hypothesis game theory Markov chains mathematical models ∞ methodology probability theory random processes random walk renormalization group methods simulation statistical analysis
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft SC-1 aircraft SC-5 aircraft SC-7 aircraft Scimitar aircraft SE-210 aircraft SE-210 aircraft SHackleton bomber T-2 aircraft T-28 aircraft T-33 aircraft T-37 aircraft T-38 aircraft T-38 aircraft T-39 aircraft TS-11 aircraft TS-2 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-134 aircraft TU-134 aircraft U-1  aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas . monopulse antennas PT directional antennas phased arrays waveguide antennas  monopulse radar GS radar . Doppler radar . pulse Doppler radar . pulse Doppler radar . pulse Poppler radar . pulse poppler radar . monopulse radar . cuplexers radar tracking tracking tracking tracking compounds . carbohydrates . sugars . monosaccharides	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method diffusion theory expectancy hypothesis game theory Markov chains mathematical models ∞ methodology probability theory random processes random walk renormalization group methods simulation
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft S-3 aircraft SC-5 aircraft SC-5 aircraft SC-7 aircraft SC-7 aircraft SE-210 aircraft SE-210 aircraft T-28 aircraft T-38 aircraft T-38 aircraft T-39 aircraft T-31 aircraft T-39 airc	slurry propellants solid rocket propellants  monopulse antennas GS antennas Immonopulse antennas RT directional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar pulse Doppler radar pulse Doppler radar pulse Poppler radar pulse Poppler radar pulse Poppler radar pulse Poppler radar pulse Doppler radar radar pulse Poppler radar radar sumonopulse radar radar radar radar sumonopulse radar duplexers radar tracking tracking radar  monosaccharides GS organic compounds carbohydrates sugars monosaccharides GS umonosaccharides GS galactose	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method RT diffusion theory expectancy hypothesis game theory Markov chains mathematical models ∞ methodology probability theory random processes random walk renormalization group methods simulation statistical analysis
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft S-3 aircraft S-1 aircraft SC-1 aircraft SC-5 aircraft SC-7 aircraft Scimitar aircraft SE-210 aircraft Shackleton bomber T-2 aircraft T-38 aircraft T-38 aircraft T-37 aircraft T-39 aircraft TS-11 aircraft TS-12 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-104 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas Immonopulse antennas AT directional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar pulse Doppler radar pulse Doppler radar pulse Doppler radar pulse Poppler radar pulse Poppler radar pulse radar pulse radar pulse radar radar radar pulse radar sumonopulse radar radar radar tracking tracking tracking tracking tracking tracking tracking tracking sorganic compounds carbohydrates sugars monosaccharides sugars monosaccharides sugalactose glucose	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method RT diffusion theory expectancy hypothesis game theory Markov chains mathematical models  methodology probability theory random processes random walk renormalization group methods simulation statistical analysis stochastic processes
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft SC-1 aircraft SC-5 aircraft SC-7 aircraft Scimitar aircraft SE-210 aircraft SE-210 aircraft SE-210 aircraft T-28 aircraft T-28 aircraft T-37 aircraft T-37 aircraft T-38 aircraft T-39 aircraft T-39 aircraft TS-11 aircraft TU-104 aircraft TU-104 aircraft TU-134 aircraft TU-134 aircraft U-2 aircraft U-1 aircraft U-1 aircraft U-1 aircraft U-1 aircraft U-10 aircraft U-10 aircraft U-10 aircraft U-10 aircraft Valiant aircraft Victor MK-1 aircraft Viscount aircraft VJ-101 aircraft VJ-2 aircraft VJ-101 aircraft VJ-2 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas Immonopulse antennas AT directional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar pulse Doppler radar pulse Doppler radar pulse Poppler radar pulse Poppler radar pulse poppler radar pulse poppler radar radar pulse radar pulse radar apulse radar radar compoulse radar apulse radar compoulse radar apulse radar compounds radar anduplexers radar tracking tracking tracking tracking radar  monosaccharides GS organic compounds carbohydrates carbohydrates sugars monosaccharides hexoses aplactose glactose pentose	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method RT diffusion theory expectancy hypothesis game theory Markov chains mathematical models  methodology probability theory random processes random walk renormalization group methods simulation statistical analysis stochastic processes transport theory
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft S-3 aircraft SC-5 aircraft SC-5 aircraft SC-7 aircraft SC-7 aircraft Simitar aircraft SE-210 aircraft Shackleton bomber T-2 aircraft T-28 aircraft T-33 aircraft T-39 aircraft T-39 aircraft TS-11 aircraft TS-2 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-134 aircraft TU-10 aircraft TU-10 aircraft VI-10 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas Indirectional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar pulse Doppler radar pulse Doppler radar pulse poppler radar pulse poppler radar pulse poppler radar pulse poppler radar pulse radar pulse radar pulse radar spulse radar radar racking tracking	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method RT diffusion theory expectancy hypothesis game theory Markov chains mathematical models ∞ methodology probability theory random processes random walk renormalization group methods simulation statistical analysis stochastic processes transport theory  Monterey Bay (CA)
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft SC-1 aircraft SC-5 aircraft SC-7 aircraft Scimitar aircraft SE-210 aircraft SE-210 aircraft SE-210 aircraft T-28 aircraft T-28 aircraft T-37 aircraft T-37 aircraft T-38 aircraft T-39 aircraft T-39 aircraft TS-11 aircraft TU-104 aircraft TU-104 aircraft TU-134 aircraft TU-134 aircraft U-2 aircraft U-1 aircraft U-1 aircraft U-1 aircraft U-1 aircraft U-10 aircraft U-10 aircraft U-10 aircraft U-10 aircraft Valiant aircraft Victor MK-1 aircraft Viscount aircraft VJ-101 aircraft VJ-2 aircraft VJ-101 aircraft VJ-2 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas Immonopulse antennas AT directional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar pulse Doppler radar pulse Doppler radar pulse Poppler radar pulse Poppler radar pulse poppler radar pulse poppler radar radar pulse radar pulse radar apulse radar radar compoulse radar apulse radar compoulse radar apulse radar compounds radar anduplexers radar tracking tracking tracking tracking radar  monosaccharides GS organic compounds carbohydrates carbohydrates sugars monosaccharides hexoses aplactose glactose pentose	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method RT diffusion theory expectancy hypothesis game theory Markov chains mathematical models  methodology probability theory random processes random walk renormalization group methods simulation statistical analysis stochastic processes transport theory
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft Saab 105 aircraft SC-5 aircraft SC-7 aircraft SC-7 aircraft Sc-7 aircraft SE-210 aircraft SE-210 aircraft SE-210 aircraft T-28 aircraft T-33 aircraft T-33 aircraft T-39 aircraft T-39 aircraft T-39 aircraft TS-11 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-134 aircraft TU-10 aircraft VC-10 aircraft VI-10 aircraft VI-10 aircraft VI-10 aircraft VI-10 aircraft VI-10 aircraft VI-101 aircraft VI-2 aircraft VI-101 aircraft VI-101 aircraft VI-101 aircraft VI-2 aircraft VI-2 aircraft VI-2 aircraft VI-3 aircraft VI-3 aircraft VI-3 aircraft VI-3 aircraft VI-3 aircraft VI-3 aircraft VI-5 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas Indirectional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar pulse Doppler radar pulse Doppler radar pulse poppler radar pulse poppler radar pulse poppler radar pulse poppler radar pulse radar pulse radar pulse radar spulse radar radar racking tracking	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method RT diffusion theory expectancy hypothesis game theory Markov chains mathematical models  methodology probability theory random processes random walk renormalization group methods simulation statistical analysis stochastic processes transport theory  Monterey Bay (CA) GS bays (topographic features)
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft S-3 aircraft S-1 aircraft SC-1 aircraft SC-5 aircraft SC-5 aircraft SC-7 aircraft SE-210 aircraft SE-210 aircraft SE-210 aircraft T-28 aircraft T-28 aircraft T-33 aircraft T-33 aircraft T-39 aircraft T-39 aircraft TS-11 aircraft TS-12 aircraft TU-104 aircraft TU-134 aircraft TU-134 aircraft U-2 aircraft U-10 aircraft U-10 aircraft Victor MK-1 aircraft Viscount aircraft Viscount aircraft VJ-101 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas Indirectional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar pulse Doppler radar pulse Doppler radar pulse Poppler radar pulse Poppler radar pulse radar pulse radar pulse radar pulse radar radar pulse radar sumonopulse radar radar tracking tracking radar monosaccharides GS organic compounds carbohydrates sugars monosaccharides	precipitation (meteorology) sea breeze  Montana GS nations . United States . Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method RT diffusion theory expectancy hypothesis game theory Markov chains mathematical models  methodology probability theory random processes random walk renormalization group methods simulation statistical analysis stochastic processes transport theory  Monterey Bay (CA) GS bays (topographic features) . Monterey Bay (CA)
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft S-3 aircraft SC-1 aircraft SC-5 aircraft SC-7 aircraft Scimitar aircraft SE-210 aircraft Shackleton bomber T-2 aircraft T-28 aircraft T-37 aircraft T-37 aircraft T-39 aircraft T-39 aircraft TS-11 aircraft TU-104 aircraft TU-104 aircraft TU-134 aircraft TU-134 aircraft TU-10 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas Immonopulse antennas AT directional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar pulse Doppler radar pulse Doppler radar pulse Poppler radar pulse Poppler radar pulse Poppler radar pulse radar pulse radar pulse radar pulse radar raduplexers radar tracking tracking tracking tracking radar  monosaccharides GS organic compounds carbohydrates sugars monosaccharides glactose glactose pentose ribose ribose monoscopes	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method diffusion theory expectancy hypothesis game theory Markov chains mathematical models  methodology probability theory random processes random walk renormalization group methods simulation statistical analysis stochastic processes transport theory  Monterey Bay (CA) GS bays (topographic features) . Monterey Bay (CA) RT California
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft SC-1 aircraft SC-5 aircraft SC-7 aircraft Scimitar aircraft SE-210 aircraft SE-210 aircraft SE-210 aircraft SE-210 aircraft SHackleton bomber T-2 aircraft T-28 aircraft T-38 aircraft T-38 aircraft T-39 aircraft TS-11 aircraft TS-2 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-134 aircraft Vola aircraft X-1 aircraft X-2 aircraft X-3 aircraft X-14 aircraft X-21 aircraft X-21 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas Indirectional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar pulse Doppler radar pulse Doppler radar pulse Poppler radar pulse Poppler radar pulse radar pulse radar pulse radar pulse radar radar pulse radar sumonopulse radar radar tracking tracking radar monosaccharides GS organic compounds carbohydrates sugars monosaccharides	precipitation (meteorology) sea breeze  Montana GS nations . United States . Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method RT diffusion theory expectancy hypothesis game theory Markov chains mathematical models  methodology probability theory random processes random walk renormalization group methods simulation statistical analysis stochastic processes transport theory  Monterey Bay (CA) GS bays (topographic features) . Monterey Bay (CA)
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft S-3 aircraft SC-1 aircraft SC-5 aircraft SC-7 aircraft Scimitar aircraft SE-210 aircraft Shackleton bomber T-2 aircraft T-28 aircraft T-37 aircraft T-37 aircraft T-39 aircraft T-39 aircraft TS-11 aircraft TU-104 aircraft TU-104 aircraft TU-134 aircraft TU-134 aircraft TU-10 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas Immonopulse antennas AT directional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar pulse Doppler radar pulse Doppler radar pulse Poppler radar pulse Poppler radar pulse Poppler radar pulse radar pulse radar pulse radar pulse radar raduplexers radar tracking tracking tracking tracking radar  monosaccharides GS organic compounds carbohydrates sugars monosaccharides glactose glactose pentose ribose ribose monoscopes	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method diffusion theory expectancy hypothesis game theory Markov chains mathematical models  methodology probability theory random processes random walk renormalization group methods simulation statistical analysis stochastic processes transport theory  Monterey Bay (CA) GS bays (topographic features) . Monterey Bay (CA) RT California
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft S-3 aircraft SC-1 aircraft SC-5 aircraft SC-7 aircraft SC-7 aircraft SE-210 aircraft SE-210 aircraft SE-210 aircraft T-28 aircraft T-33 aircraft T-33 aircraft T-39 aircraft T-39 aircraft T-39 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-10 aircraft U-10 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas IT directional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar pulse Poppler radar pulse radar pulse radar sumonopulse radar radar sumonopulse radar monopulse radar sumonopulse radar	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method RT diffusion theory expectancy hypothesis game theory Markov chains mathematical models ∞ methodology probability theory random processes random walk renormalization group methods simulation statistical analysis stochastic processes transport theory  Monterey Bay (CA) GS bays (topographic features) Monterey Bay (CA) RT California Pacific Ocean
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft S-3 aircraft S-1 aircraft SC-1 aircraft SC-5 aircraft SC-5 aircraft SC-7 aircraft SE-210 aircraft SE-210 aircraft SHackleton bomber T-2 aircraft T-38 aircraft T-38 aircraft T-39 aircraft T-39 aircraft TS-11 aircraft TU-104 aircraft TU-124 aircraft U-10 aircraft U-10 aircraft U-10 aircraft Victor MK-1 aircraft Viscount aircraft X-1 aircraft X-1 aircraft X-1 aircraft X-1 aircraft X-10-10 10-10-10-10-10-10-10-10-10-10-10-	slurry propellants solid rocket propellants  monopulse antennas GS antennas Indirectional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar pulse Doppler radar pulse Doppler radar pulse Doppler radar pulse Poppler radar pulse Poppler radar pulse Poppler radar pulse radar pulse radar sumonopulse radar radar tacking radar monopulse radar duplexers radar tracking tracking tracking radar  monosaccharides GS organic compounds carbohydrates sugars monosaccharides sugars glactose glucose pentose mibose mibose vacuum tubes cathode ray tubes	precipitation (meteorology) sea breeze  Montana GS nations . United States . Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method RT diffusion theory expectancy hypothesis game theory Markov chains mathematical models  methodology probability theory random processes random walk renormalization group methods simulation statistical analysis stochastic processes transport theory  Monterey Bay (CA) GS bays (topographic features) . Monterey Bay (CA) RT California Pacific Ocean
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft S-3 aircraft SC-1 aircraft SC-5 aircraft SC-5 aircraft SC-7 aircraft Scimitar aircraft SE-210 aircraft Shackleton bomber T-2 aircraft T-38 aircraft T-38 aircraft T-39 aircraft T-39 aircraft TS-11 aircraft TU-104 aircraft TU-104 aircraft TU-134 aircraft TU-134 aircraft U-10 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas Indirectional antennas phased arrays waveguide antennas  monopulse radar GS radar Indirectional antennas Indirectional Indirection Indirectional Indirectional Indirection Indirectional Indirectional Indirection	precipitation (meteorology) sea breeze  Montana GS nations . United States . Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method RT diffusion theory expectancy hypothesis game theory Markov chains mathematical models ∞ methodology probability theory random processes random walk renormalization group methods simulation statistical analysis stochastic processes transport theory  Monterey Bay (CA) GS bays (topographic features) . Monterey Bay (CA) RT California Pacific Ocean  month DEF The period of the revolution of the
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft S-3 aircraft SC-1 aircraft SC-5 aircraft SC-7 aircraft Sc-7 aircraft Scimitar aircraft SE-210 aircraft SE-210 aircraft SE-210 aircraft T-28 aircraft T-28 aircraft T-37 aircraft T-37 aircraft T-38 aircraft T-39 aircraft TS-11 aircraft TS-11 aircraft TU-104 aircraft TU-104 aircraft TU-134 aircraft U-10 aircraft Volaircraft Volaircraft Volaircraft Volaircraft Volaircraft Volaircraft Volaircraft Volaircraft Volaircraft Vol-10 aircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas Indirectional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar pulse Doppler radar pulse Doppler radar pulse Doppler radar pulse Poppler radar pulse Poppler radar pulse Poppler radar pulse radar pulse radar sumonopulse radar radar tacking radar monopulse radar duplexers radar tracking tracking tracking radar  monosaccharides GS organic compounds carbohydrates sugars monosaccharides sugars glactose glucose pentose mibose mibose vacuum tubes cathode ray tubes	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method RT diffusion theory expectancy hypothesis game theory Markov chains mathematical models  methodology probability theory random processes random walk renormalization group methods simulation statistical analysis stochastic processes transport theory  Monterey Bay (CA) GS bays (topographic features) . Monterey Bay (CA) RT California Pacific Ocean  month DEF The period of the revolution of the Moon around the Earth. The month is desig-
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft S-3 aircraft SC-1 aircraft SC-5 aircraft SC-5 aircraft SC-7 aircraft Scimitar aircraft SE-210 aircraft Shackleton bomber T-2 aircraft T-38 aircraft T-38 aircraft T-39 aircraft T-39 aircraft TS-11 aircraft TU-104 aircraft TU-104 aircraft TU-134 aircraft TU-134 aircraft U-10 aircraft	slurry propellants  monopulse antennas GS antennas Immonopulse antennas AT directional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar pulse Doppler radar pulse Doppler radar pulse Doppler radar pulse Poppler radar pulse poppler radar pulse poppler radar radingers radar Doppler radar spulse radar spulse radar radingers radar tracking tracking tracking tracking tracking radar  monosaccharides GS organic compounds carbohydrates sugars monosaccharides sugars monosaccharides sugars monosaccharides sugars monosaccharides sugars monosaccharides sugars sugars monosaccharides sugars su	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method RT diffusion theory expectancy hypothesis game theory Markov chains mathematical models  methodology probability theory random processes random walk renormalization group methods simulation statistical analysis stochastic processes transport theory  Monterey Bay (CA) GS bays (topographic features) . Monterey Bay (CA) RT California Pacific Ocean  month DEF The period of the revolution of the Moon around the Earth. The month is desig-
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft S-3 aircraft SC-1 aircraft SC-5 aircraft SC-7 aircraft SC-7 aircraft SE-210 aircraft SE-210 aircraft SE-210 aircraft SHackleton bomber T-2 aircraft T-38 aircraft T-38 aircraft T-38 aircraft T-39 aircraft TS-11 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft U-10 aircraft U-10 aircraft U-10 aircraft Volaircraft	slurry propellants solid rocket propellants  monopulse antennas GS antennas IT directional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar pulse Poppler radar pulse radar pulse radar sumonopulse radar radar sumonopulse radar sumonosacharides sugars	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method RT diffusion theory expectancy hypothesis game theory Markov chains mathematical models ∞ methodology probability theory random processes random walk renormalization group methods simulation statistical analysis stochastic processes transport theory  Monterey Bay (CA) GS bays (topographic features) Monterey Bay (CA) RT California Pacific Ocean  month DEF The period of the revolution of the Moon around the Earth. The month is designated as sidereal, tropical, anomalistic, dracon-
P-1127 aircraft P-1154 aircraft PD-808 aircraft S-2 aircraft S-3 aircraft S-3 aircraft SC-1 aircraft SC-5 aircraft SC-7 aircraft Sc-7 aircraft Scimitar aircraft SE-210 aircraft SE-210 aircraft SE-210 aircraft T-28 aircraft T-28 aircraft T-37 aircraft T-37 aircraft T-38 aircraft T-39 aircraft TS-11 aircraft TS-11 aircraft TU-104 aircraft TU-104 aircraft TU-134 aircraft U-10 aircraft Volaircraft Volaircraft Volaircraft Volaircraft Volaircraft Volaircraft Volaircraft Volaircraft Volaircraft Vol-10 aircraft	slurry propellants  monopulse antennas GS antennas Immonopulse antennas AT directional antennas phased arrays waveguide antennas  monopulse radar GS radar Doppler radar pulse Doppler radar pulse Doppler radar pulse Doppler radar pulse Poppler radar pulse poppler radar pulse poppler radar radingers radar Doppler radar spulse radar spulse radar radingers radar tracking tracking tracking tracking tracking radar  monosaccharides GS organic compounds carbohydrates sugars monosaccharides sugars monosaccharides sugars monosaccharides sugars monosaccharides sugars monosaccharides sugars sugars monosaccharides sugars su	precipitation (meteorology) sea breeze  Montana GS nations . United States Montana RT Bighorn Mountains (MT-WY) Missouri River (US) Williston Basin (North America) Yellowstone National Park (ID-MT-WY)  Monte Carlo method GS analysis (mathematics) . numerical analysis Monte Carlo method RT diffusion theory expectancy hypothesis game theory Markov chains mathematical models  methodology probability theory random processes random walk renormalization group methods simulation statistical analysis stochastic processes transport theory  Monterey Bay (CA) GS bays (topographic features) . Monterey Bay (CA) RT California Pacific Ocean  month DEF The period of the revolution of the Moon around the Earth. The month is desig-

the perigee, the ascending node, of the sun. The sensory feedback RT solar system calendar month, which is a rough approximation of the synodical month. Used for lunation. moon-Earth trajectories MORI lunation GS trajectories manned orbital laboratories USE RT calendars . spacecraft trajectories morning
PT daytime . . lunar trajectories units of measurement . moon-Earth trajectories Apollo 5 flight monticellite sunrise Apollo 6 flight GS calcium compounds Apollo 7 flight monticellite Apollo 8 flight Apollo 10 flight Morocco magnesium compounds GS nations . monticellite Apollo 11 flight Morocco minerals Apollo 12 flight RT Africa . monticellite Apollo 13 flight silicon compounds Apollo 14 flight . silicates morphine Apollo 15 flight . monticellite GS bases (chemical) Apollo 16 flight olivine . alkaloids Apollo 17 flight . morphine circumlunar trajectories montmorillonite drugs Earth-Moon trajectories A group of monoclinic silicate clay min-. narcotics Goddard Trajectory Determination erals with widely varying compositions, and . morphine System characterized by swelling in water. nitrogen compounds . alkaloids lunar flight smectite mass drivers GS aluminum compounds . . morphine orbital mechanics . aluminum silicates organic compounds reentry trajectories . montmorillonite . cyclic compounds round trip trajectories clays . . heterocyclic compounds transfer orbits . montmorillonite . . . alkaloids minerals . . . . morphine . montmorillonite moonlets (added July 1989) GS celestial bodies silicon compounds morphological indexes . silicates GS ratios . . aluminum silicates moonlets . indexes (ratios) . . montmorillonite Jupiter rings natural satellites morphological indexes RT bentonite RT morphology planetary rings moods Saturn rings emotional factors RT Uranus rings morphology emotions GS morphology melatonin . crystal morphology moonquakes psychological effects geomorphology GS seismology psychological factors sensory feedback isomorphism moonquakes . lung morphology lunar geology . polymorphism lunar tides moon anatomy planetary quakes The natural satellite of the Earth. DEF biology differentiation (biology) selenology celestial bodies GS . natural satellites geology . moon moons histology ∞ mathematics Earth-Moon system RT natural satellites USE light sources morphological indexes lunar atmosphere shapes mooring lunar bases vestibules moorings lunar communication airports lunar composition anchors (fasteners) morphotropism lunar craters autonomous docking USE isomorphism lunar crust docking lunar dust fasteners lunar eclipses Morse code ∞ joining lunar environment materials handling RT ∞ codes lunar evolution communicating multiple docking adapters lunar exploration keying spacecraft docking lunar far side radio telegraphy lunar geology telecommunication lunar gravitation moorings lunar landing sites USE mooring Morse potential lunar limb RT diatomic molecules lunar luminescence MOPS (propulsion systems) kinetic theory lunar magnetic fields USE man operated propulsion systems potential energy lunar maps lunar occultation lunar orbits moraines mortality USE glacial drift lunar phases RT aging (biology) lunar photography death lunar rays expiration morale lunar shadow life span creativity RT lunar soil disciplining Mills ratio lunar temperature leadership lunar topography motivation mortars (material) selenography productivity selenology RT admixtures psychology terraforming bricks recreation cements ceramics moon illusion psychological effects concretes GS Morehouse comet . illusions celestial bodies grout

. comets

. . Morehouse comet

. moon illusion

RT optical illusion

masonry

plasters

	refractories		particle motion		space environment simulation
MOC (I	ananaa anaaaraft)		particle trajectories		test facilities
	apanese spacecraft) Japanese spacecraft		pitch (inclination) rotation	motion	stability
002	oupunoso opusos un		Saccadic eye movements		dynamic characteristics
	emiconductors)		solar orbits		. dynamic stability
USE	metal oxide semiconductors		spacecraft motion		motion stability aerodynamic stability
mosaics	5		spacecraft trajectories stellar motions		aircraft stability
RT	assemblies		swarming		hovering stability
	diffraction		teetering		attitude stability
	focal plane devices photographs		transit time translational motion		directional stability gyroscopic stability
	photographic		tumbling motion		lateral stability
Moscow			turbulence		longitudinal stability
GS	cities . Moscow		velocity		flow stability
RT	Russian Federation		vertical motion vertical motion simulators		boundary layer stability flame stability
	U.S.S.R.		vibration		magnetohydrodynamic stability
MOSFE	T		viscosity		Weibel instability
	field effect transistors		yaw		Goertler instability Taylor instability
		motion	aftereffects		low speed stability
	space stations)	RT	equations of motion		rotary stability
USE	space stations		kinetics		gyroscopic stability
Mossba	uer effect		momentum		spacecraft stability stability
	crystal lattices	motion e	equations		. dynamic stability
∞	effects		equations of motion		motion stability
	electromagnetic absorption fluorescence				aerodynamic stability
	gamma rays		perception perception		aircraft stability hovering stability
	laser induced fluorescence	ao	. motion perception		attitude stability
	resonance scattering	RT	binocular vision		directional stability
	resonant frequencies		monocular vision		gyroscopic stability
mosses			visual perception		lateral stability longitudinal stability
USE	Bryophytes	motion	pictures		flow stability
MOT (or	rhital talagganga)	UF	cinefluorography		boundary layer stability
	rbital telescopes) manned orbital telescopes	00	cineradiography		flame stability
		GS	photographs . motion pictures		magnetohydrodynamic stability Weibel instability
moths		RT	animation		Goertler instability
GS	animals . invertebrates		chronophotography		Taylor instability
	arthropods		cinematography		low speed stability
	insects		computer animation graphic arts		rotary stability gyroscopic stability
	moths		projectors		spacecraft stability
RT	silkworms bollworms		supplements	RT	combustion stability
	infestation		video equipment		coning motion
			video tapes		control stability dynamic tests
motility	locomotion		sickness		roughness
USE	locomotion		The syndrome of pallor, sweating, nau-		sea keeping
$\infty \   motion$			d vomiting which is induced by unusual ation. Used for air sickness.		spacecraft motion
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	UF	air sickness		stable oscillations surface stability
	LISTED BELOW)	GS	sicknesses		Surface Stability
	The act, process or instance of change on. Also called movement, especially	DT	. motion sickness	motivat	
	sed in connection with problems involv-	RT	acceleration stresses (physiology) aerospace medicine	GS	motivation . contract incentives
	motion of one craft relative to another.		dizziness	RT ∘	odrives
	movement.		head movement		incentives
	movement motion		nausea		learning
ao	. proper motion		space adaptation syndrome vomiting		morale reinforcement (psychology)
RT	acceleration (physics)		3		self stimulation
	attitude (inclination)		sickness drugs	~	stimuli
	Brownian movements coning motion	GS	drugs . motion sickness drugs	matar a	killa
	displacement	RT	pharmacology	motor s	ed August 2004)
	domain wall		,		sensorimotor performance
	gliding		simulation		
	gyration harmonic motion		Replication of exact motion or replica- art of a motion to provide the sensation		ystems (biology) efferent nervous systems
	head movement	of the m		USE	enerent hervous systems
	heaving	GS	simulation	motor v	
	high acceleration		. motion simulation		Automotive vehicles that do not run on
	immobilization inertia	RT	flight simulation flight simulators		nerally having rubber tires. surface vehicles
	ion motion		motion simulators	do	. motor vehicles
	ionic mobility		virtual reality		automated mixed traffic vehicles
	kinematics		at a state of		automobiles
	libration librational motion	motion GS	simulators simulators		electric automobiles electric motor vehicles
	momentum	do	. motion simulators		electric motor verilcies electric automobiles
	nutation	RT	computerized simulation		tractors
	orbits		control simulation		crawler tractors
	oscillations oscillators		flight simulators motion simulation		tracked vehicles trucks
	ocomatoro		model simulation		

. . trucks

tank trucks	RT assembling	maritime satellites
RT transportation	∞ attachment brackets	mobile communication systems radio communication
∞ vehicles	∞ joining	radio communication radio relay systems
motors	suspending (hanging)	satellite transmission
SN (LIMITED TO MACHINES SLIPPLIED WITH	3 ( 1 3 3)	
EXTERNAL ENERGY WHICH IS CONVERTED INTO FORCE AND/OR MOTIONSEE ENGINES FOR MACHINES	mounts	MSBLS
MOTIONSEE ENGINES FOR MACHINES	USE supports	USE microwave scanning beam landing
WITH SELF-CONTAINED POWER SOURCES)	mouth	system
DEF Machines supplied with external en-	GS anatomy	MSM (semiconductors)
ergy which is converted into force and/or motion.	. digestive system	DEF Semiconductor devices consisting of a
GS motors . electric motors	mouth	semiconductor layer sandwiched between two
asynchronous motors	lips (anatomy) . face (anatomy)	layers of metal. Used for metal-semiconductor-
induction motors	mouth	metal semiconductors.  UF metal-semiconductor-metal
micromotors	lips (anatomy)	semiconductors
. piezoelectric motors	RT salivary glands	GS electronic equipment
stepping motors	teeth	. solid state devices
synchronous motors torque motors	tongue	semiconductor devices
. servomotors	movement	<b>MSM (semiconductors)</b> RT MIM diodes
RT apogee boost motors	USE motion	photodiodes
∞ electric equipment	and the transfer to the state of	Schottky diodes
energy conversion efficiency	moving target indicators  DEF Radar devices that employ a technique	semiconductor junctions
engines ∞ generators	that enhances the detection and display of mov-	SIS (semiconductors)
hydraulic equipment	ing radar targets by supressing fixed targets.	MSRE reactors
stators	Doppler processing is one method of implemen-	USE molten salt nuclear reactors
	tation. Used for MTI indicators.	Total Sait Hadioar Toubtoro
MOTS (tracking system)	UF MTI radar	MSS (International Space Station)
USE minitrack system	GS radar	(added September 2001)
mountain inhabitants	. moving target indicators  RT cancellation circuits	USE Space Station Mobile Servicing
GS communities	coherent radar	System
. inhabitants	Doppler radar	MTBF
mountain inhabitants	over-the-horizon radar	DEF The mean of the distribution of time (or
RT altitude acclimatization	radar cross sections	cycles, miles, events) between successive fail-
high altitude environments	radar tracking target acquisition	ure. MTBF is often estimated by dividing the
low temperature environments	target acquisition	total operating time for like items by the total number of failures encountered. Used for mean
mountains	Mozambique	time bwtween failures.
GS landforms	GS nations	UF mean time between failures
. mountains	. Mozambique	GS time
Adirondack Mountains (NY)	RT Africa	MTBF
Alps Mountains (Europe)	MPD thrusters	RT downtime
Andes Mountains (South America) Appalachian Mountains (North	(added April 2001)	failure analysis failure modes
America)	USE magnetoplasmadynamic thrusters	life (durability)
Bighorn Mountains (MT-WY)	MDI M (International Change Station)	rates (per time)
. Black Hills (SD-WY)	MPLM (International Space Station) (added April 2005)	reliability
Carpathian Mountains (Europe)	USE Multi-Purpose Logistics Modules	statistical analysis
Cascade Range (CA-OR-WA)		MTF
Caucasus Mountains (U.S.S.R.) coastal ranges (CA)	MPP (computers)	USE modulation transfer function
Great Smoky Mountains (NC-TN)	USE massively parallel processors	OOL MODULATION TRANSICI TUNCTION
Himalayas	MR-3 flight	MTFF (space station)
Peninsular Ranges (CA)	USE Mercury MR-3 flight	USE man tended free flyers
Pyrenees Mountains (Europe)		MTI rodor
Rocky Mountains (North America) San Juan Mountains (CO)	MRAC (systems)	MTI radar USE moving target indicators
Sierra Nevada Mountains (CA)	USE model reference adaptive control	OOL moving target mulcators
Wind River Range (WY)	MRCA aircraft	MTPE
Wrangell Mountains (AK)	UF multi-role combat aircraft	USE Mission to Planet Earth
RT Central Piedmont (US)	Tornado aircraft	MUDIO /
cirques (landforms) cones (volcanoes)	RT ∞ aircraft	MUBIS (scanners) USE multiple beam interval scanners
continents	attack aircraft fighter aircraft	OOL multiple beam interval scanners
divides (landforms)	∞ military aircraft	mucoceles
formations	,	GS cysts
gaps (geology)	Mrkos comet	. mucoceles
geomorphology	GS celestial bodies	RT ∞ blisters
highlands Mars volcanoes	. comets Mrkos comet	mucus
massifs	RT solar system	GS body fluids
mesas		. mucus
orography	MSAT	RT saliva
∞ peaks	DEF A joint Canada/United States mobile	
peaks (landforms) piedmonts	satellite system which is being developed with a voice and data communication link between	mud GS sediments
piedmonts Pike's Peak (CO)	mobile units and the switched telephone net-	. mud
∞ ridges	work or between mobile units and other mobile	soils
terraces (landforms)	units via satellite. Each country will have a	. mud
volcanoes	satellite capable of mutual backup. Launch date	RT alluvium
volcanology	is planned for 1994.  GS artificial satellites	clays
watersheds	GS artificial satellites . communication satellites	fans (landforms) grout
mounting	. communication datemites	grout
	MSAT	ocean bottom
GS mounting	RT ground stations	ocean bottom rain erosion
GS <b>mounting</b> . rigid mounting		

tidal flats

#### mufflers

acoustic retrofitting RT aircraft noise attenuators baffles damping ∞ diffusers exhaust systems furnaces jet aircraft noise noise (sound) noise reduction propeller noise rocket engine noise silencers suppressors

#### mulberry (alloy)

GS alloys

mulberry (alloy) antimony alloys molybdenum alloys

#### mullites

RT

aluminum silicates RT 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

anodes microchannels radiation detectors spaceborne telescopes telescopes x ray detectors

### multibeam antennas

DEF Antennas that have the ability to form more than one beam from a single radiating aperture.

GS antennas

#### multibeam antennas

beams (radiation) lens antennas microwave antennas reflector antennas satellite antennas satellite communication

#### multiblock grids

(added May 1995)

multiple blocked grids coordinates

. computational grids

. . structured grids (mathematics)

.. multiblock grids

RT computational fluid dynamics

### multichannel communication

telecommunication

. 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 USE ions

### 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)

Research by combining several (academic) disciplines or methods.

GS research

#### . multidisciplinary research RT

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)

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.

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

interlavers

#### . multilayer insulation

composite materials cryogenic fluid storage fabrics

foils (materials) laminates ∞ layers

metal foils ply orientation sandwich structures

∞ sheets

multilayer structures

USE laminates

multiloop systems USE cascade control

#### multimedia

(added March 1993) hypermedia

interactive multimedia intermedia

audio visual equipment RT 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.

MMS

RT BESS (satellite)

Landsat follow-on missions satellite networks Solar Maximum Mission

#### multimode resonators

GS resonators

multimode resonators

cavity resonators magnetrons propagation modes

#### multipactor discharges

GS 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

RT cepstral analysis diffraction paths Fermat principle multistatic radar optical paths ∞ paths radio waves Rayleigh fading sound transmission wave propagation

### multiphase flow

mixed flow 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 arids

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

Skylab 4

spacecraft docking

multiple frequency radar

USE multispectral radar

multiple input multiple output

MIMO (control systems) USE

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)

The process of following movements of several targets simultaneously.

GS

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

USF fine structure

multiplex transmission USE multiplexing

multiplexers USE multiplexing

### multiplexing

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 UF

multiplexers

GS 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

number theory

. multiplication

arithmetic computation

fringe multiplication

multiplier phototubes

USE photomultiplier tubes

#### 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.

multipliers GS

channel multipliers Lagrange multipliers logic circuits photomultiplier tubes

#### multipolar fields

continuum mechanics field theory (physics) gravitational fields magnetic fields multipoles

#### multipoles

monopoles RT multipolar fields

# multiprocessing (computers) GS 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

time sharing vector processing (computers)

#### multiprogramming

multitasking (computers) GS computer programming

supercomputers

. 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

RT 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) DEF Models or simulations that effectively address phenomena across significantly differ-

ent scales. GS models

. multiscale models

computerized simulation mathematical models scale effect scale models

## multisensor applications

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.

UF data fusion sensor fusion GS multisensor applications multisensor fusion RT

data integration fuzzy systems imaging techniques remote sensing robotics signal processing terrain analysis

#### multispectral band cameras

optical equipment

. cameras

. multispectral band cameras photographic equipment

. cameras

. multispectral band cameras

infrared photography photography

#### multispectral band scanners

GS optical equipment

optical scanners

.. multispectral band scanners

. . . thematic mappers (LANDSAT)

. optical scanners

.. multispectral band scanners

. . thematic mappers (LANDSAT)

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 criented permendicular to the ground track Used. oriented perpendicular to the ground track. Used for MLA.

MLAUF

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

GS 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

UF 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

**Multispectral Resource Sampler** 

remote sensing

#### multispectral tracking telescopes

telescopes GS

. spectroscopic telescopes

. . multispectral tracking telescopes

optical measuring instruments optical tracking tracking (position)

multistage compressors

turbocompressors

#### multistage rocket vehicles

DEF 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

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

GS radar

. Doppler radar

... multistatic radar . surveillance radar

. . multistatic radar

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

statistical analysis

. variance (statistics) . . multivariate statistical analysis

. . . bivariate analysis . . . covariance . . . orthogonality

. . . regression analysis . . . . regression coefficients RT ∞ analyzing

correlation

discriminant analysis (statistics)

∞ variance

#### multivibrators

Two-stage regenerative circuits with two possible states and an abrupt transition characteristic.

circuits GS

## . multivibrators

. . flip-flops

	monostable multivibrators		smooth muscle		mechanograms
RT	amplifiers				muscle cells
	bistable circuits		contraction ded August 2004)		myosins
	logic circuits oscillators		muscular function		smooth muscle twitching
	positive feedback	OOL	mascalar function		twitching
	switching circuits	muscle	e fibers	muscu	lar strength
	trigger circuits	(add	ded August 2004)	RT	muscles
		DEF	Large, multinucleate single cells, either		musculoskeletal system
muon s	pin rotation		cal or prismatic in shape, that form the		skeletal muscle
	Particle spin depolarization caused by		nit of skeletal muscle tissue. They consist	c	∞ strength
	ty of muon spin to the presence of		oft contractile substance enclosed in a		lar tonus
defects	in certain metals.	UF	sheath. skeletal myocytes	UF	tonus
GS	gyration	GS	cells (biology)	GS	muscular tonus
	. rotation	40	. muscle cells	ao	. hypotonia
DT	muon spin rotation		muscle fibers	RT	exercise physiology
RT	charged particles	RT	muscles		muscles
	hyperfine structure muons		musculoskeletal system		
	particle diffusion		myosins		loskeletal system
	particle spin		skeletal muscle	UF	skeleton
	precession	muecle	e relaxants	GS	anatomy . musculoskeletal system
		GS	drugs		bones
muoniu	m	40	. muscle relaxants		femur
RT	electrons				pelvis
	mesons	muscle	es		scapula
		GS	anatomy		skull
muons			. musculoskeletal system		cranium
GS	particles		muscles		intracranial cavity
0.0	. elementary particles		constrictors		mastoids
	bosons		diaphragm (anatomy) flexors		spine
	mesons		myocardium		vertebrae sternum
	muons		skeletal muscle		tibia
	fermions		smooth muscle		ulna
	leptons		tendons		joints (anatomy)
	<b>muons</b> hadrons	RT	aldolase		elbow (anatomy)
	mesons		ataxia		knee (anatomy)
	muons		congeners		wrist
	. nuclear particles		convulsions electrocardiography		muscles
	bosons		fibrillation		constrictors diaphragm (anatomy)
	mesons		glucocorticoids		flexors
БТ	muons		heart		myocardium
RT	baryons		hypodynamia		skeletal muscle
	charged particles		muscle cells		smooth muscle
	electron decay rate muon spin rotation		muscle fibers		tendons
	muon spiir rotation		muscular fatigue		cartilage
			muscular strength	RT	connective tissue
GS	son meteorite celestial bodies		muscular tonus myoelectric potentials		exoskeletons
us	. meteorites		myoelectricity		hypokinesia intervertebral disks
	stony meteorites		myoglobin		muscle cells
	carbonaceous meteorites		myosins		muscle fibers
	carbonaceous chondrites		spasms		muscular fatique
	Murchison meteorite		twitching		muscular strength
	chondrites				sciatic region
	carbonaceous chondrites	musco			striation
	Murchison meteorite	DEF	An important mineral of the mica	c	∞ systems
		group. GS	aluminum compounds	museu	ma
-	meteorite	ao	. muscovite	RT	anthropology
GS	celestial bodies		chalcogenides		artifacts
	. meteorites		. oxides		buildings
	carbonaceous meteorites		silicon oxides		collection
	carbonaceous chondrites		muscovite		histories
	Murray meteorite		minerals		libraries
	chondrites		. mica		
	carbonaceous chondrites		muscovite silicon compounds	mushy	Regions of liquid plus solid phases in
	Murray meteorite		. silicon oxides		nat solidify over a range of temperatures
			muscovite		or liquid plus solid zones.
muscle	cells			UF	
(add	ed December 2004)	muscu	lar fatigue	RT	casting
	Mature contractile cells, commonly	GS	fatigue (biology)		cooling
	as myocytes, that form one of three kinds		. muscular fatigue		metallography
	ele. The three types of muscle cells are	RT	muscles		phase transformations
	(muscle fibers), cardiac, and smooth.		musculoskeletal system		solidification
	re derived from embryonic (precursor) cells called myoblasts.		stress (physiology)	music	
UF	myocytes	muscu	lar function	RT	arts
GS	cells (biology)	UF	muscle contraction		octaves
	. muscle cells	GS	muscular function		
	muscle fibers		. spasms	muske	gs
RT	muscles	RT	cramps	GS	landforms
	muscular function		∞ functions		. muskegs
	musculoskeletal system		hypodynamia	RT	Arctic regions
	myoelectricity		hypokinesia		marshlands
	myosins		hypotonia		soils

#### mutagenesis

topography neurons muscles myoglobin mvelin sheath biopolymers (added August 2004) Mustang aircraft
USE **P-51 aircraft** . proteins The lipid-rich sheath surrounding ax-. . myoglobin ons in both the central and peripheral nervous organic compounds systems. The myelin sheath is an electrical mutagenesis . proteins insulator and allows faster and more energeti-(added June 2000) . myoglobin cally efficient conduction of impulses. The DEF Induction or development of a genetic muscles sheath is formed by the cell membranes of glial mutation via a natural environmental mutagen or pigments cells ( schwann cells in the peripheral and through the methods of genetic engineering. oligodendroglia in the central nervous system). mvopia deoxyribonucleic acid GS anatomy RT vision gene expression . nervous system myosins genes . . nerves mutagens (added August 2004) ... myelin sheath DEF A diverse superfamily of proteins that mutations axons function as translocating proteins. They share radiation effects bioelectricity the common characterstics of being able to bind electrophysiology actins and hydrolyse MgATP. Myosins generally myelin mutagens consist of heavy chains which are involved in nerve fibers Agents that raise the frequency of mulocomotion, and light chains which are involved tations above the spontaneous rate. in regulation. Mylar (trademark) air pollution GS biopolymers GS polymeric films biochemistry . proteins Mylar (trademark) biological evolution ... myosins polyethylene terephthalate cells (biology) organic compounds ∞ polymers chemical analysis . proteins genetics . myosins myocardial infarction mutagenesis adenosine triphosphate adenosinetriphosphatase GS diseases mutations . heart diseases muscle cells . . infarction mutations . . myocardial infarction muscle fibers biological diversity muscles arteriosclerosis biological evolution muscular function blood coagulation cells (biology) coronary artery disease Mystere 20 aircraft chromosome aberrations hypertension Dassault Mystere 20 aircraft chromosomes necrosis Dassault aircraft genes thrombosis Mystere 20 aircraft genetics jet aircraft mitosis myocardium . turbofan aircraft mutagenesis GS anatomy Mystere 20 aircraft mutagens . circulatory system light aircraft nucleogenesis . . cardiovascular system . Mystere 20 aircraft oncogenes . . . heart monoplanes radiation hazards . . myocardium . Mystere 20 aircraft . musculoskeletal system passenger aircraft
. Mystere 20 aircraft . . muscles MX missile . . myocardium DEF United States strategic intercontinental transport aircraft angina pectoris ballistic missile. . Mystere 20 aircraft heart conduction system UF Peacekeeper missile Mystere 50 aircraft GS missiles myocytes DEF A tri-engine business jet aircraft (Das-. ballistic missiles (added December 2004) sault). Used for Dassault Mystere 50 aircraft. . . intercontinental ballistic missiles USE muscle cells Dassault Mystere 50 aircraft . MX missile Dassault aircraft . surface to surface missiles myoelectric potentials . Mystere 50 aircraft . . intercontinental ballistic missiles myoelectricity GS jet aircraft ... MX missile myoelectric potentials . Mystere 50 aircraft RT missile silos muscles passenger aircraft ∞ potential Mystere 50 aircraft myelin transport aircraft myoelectricity RT fats . Mystere 50 aircraft GS myoelectricity lipids RT ∞ aircraft myelin sheath myoelectric potentials turbofan engines electromyography

muscle cells

nerves nervous system

N electr	rons		SNC meteorites	DEF	A method for determining various me-
GS	particles			chanica	al properties of materials on a very small
	. charged particles	NAMC a	aircraft	scale b	y observing an indentation made with a
	energetic particles	USE	Nihon aircraft		ale diamond probe at a selected rate and
	electrons	002			orce-displacement curves derived from
		Namibia	•		
	N electrons				entation reflect a material's response to
	. corpuscular radiation	UF	South West Africa		ation, from which properties such as
	energetic particles	RT	Africa	hardnes	ss and modulus of elasticity can be de-
	electrons		nations	termine	ed.
	N electrons		Republic of South Africa	GS	indentation
	. elementary particles		·		. nanoindentation
	fermions	naming		RT	
		GS	naming	ΠI	1,7
	leptons	ao			hardness tests
	electrons		. norms		Knoop hardness
	N electrons	RT	nomenclatures		∞ materials tests
RT	beta particles		specifications		mechanical properties
			standardization		microhardness
N-156 a	ircraft				modulus of elasticity
	F-5 aircraft	nanocli	eters		,
USE	r-5 all'Clait				nanotechnology
A / A . O O O			ed December 2006)		
NA-300			Groups of well-ordered, uniform nano-	nanopa	articles
USE	OV-10 aircraft	particles	arranged in technologically useful		led March 2002)
		shapes,	often displaying optical, electronic, and		
nacelle	wing configurations		I properties of interest.		Ultra fine particles with dimensions in
	ed August 1998)	GS	nanostructures (devices)	the ran	ge of 1 to 100 nanometers.
		GS		GS	particles
USE	wing nacelle configurations		nanoclusters		nanoparticles
		RT	metal clusters	RT	fullerenes
nacelles			molecular clusters	пі	
RT	aerodynamic configurations		nanocrystals		nanocrystals
	air intakes		nanofabrication		nanostructure (characteristics)
	airframes		nanotechnology		nanostructure growth
			nanotechnology		nanotechnology
	cowlings				nanotubes
	ducted bodies	nanoco	mposites		
	engine inlets	(add	ed December 2000)		thin films
	external store separation		composite materials		
	external stores	0.0	•	nanoro	ods
		DT	nanocomposites		led December 2006)
	external tanks	RT	aluminum oxides		
	fairings		ceramic matrix composites		Elongated nanoscale objects that may
	housings		grain size	be synt	thesized from metals or semiconducting
	nose inlets		nanocrystals	materia	lls, each of their dimensions ranging from
	perforated shells		nanostructure (characteristics)	1-100 r	
				GS	nanostructures (devices)
	pods (external stores)		particulate reinforced composites	ao	
	protuberances		polymer matrix composites		nanorods
	shells (structural forms)		silicon carbides	RT	nanocrystals
	wing-fuselage stores		silicon nitrides		nanofabrication
	3				nanotechnology
Naiad			atallina matariala		nanotubes
	1.1 (000)		stalline materials		
	ed January 1996)		ed October 1997)		nanowires
DEF	A natural satellite of Neptune orbiting	USE	nanocrystals		
at a mea	an distance of 48,000 kilometers.		•	nannes	atellites
GS	celestial bodies	nanocry	stalline structure		
ao	. natural satellites		ed October 1997)		led October 1998)
		,	,		Satellites with a total mass smaller
	. Neptune satellites	USE	nanostructure (characteristics)	than 10	kg incorporating miniaturized electronic
	Naiad				echanical systems.
RT	Neptune (planet)	nanocr	/stals		nanosats
	,	(add	ed October 1997)		artificial satellites
nakad s	singularities	ÙF	nanocrystalline materials	us	
DEF		GS			. nanosatellites
		us	crystals	RT	microelectromechanical systems
	and communicable to the outside world,		. nanocrystals		microminiaturization
i.e., sing	gularities that are not shielded by an	RT	crystal structure		microminiaturized electronic devices
event ho	orizon from infinity.		grain size		microsatellites
GS	analysis (mathematics)		microcrystals		
ao			nanoclusters		satellite constellations
	. complex variables				satellite design
	singularity (mathematics)		nanocomposites		small satellite technology
	naked singularities		nanoparticles		small scientific satellites
RT	astrophysics		nanorods		
	black holes (astronomy)		nanostructure (characteristics)		
	cosmology		narioditatato (orialactoriotico)	nanosa	its
				(add	led October 1998)
		nanotai	prication	USE	nanosatellites
	degenerate matter		ed January 2002)		nanosatennes
	event horizon	(add	su danuary 2002)	USE	
	event horizon	(adde DEF		USE	
	event horizon gravitational collapse	DEF	Process of, and techniques for, creat-		ructure (characteristics)
	event horizon gravitational collapse points (mathematics)	DEF ing nand	Process of, and techniques for, creat- oscale structures and devices.	nanost	ructure (characteristics)
	event horizon gravitational collapse points (mathematics) relativity	DEF ing nand UF	Process of, and techniques for, creat- oscale structures and devices. nanostructure fabrication	nanost (ada	led October 1997)
	event horizon gravitational collapse points (mathematics) relativity space-time functions	DEF ing nand	Process of, and techniques for, creat- oscale structures and devices. nanostructure fabrication fabrication	nanost (ada UF	led October 1997) nanocrystalline structure
	event horizon gravitational collapse points (mathematics) relativity	DEF ing nand UF	Process of, and techniques for, creat- oscale structures and devices. nanostructure fabrication	nanost (ada	led October 1997)
	event horizon gravitational collapse points (mathematics) relativity space-time functions	DEF ing nand UF	Process of, and techniques for, creat- oscale structures and devices. nanostructure fabrication fabrication	nanost (ada UF	led October 1997) nanocrystalline structure
	event horizon gravitational collapse points (mathematics) relativity space-time functions theoretical physics	DEF ing nand UF GS	Process of, and techniques for, creat- scale structures and devices. nanostructure fabrication fabrication . nanofabrication atomic force microscopy	nanost (ada UF	led October 1997) nanocrystalline structure microstructure
nakhlita	event horizon gravitational collapse points (mathematics) relativity space-time functions theoretical physics white holes (astronomy)	DEF ing nand UF GS	Process of, and techniques for, creat- oscale structures and devices. nanostructure fabrication fabrication nanofabrication atomic force microscopy electron beams	nanost (add UF GS RT	led October 1997) nanocrystalline structure microstructure nanostructure (characteristics) carbon nanotubes
nakhlite	event horizon gravitational collapse points (mathematics) relativity space-time functions theoretical physics white holes (astronomy)	DEF ing nand UF GS	Process of, and techniques for, creat- oscale structures and devices. nanostructure fabrication fabrication . nanofabrication atomic force microscopy electron beams lithography	nanost (add UF GS RT	led October 1997) nanocrystalline structure microstructure nanostructure (characteristics) carbon nanotubes ∞ characteristics
(adde	event horizon gravitational collapse points (mathematics) relativity space-time functions theoretical physics white holes (astronomy) es ad August 1991)	DEF ing nand UF GS	Process of, and techniques for, creat- becale structures and devices.  nanostructure fabrication fabrication . nanofabrication atomic force microscopy electron beams lithography nanoclusters	nanost (add UF GS RT	led October 1997) nanocrystalline structure microstructure nanostructure (characteristics) carbon nanotubes ∞ characteristics crystal structure
(adde	event horizon gravitational collapse points (mathematics) relativity space-time functions theoretical physics white holes (astronomy)  es ed August 1991) Achondritic stony meteorites consist-	DEF ing nand UF GS	Process of, and techniques for, creat- scale structures and devices. nanostructure fabrication fabrication . nanofabrication atomic force microscopy electron beams lithography nanoclusters nanorods	nanost (add UF GS RT	led October 1997) nanocrystalline structure microstructure nanostructure (characteristics) carbon nanotubes ∞ characteristics
(adde	event horizon gravitational collapse points (mathematics) relativity space-time functions theoretical physics white holes (astronomy) es ad August 1991)	DEF ing nand UF GS	Process of, and techniques for, creat- becale structures and devices.  nanostructure fabrication fabrication . nanofabrication atomic force microscopy electron beams lithography nanoclusters	nanost (add UF GS RT	led October 1997) nanocrystalline structure microstructure nanostructure (characteristics) carbon nanotubes ∞ characteristics crystal structure
(adde DEF ing of a l	event horizon gravitational collapse points (mathematics) relativity space-time functions theoretical physics white holes (astronomy)  es ed August 1991) Achondritic stony meteorites consist- holocrystalline aggregate of diopside (75	DEF ing nand UF GS	Process of, and techniques for, creat- scale structures and devices. nanostructure fabrication fabrication . nanofabrication atomic force microscopy electron beams lithography nanoclusters nanorods nanostructures (devices)	nanost (add UF GS RT	led October 1997) nanocrystalline structure microstructure nanostructure (characteristics) carbon nanotubes characteristics crystal structure dendrimers grain size
(adde DEF ing of a l percent)	event horizon gravitational collapse points (mathematics) relativity space-time functions theoretical physics white holes (astronomy)  es ed August 1991) Achondritic stony meteorites consist- nolocrystalline aggregate of diopside (75 and olivine.	DEF ing nand UF GS	Process of, and techniques for, creat- bascale structures and devices.  nanostructure fabrication fabrication . nanofabrication atomic force microscopy electron beams lithography nanoclusters nanorods nanostructures (devices) nanotechnology	nanost (add UF GS RT	led October 1997) nanocrystalline structure microstructure (characteristics) carbon nanotubes ∞ characteristics crystal structure dendrimers grain size micelles
(adde DEF ing of a l	event horizon gravitational collapse points (mathematics) relativity space-time functions theoretical physics white holes (astronomy) es ad August 1991) Achondritic stony meteorites consist- nolocrystalline aggregate of diopside (75 and olivine. celestial bodies	DEF ing nand UF GS	Process of, and techniques for, creat- bascale structures and devices.  nanostructure fabrication fabrication atomic force microscopy electron beams lithography nanoclusters nanorods nanostructures (devices) nanotechnology nanowires	nanost (add UF GS RT	led October 1997) nanocrystalline structure microstructure (characteristics) carbon nanotubes ∞ characteristics crystal structure dendrimers grain size micelles nanocomposites
(adde DEF ing of a l percent)	event horizon gravitational collapse points (mathematics) relativity space-time functions theoretical physics white holes (astronomy)  se ad August 1991) Achondritic stony meteorites consist- nolocrystalline aggregate of diopside (75 and olivine. celestial bodies . meteorites	DEF ing nand UF GS	Process of, and techniques for, creat- scale structures and devices. nanostructure fabrication fabrication . nanofabrication atomic force microscopy electron beams lithography nanoclusters nanorods nanostructures (devices) nanostructures (devices) nanowires quantum electronics	nanost (add UF GS RT	led October 1997) nanocrystalline structure microstructure (characteristics) carbon nanotubes  ∞ characteristics crystal structure dendrimers grain size micelles nanocomposites nanocrystals
(adde DEF ing of a l percent)	event horizon gravitational collapse points (mathematics) relativity space-time functions theoretical physics white holes (astronomy) es ad August 1991) Achondritic stony meteorites consist- nolocrystalline aggregate of diopside (75 and olivine. celestial bodies	DEF ing nand UF GS	Process of, and techniques for, creat- bascale structures and devices.  nanostructure fabrication fabrication atomic force microscopy electron beams lithography nanoclusters nanorods nanostructures (devices) nanotechnology nanowires	nanost (add UF GS RT	led October 1997) nanocrystalline structure microstructure (characteristics) carbon nanotubes ∞ characteristics crystal structure dendrimers grain size micelles nanocomposites
(adde DEF ing of a l percent)	event horizon gravitational collapse points (mathematics) relativity space-time functions theoretical physics white holes (astronomy)  se ad August 1991) Achondritic stony meteorites consist- nolocrystalline aggregate of diopside (75 and olivine. celestial bodies . meteorites	DEF ing nand UF GS	Process of, and techniques for, creat- scale structures and devices. nanostructure fabrication fabrication . nanofabrication atomic force microscopy electron beams lithography nanoclusters nanorods nanostructures (devices) nanostructures (devices) nanowires quantum electronics	nanost (add UF GS RT	led October 1997) nanocrystalline structure microstructure (characteristics) carbon nanotubes  ∞ characteristics crystal structure dendrimers grain size micelles nanocomposites nanocrystals
(adde DEF ing of a l percent)	event horizon gravitational collapse points (mathematics) relativity space-time functions theoretical physics white holes (astronomy)  es ed August 1991) Achondritic stony meteorites consist- holocrystalline aggregate of diopside (75 and olivine. celestial bodies . meteorites stony meteorites achondrites	DEF ing nand UF GS	Process of, and techniques for, creat- scale structures and devices.  nanostructure fabrication fabrication . nanofabrication atomic force microscopy electron beams lithography nanoclusters nanorods nanostructures (devices) nanotechnology nanowires quantum electronics scanning tunneling microscopy	nanost (add UF GS RT	led October 1997) nanocrystalline structure microstructure (characteristics) carbon nanotubes ∞ characteristics crystal structure dendrimers grain size micelles nanocomposites nanocrystals nanoparticles nanostructure growth
(adde DEF ing of a l percent) GS	event horizon gravitational collapse points (mathematics) relativity space-time functions theoretical physics white holes (astronomy)  es ed August 1991) Achondritic stony meteorites consist- holocrystalline aggregate of diopside (75 hand olivine. celestial bodies meteorites stony meteorites achondrites nakhlites	DEF ing nand UF GS RT	Process of, and techniques for, creat- bascale structures and devices.  nanostructure fabrication fabrication atomic force microscopy electron beams lithography nanoclusters nanorods nanostructures (devices) nanotechnology nanowires quantum electronics scanning tunneling microscopy self assembly	nanost (add UF GS RT	led October 1997) nanocrystalline structure microstructure (characteristics) carbon nanotubes ∞ characteristics crystal structure dendrimers grain size micelles nanocomposites nanocrystals nanoparticles nanostructure growth nanotechnology
(adde DEF ing of a l percent)	event horizon gravitational collapse points (mathematics) relativity space-time functions theoretical physics white holes (astronomy)  es ed August 1991) Achondritic stony meteorites consist- holocrystalline aggregate of diopside (75 and olivine. celestial bodies . meteorites stony meteorites achondrites	DEF ing nand UF GS RT	Process of, and techniques for, creat- scale structures and devices.  nanostructure fabrication fabrication . nanofabrication atomic force microscopy electron beams lithography nanoclusters nanorods nanostructures (devices) nanotechnology nanowires quantum electronics scanning tunneling microscopy	nanost (add UF GS RT	led October 1997) nanocrystalline structure microstructure (characteristics) carbon nanotubes ∞ characteristics crystal structure dendrimers grain size micelles nanocomposites nanocrystals nanoparticles nanostructure growth

semiconductors (materials) nanoparticles GS bandwidth nanorods . narrowband nanostructure fabrication nanostructure (characteristics) RT ∞ bands (added January 2002) nanostructure growth broadband USE nanofabrication nanotechnology frequencies nanostructure growth NASA Communication Network USE NASCOM network (added September 2001) nanotubules DEF The progressive formation of nano-scale material structures by various means in-(added June 2000) NASA End-to-End Data System USE nanotubes cluding catalytic formation, laser ablation, USE needs (data system) chemical vapor deposition, and plasma deposinanowires **NASA Interactive Planning System** (added March 2005) NIPS (system) GS growth Wire structures with thickness mea-RT computer programs nanostructure growth sured in nanometers (below 1 micron or 1 x Earth resources RT crystal growth 10(exp -6) meters in thickness). management methods NASA programs fullerenes GS nanostructures (devices) laser ablation . nanowires project planning laser deposition . . quantum wires resource allocation nanoparticles nanofabrication resources management nanostructure (characteristics) nanorods nanostructures (devices) ∞ systems nanostructure growth nanotechnology nanotechnology **NASA** programs nanotubes quantum electronics GS programs nanowires NASA programs
 ACEE program
 Assess program vapor deposition naphthalene organic compounds nanostructures (devices) . cyclic compounds ATLIT project (added October 1997) . . cyclic hydrocarbons ... DAST program nanostructures (devices) . naphthalene . . NASA space programs . nanotubes . hydrocarbons . . cyclic hydrocarbons . quantum dots . . . Apollo applications program ... naphthalene Apollo project . . carbon nanotubes ... Bioastronautical Orbital Space . nanowires System . . quantum wires naphthenes . nanoclusters GS organic compounds . . . Centaur project . nanorods . cyclic compounds ... Earth & Ocean Physics . . cyclic hydrocarbons Applications Program single electron transistors adatoms . . naphthenes ... Earth Resources Program .... Earth Resources Survey . hydrocarbons devices . . cyclic hydrocarbons nanofabrication Program . SEASAT program nanostructure growth ... naphthenes nanotechnology . . . Echo project Galileo project quantum electronics nap-of-the-earth navigation DEF Low altitude flight of helicopters during semiconductor devices Gemini project night or day utilizing electronic means for detection and recognition of landmarks and targets. Helios Project nanotechnology Jupiter project Used for NOE navigation.

UF NOE navigation (added June 2000) Magellan project (NASA) The creation of functional materials, Mariner program devices, and systems through control of matter navigation
. air navigation Mariner Venus-Mercury 1973 GS Mariner-Mercury 1973 on the nanometer-length scale; exploitation of novel phenomena and properties at the nanom-. . nap-of-the-earth navigation Mars 69 project . . terrain following Mars 71 project eter scale. Mercury project
National Launch Vehicle Program GS technologies helicopters . nanotechnology image processing NEW MOONS project RT adatoms low altitude Nimbus project microelectromechanical systems night flights (aircraft) **OPEN Project** microelectronics night vision nanoclusters target recognition Pioneer project nanofabrication terrain analysis Project SETI Ranger project nanoindentation Agena B Ranger Program nanoparticles nappes Constellation program nanorods USE folds (geology) nanostructure (characteristics) Mars Surveyor 98 Program New Horizons mission nanostructure growth narcolepsy nanostructures (devices) GS diseases Rover project SAIL project nanotubes . narcolepsy Saturn project nanowires quantum dots Scout project quantum electronics DEF A state of profound stupor, produced Skylab program by the toxic effect of certain substances; in Starprobe mission quantum wires resonant tunneling diodes diluent gas narcosis, by excessive partial pres-Surveyor project sure of the diluent. . . . Synchronous Communications self assembly GS unconsciousness Satellite Proj single electron transistors narcosis Tektite project nanotubes physiology ... TIROS project (added June 2000) ∞ poisoning Titan project 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 drugs Voyager project GS defect free, leading to high strength despite their Mission to Planet Earth . narcotics low density; and can be either electrically con-. . National Aerospace Plane Program . . morphine ductive or semiconductive, depending on their pentobarbital . . quiet engine program . . supersonic cruise aircraft research helicity. phenobarbital UF nanotubules psychotropic drugs TACT program GS nanostructures (devices) ... Terminal Configured Vehicle . nanotubes Program . Tilt Rotor Research Aircraft narrowband . carbon nanotubes DEF A description of frequency measurement whose frequency band of energy is smaller

relative to the rest of the band.

Program

Advanced Launch System (STS)

RT

fullerenes

graphite

AgRISTARS project	Viking Mars program	dynamic loads	
Apollo extension system	Voyager project	finite element method	
Canadian space program	. space programs	matrix methods	
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	
Gravity Probe B	Earth Resources Program	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	X-30 Verlicle	
OSS-1 payload	Gemini project	National Airspace System	
payload deployment & retrieval	Helios Project	RT air traffic control	
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	
SEASAT satellites	Mars 69 project	rianona / manon oyotom	
single stage to orbit vehicles	Mars 71 project	National Airenage Utilization Creton	
space programs	Mercury project	National Airspace Utilization System	
space transportation system	National Launch Vehicle Program	RT air law	
Spacelab	NEW MOONS project	air navigation	
SPHINX	Nimbus project	air traffic	
Starsite program	OPEN Project	air traffic control	
StormSat satellite		aircraft approach spacing	
	Pioneer project	airspace	
Synchronous Earth Observatory	Project SETI	collision avoidance	
satellite	Ranger project	flight paths	
technology utilization	Agena B Ranger Program	flight plans	
Transit navigation system	Constellation program	flight rules	
university program	Mars Surveyor 98 Program	National Airspace System	
	New Horizons mission		
	Rover project	∞ systems	
NASA space programs	SAIL project		
GS programs	Saturn project	National Aviation System	
. NASA programs	Scout project	RT air traffic	
NASA space programs	Skylab program	air traffic control	
Apollo applications program	Starprobe mission	air transportation	
Apollo project	Surveyor project	aircraft approach spacing	
Bioastronautical Orbital Space		flight rules	
System	Synchronous Communications	landing aids	
Centaur project	Satellite Proj	National Airspace System	
Earth & Ocean Physics	Tektite project	∞ systems	
Applications Program	TIROS project	traffic control	
Earth Resources Program	Titan project	tranic control	
	Vanguard project		
Earth Resources Survey	Viking Mars program	National Launch Vehicle Program	
Program	Voyager project	GS programs	
SEASAT program	RT Advanced Launch System (STS)	. NASA programs	
Echo project	Cassini mission	NASA space programs	
Galileo project	Cluster Mission	National Launch Vehicle	
Gemini project	Comet Rendezvous Asteroid Flyby	Program	
Helios Project	Mission	. space programs	
Jupiter project	Deep Space 1 Mission	NASA space programs	
Magellan project (NASA)	International Space Year	National Launch Vehicle	
Mariner program	manned Mars missions	Program	
Mariner Venus-Mercury 1973	Mars sample return missions	RT launch vehicles	
Mariner-Mercury 1973		launchers	
Mars 69 project	Mars Surveyor 2001 Mission	launching	
Mars 71 project	Next Generation Space Telescope		
Mercury project	project	launching sites	
National Launch Vehicle Program	Space Station Freedom		
NEW MOONS project	NAOA OL	National Oceanic Satellite System	
	NASA Structural Analysis program	DEF Joint NASA (Goddard)-DOD venture.	
Nimbus project	USE <b>NASTRAN</b>	RT artificial satellites	
OPEN Project		maritime satellites	
Pioneer project	NASCOM network	∞ systems	
Project SETI	UF NASA Communication Network	·	
Ranger project	GS communicating	National Operational Environmental Sat Sys	
Agena B Ranger Program	. point to point communication	USE <b>NOESS</b>	
Constellation program	NASCOM network	OOL NOLOO	
Mars Surveyor 98 Program	networks		
New Horizons mission	. communication networks	national parks	
Rover project	NASCOM network	DEF Areas of scenic beauty or historical	
SAIL project	RT Fleet Satellite Communication System	importance preserved and maintained by a na-	
Saturn project	Global Tracking Network	tional government for the enjoyment of the pub-	
Scout project	radio communication	lic.	
Skylab program	telecommunication	GS land	
Starprobe mission	telecommunication	. parks	
Surveyor project	NASTRAN	national parks	
		Yellowstone National Park	
Synchronous Communications	UF NASA Structural Analysis program		
	, , ,	(ID-MT-W/V)	
Satellite Proj	GS computer programs	(ID-MT-WY)	
Tektite project	GS computer programs . applications programs (computers)	, ,	
Tektite project TIROS project	GS computer programs . applications programs (computers) . NASTRAN	National Severe Storms Project	
Tektite project	GS computer programs . applications programs (computers)	, ,	

warning systems . Iceland . Turkey India . Turkmenistan . U.S.S.R. . Indonesia nations . Iran . Uganda GS nations . Iraq . Ukraine . Afghanistan Ireland . United Arab Emirates . Albania . United Kingdom . Israel . Algeria . . England . Italy . Andorra Jamaica . . Gibraltar Angola Antigua and Barbuda . Japan . . Northern Ireland Argentina Jordan Scotland Armenia Kazakhstan Wales Australia . United States Kenya Austria Kuwait . . Alabama . Azerbaijan Kyrgyzstan . . Alaska Bahamas . . Arizona Laos Bahrain Latvia . . Arkansas Bangladesh Lebanon California Barbados . Lesotho . . Colorado Belarus Liberia Connecticut . Libya . Liechtenstein Delaware . Belgium District of Columbia Belize . Benin . Lithuania . . Florida Bhutan Luxembourg . . Georgia Madagascar Malawi . . Guam Bolivia Botswana . . Hawaii Malaysia Maldive Islands . . Idaho Brazil . . Illinois Brunei Bulgaria Mali . . Indiana Burkina Malta . . Iowa Mauritania Burma Kansas Mauritius Burundi Kentucky Cambodia Mexico Louisiana Cameroon Moldova Maine . Canada Monaco Maryland Alberta Mongolia Massachusetts British Columbia Morocco Michigan Manitoba Mozambique 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 North Dakota Panama Papua New Guinea . Chad . . Ohio Paraguay Oklahoma Chile . China Peru Oregon Colombia Philippines Pennsylvania . Congo (Brazzaville) Poland Puerto Rico Portugal
. Azores Costa Rica Rhode Island Cote d'Ivoire South Carolina . South Dakota Croatia Qatar Republic of South Africa . Cuba Romania Russian Federation Cyprus texas . Czech Republic . . Utah Vermont Virgin Islands Rwanda Czechoslovakia San Marino Saudi Arabia Denmark . Djibouti Virginia Dominica . . Washington Senegal Dominican Republic Seychelles West Virginia Sierra Leone East Germany Wisconsin Ecuador Sikkim Wyoming . Egypt . El Salvador Singapore Bosnia and Herzegovina Slovakia Democratic Republic of Congo Estonia Somalia Serbska Republic . 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) . Zambia Sweden Germany Switzerland Zimbabwe . Ghana Africa Syria Taiwan Greece Asia . Grenada Tajikistan cities Guatemala Tanzania Commonwealth of Independent . Guinea Thailand States . Guvana Tibet communities demography . Haiti Togo Trinidad and Tobago . Honduras developing nations

Tunisia

Europe

. Hungary

federations artificial intelligence . . Umbriel Hong Kong expert systems artificial satellites international law human-computer interface Cyrillid meteoroids minorities information analysis Earth-Moon system Namibia knowledge based systems meteoroids politics linguistics moonlets machine translation regimes planets Spanish Sahara parsing algorithms Roche limit United Nations semantics satellite atmospheres satellite surfaces NATO 3B satellite ∞ satellites GS artificial satellites natural lasers Saturn rings . communication satellites USE lasers solar system . . Communications Technology tektites natural satellites Satellite Uranus rings (EXCLUDES PLANETS) Dactyl ... NATO 3B satellite moons natural convection A feeling of discomfort in the region of planetary satellites the stomach, with aversion to food and a ten-USE free convection celestial 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 DEF (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 propane, or others may be present. (B) Gaseous DEF Charts and maps of oceans, coasts hydrocarbons trapped in the zone of ground Hyperion and harbors now compiled from satellite data for lapetus water saturation under pressure from, and parprecision and correction of local errors. tially dissolved in, underlying water or petro-Mimas GS charts Rhea (astronomy) . nautical charts Tethys 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 . . Návaho missile . . . liquefied natural gas ... Callisto . surface to surface missiles . . cruise missiles gases . . . . Europa . . . . Ganymede . flammable gases ... Navaho missile RT liquid propellant rocket engines multistage rocket vehicles . . gaseous fuels ... natural gas . . . Himalia Leda ... liquefied natural gas ramjet engines geophysical fluids Lysithea natural gas Metis Navier-Stokes equation . liquefied natural gas Pasiphae The equation of motion for a viscous Sinope fluid. organic compounds equations of motion . Navier-Stokes equation flow equations Thebe . hvdrocarbons GS . . Mars satellites . . natural gas . . liquefied natural gas ... Deimos Phobos **Navier-Stokes equation** resources Burger equation computational fluid dynamics . . moon . Earth resources . . Neptune satellites . . fossil fuels Galatea direct numerical simulation ... natural gas Larissa ∞ equations . . . liquefied natural gas RT methane Naiad flow theory natural gas exploration Nereid incompressible flow Proteus oil fields incompressible fluids petroleum products Triton large eddy simulation Pluto satellites Milne-Thomson method natural gas exploration Charon 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 exploration Calypso Reynolds stress natural gas exploration Dione viscous flow drilling Enceladus viscous fluids methane **Epimetheus** Helene natural gas oil exploration Hyperion DEF 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 Mimas natural language (computers) human, a navigator, aboard the craft. A computer language whose rules re-Pandora navigation flect and describe current rather than prescribed Phoebe . air navigation usage. The language is often loose and ambigu-Prometheus . . all-weather air navigation . . area navigation
. . nap-of-the-earth navigation ous in interpretation. Rhea (astronomy) languages Telesto . . . terrain following . programming languages . Tethys natural language (computers) . autonomous navigation Titan . celestial navigation computer programming . . Uranus satellites Ariel . . Astroquide Navigation System context data processing Cordelia . . astronavigation

Miranda

Oberon

Puck

. . . Titania

GS

knowledge representation

natural language processing

(added September 1993)

. dead reckoning

digital navigation

Doppler navigation

. hybrid navigation systems

	inertial navigation     Astroguide Navigation System     gimballess inertial navigation     Omega Navigation System		flight control flight management systems flight paths gyrostabilizers		satellite navigation systems satellite networks synchronous satellites Transit navigation system
	polar navigation radar navigation radio navigation		head-up displays heliports homing devices	DEF	tion technology satellites Class of navigation satellites utilizing
	hyperbolic navigation Decca navigation LORAC navigation system loran		hybrid navigation systems inertial navigation Kalman filters landing aids	cise fre NTS.	pal positioning system as well as a pre- equency and timing system. Used for NTS
	loran C loran D Shoran		laser range finders LORAC navigation system loran	GS	artificial satellites . navigation satellites . navigation technology satellites
	Tacan		loran C	RT	NAVSTAR satellites
	. VHF omnirange navigation space navigation		loran D maps	navigat	tors
	interplanetary navigation	c	∞ mars	GS	personnel
	. proportional navigation		military air facilities	RT	. <b>navigators</b> flight crews
RT	. surface navigation automatic flight control		nautical charts plotters	111	flying personnel
	azimuth		position indicators		
	bay ice		radio navigation		aircraft
	declination		range finders	GS	Navion aircraft . G-1 aircraft
	distance measuring equipment ofixing		reduced order filters reference stars	RT «	∞ aircraft
0	flight control		sextants		2.1.6
	flight paths		Shoran		G-1 aircraft G-1 aircraft
	Global Positioning System		solar sensors	USL	G-1 all Clait
	guidance (motion) gyroscopic coupling		sonar star trackers	Navion	Rangemaster aircraft
	homing devices		surface navigation	USE	G-1 aircraft
	latitude measurement		Tacan	NAVST	AR satellites
	locomotion		VHF omnirange navigation	GS	artificial satellites
	longitude measurement		weather		. navigation satellites
	orbital position estimation plotting			DT	NAVSTAR satellites
	position (location)		ion instruments navigation aids	RT	active satellites ATS
	position errors	40	. navigation instruments		geodetic satellites
	positioning star trackers		attitude indicators		INMARSAT satellites
	stationkeeping		gyro horizons		navigation technology satellites
0	∘ systems		compasses gyrocompasses		Refsat satellite networks
	triangulation		magnetic compasses		
			solar compasses	navy	
	ion aids	RT	radio direction finders aircraft equipment	GS	armed forces
GS	navigation aids . beacons	пі	aircraft instruments	RT	. <b>navy</b> aircraft carriers
	. airport beacons		altimeters		ballistic missile submarines
	discrete address beacon system		autonomous navigation		Fleet Satellite Communication System
	radar beacons		boresight error flight control		nuclear powered ships ships
	discrete address beacon system radio beacons		flight instruments		submarines
	omnidirectional radio ranges		gimballess inertial navigation		trident submarine
	self calibrating omnirange		horizon scanners	c	∞ vessels
	radio direction finders		hybrid navigation systems inertial platforms	N-body	problem
	Light Airborne Multipurpose System     microwave scanning beam landing	c	∘ instruments		many body problem
	system		Kalman-Schmidt filtering	NO 100	) aireacht
	navigation instruments		laser range finders Light Airborne Multipurpose System		aircraft C-130 aircraft
	attitude indicators gyro horizons		LORAC navigation system	002	o roo unoran
	compasses		loran		emiconductor devices
	gyrocompasses		measuring instruments	SN	(NEGATIVE DIFFERENTIAL MOBILITY SEMICONDUCTOR DEVICES)
	magnetic compasses		position indicators radar	UF	negative diff mobility semiconductors
	solar compasses radio direction finders		solar sensors	GS	electronic equipment . solid state devices
	. TERCOM		star trackers		semiconductor devices
RT •	o aids		TERCOM		NDM semiconductor devices
	air navigation air traffic control	noviaci	tion satellites	RT	conduction bands
	aircraft equipment	GS	artificial satellites	c	∞ devices diffusivity
	aircraft instruments		navigation satellites		electron mobility
	aircraft safety		Aerosat satellites		ionic mobility
	airports all-weather air navigation		Explorer 22 satellite navigation technology satellites	NDVI (i	remote sensing)
	altimeters		NAVSTAR satellites		ed June 2001)
	approach indicators		Nova satellites		normalized difference vegetation
	automatic flight control		Refsat Transit Attitude Control satellite		index
	automatic pilots automatic traffic advisory and		Transit Attitude Control Satellite	Near E	arth Asteroid Rendezvous Mission
	resolution	RT	active satellites		led March 1996)
	autonomous navigation		ATS	GS	space missions
	buoys charts		geodetic satellites LOCATES system		. asteroid missions Near Earth Asteroid Rendezvous
	Decca navigation		meteorological satellites		Mission
	display devices		military spacecraft		. flyby missions
	distance measuring equipment		nautical charts		Near Earth Asteroid Rendezvous
	echo sounding		passive satellites		Mission

negative resistance devices Comet Rendezvous Asteroid Flyby appeared fuzzy when viewed through early telethermal expansion Mission Earth orbits celestial bodies negative conductance EROS asteroid . nebulae avalanche diodes near Earth objects . . Cassiopeia A gallium arsenides rendezvous trajectories Crab nebula Gunn effect Rosetta mission . . Gum nebula tunnel diodes . . H I regions negative diff mobility semiconductors near Earth objects . . H II regions (added November 2001) USE NDM semiconductor devices . . Herbig-Haro objects Asteroids, meteoroids, or short-period . . Orion nebula negative electron affinity comets having trajectories that intersect the planetary nebulae orbit of Earth or that are within 0. 3 Astronomical . . reflection nebulae GS affinity Units (AU) of Earth. Asteroids and comets with . solar nebula negative electron affinity perihelion distance less than 1. 3 AU. galaxies electron affinity NEO (astronomy) interstellar matter electron emission GS celestial bodies irregular galaxies gallium arsenides near Earth objects Maffei galaxies photoelectric emission asteroid collisions Magellanic clouds semiconductors (materials) North Polar Spur (astronomy) asteroids Ophiuchi clouds negative feedback cometary collisions Opik theory solar corona Feedback which results in decreasing comets Earth orbital environments meteorite collisions star formation UF degenerative feedback meteorites supernovae GS feedback Near Earth Asteroid Rendezvous . negative feedback Mission neck (anatomy) RT automatic control space debris GS anatomy damping neck (anatomy) near fields degeneration RT vertebrae feedback control electromagnetic fields GS nonlinear feedback near fields necrosis oscillators antenna radiation patterns (added October 2000) antennas transfer functions DEF One of the two mechanisms by which electromagnetic radiation 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 negative ions far fields lons singly or in groups which acquire laser arrays radio equipment trons. with severe cellular trauma. It is characterized sidelobes GS ions by mitochondrial swelling, nuclear flocculation, uncontrolled cell lysis, and ultimately cell death. In general, cell or tissue death caused by dis-. negative ions near infrared radiation . anions (0. 75 TO 3 MICRONS) electromagnetic radiation free radicals ease or injury.

UF pathological cell death
GS pathological effects
. necrosis . infrared radiation ionic mobility . . near infrared radiation far infrared radiation nitrogen ions oxygen ions infrared photometry plasma physics apoptosis cells (biology) RT light (visible radiation) ∞ radiation negative matter cytology radiative heat transfer (added August 1991) death radiative transfer (NOT ANTIMATTER)
A hypothetical form of matter whose diseases terrestrial radiation hypoxia thermal radiation injuries myocardial infarction near ultraviolet radiation pathology (2000 TO 4000 ANGSTROMS) electromagnetic radiation antimatter tissues (biology) matter (physics)
. negative matter
antimatter GS GS . ultraviolet radiation needle bearings . near ultraviolet radiation GS bearings far ultraviolet radiation condensed matter physics . antifriction bearings light (visible radiation) extraterrestrial matter . . roller bearings ∞ radiation mass needle bearings RT ball bearings negative matter propulsion (added August 1991) near wakes GS wakes needles . near wakes propulsion RT dendritic crystals spacecraft propulsion sewing nearshore water negative matter propulsion single crystals GS water interplanetary flight surgical instruments . nearshore water interstellar travel . coastal water matter-antimatter propulsion needs (data system) UF NASA End-to-End Data System RT marine environments rocket engines oceans GS data systems sea water negative resistance circuits vadose water needs (data system) circuits end-to-end data systems . negative resistance circuits water depth wetlands needs (data system)

#### Nebraska

nations GS

. 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 neel temperature

RT

temperature GS

systems

neel temperature

data acquisition

data processing

VSAT (network)

satellite instruments

antiferromagnetism magnetic permeability phase transformations specific heat

the amplification. Used for degenerative feed-

negative charges by gaining one or more elec-

active-gravitational, passive-gravitational, inertial, and rest mass are opposite in sign to normal, positive matter. Negative matter is not

RT ∞ resistance

resonant tunneling diodes tunnel diodes

negative resistance devices

negative resistance devices

resonant tunneling diodes aluminum gallium arsenides gallium arsenides Gunn diodes Gunn effect MIM diodes negatrons

parametric amplifiers

	Ramsauer effect		rare earth elements		cloud physics
۰	o resistance				clouds (meteorology)
	resonant tunneling	neon			convection clouds
		GS	chemical elements		meteorological instruments
negatro	ons		. rare gases		meteorology
DEF	Negative electrons. Sometimes short-		neon		nephelometers
ened to	negatons.		liquid neon		precipitation (meteorology)
GS	particles		neon isotopes		synoptic measurement
	. charged particles		gases		synoptic meteorology
	energetic particles		. rare gases		weather forecasting
	electrons		neon		
	negatrons		liquid neon	nepheli	ine
	. corpuscular radiation		neon isotopes	GS	aluminum compounds
	energetic particles				. nepheline
	electrons	neon 19	9		minerals
	negatrons	USE	neon isotopes		. nepheline
	. elementary particles				potassium compounds
	fermions	neon is	otopes		nepheline
	leptons	UF	neon 19		silicon compounds
	electrons	GS	chemical elements		. silicates
			. nuclides		nepheline
рΤ	negatrons		isotopes		sodium compounds
RT	negative resistance devices		neon isotopes		
			. rare gases	RT	. nepheline nephelite
	tal (trademark)		neon	ΠI	перпеше
GS	drugs			mambali	to.
	. Nembutal (trademark)		neon isotopes	nepheli	
	ketones		gases	GS	aluminum compounds
	. Nembutal (trademark)		. rare gases		nephelite
	sodium compounds		neon		chalcogenides
	. Nembutal (trademark)		neon isotopes		. oxides
RT	pentobarbital sodium		_		silicon oxides
	F	neopen	tane		nephelite
Nomoci	is (star)	GS	organic compounds		minerals
UF	solar companion star		. hydrocarbons		. nephelite
GS	celestial bodies		aliphatic hydrocarbons		silicon compounds
GS			alkanes		. silicon oxides
	. stars		pentanes		nephelite
	double stars		neopentane	RT	nepheline
	binary stars		Hoopontano	п	перпеште
	companion stars	neoplas	eme	nonhol	ometers
	Nemesis (star)	GS	diseases		
RT	dwarf stars	as			General name for instruments which
	extinction		. tumors		e, at more than one angle, the scattering
	Oort cloud		neoplasms		of particles suspended in a medium.
	solar neighborhood		cancer		ents for chemical analysis by measuring
	stellar orbits		leukemias	the light	t scattering properties of a suspension.
	stellar systems	RT	carcinogens	GS	measuring instruments
	Stellar Systems		cysts		. optical measuring instruments
NEO (a	atranamı ()		metastasis		nephelometers
	stronomy)		tumor suppressor genes		optical equipment
	ed November 2001)		tumor suppressor proteins		. optical measuring instruments
USE	near Earth objects				nephelometers
		neoprer	nes	RT	nephanalysis
neodyn	nium	UŚE	chloroprene resins		optical measurement
GS	chemical elements				photometers
	. rare earth elements	neotect	onics		priotometers
	neodymium		ed May 2002)	nonhrit	io
	metals		Study of the most recent crustal move-	nephrit	
	. rare earth elements		and structures of the Earth or other	GS	diseases
	neodymium				. kidney diseases
RT	didymium		al planets.		nephritis
111	didyffilaffi	GS	geology	RT	bacterial diseases
naadun	nium allava		. tectonics		
	<b>nium alloys</b> alloys		neotectonics		e (planet)
us	•	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)
	nium compounds		subduction (geology)	RT	Galatea
GS	rare earth compounds				Larissa
	. neodymium compounds	neovaso	cularization		Naiad
RT o	o chemical compounds		ed June 2004)		Neptune atmosphere
۰	o metal compounds	,	angiogenesis		Neptune satellites
	•	002	anglogonoolo		Nereid
neodyn	nium isotopes	Nepal			Proteus
GS	chemical elements	GS	nations		
ao	. nuclides	GS			Triton
		DT	. Nepal		Voyager 2 spacecraft
	isotopes	RT	Asia		
	neodymium isotopes	-			e atmosphere
	. rare earth elements	nephan			The atmosphere of the planet Neptune
	neodymium isotopes		A type of analysis using satellite cloud		s primarily composed of hydrogen and
		pictures	to study the relationship between cloud	methan	
	metals		n and starm avatama	GS	environments
	metals . rare earth elements	formation	n and storm systems.		
			Alpine meteorology		. extraterrestrial environments
	. rare earth elements				. extraterrestrial environments planetary environments
neodvn	. rare earth elements neodymium isotopes		Alpine meteorology anvil clouds		planetary environments
	. rare earth elements neodymium isotopes nium lasers		Alpine meteorology anvil clouds Atmospheric Cloud Physics Lab		planetary environments planetary atmospheres
neodyn GS	. rare earth elements neodymium isotopes nium lasers stimulated emission devices		Alpine meteorology anvil clouds Atmospheric Cloud Physics Lab (Spacelab)	рт	. planetary environments planetary atmospheres Neptune atmosphere
	. rare earth elements neodymium isotopes nium lasers stimulated emission devices . lasers		Alpine meteorology anvil clouds Atmospheric Cloud Physics Lab (Spacelab) cap clouds	RT	planetary environments planetary atmospheres Neptune atmosphere aerospace environments
GŚ	. rare earth elements neodymium isotopes nium lasers stimulated emission devices . lasers neodymium lasers		Alpine meteorology anvil clouds Atmospheric Cloud Physics Lab (Spacelab) cap clouds chemical analysis		planetary environments planetary atmospheres Neptune atmosphere aerospace environments atmospheres
	. rare earth elements neodymium isotopes  nium lasers stimulated emission devices . lasers neodymium lasers coherent light		Alpine meteorology anvil clouds Atmospheric Cloud Physics Lab (Spacelab) cap clouds chemical analysis cirrocumulus clouds		planetary environments planetary atmospheres Neptune atmosphere aerospace environments atmospheres gas giant planets
GŚ	. rare earth elements neodymium isotopes nium lasers stimulated emission devices . lasers neodymium lasers		Alpine meteorology anvil clouds Atmospheric Cloud Physics Lab (Spacelab) cap clouds chemical analysis		planetary environments planetary atmospheres Neptune atmosphere aerospace environments atmospheres

Neptune (planet) Netherlands anatomy planetary ionospheres . nervous system ∞ nets . . nerves (USE OF A MORE SPECIFIC TERM IS RECOMMENDED -- CONSULT THE TERMS LISTED BELOW) ... nerve fibers SN Neptune satellites axons (added August 1989) electrophysiology RT coordinates GS celestial bodies myelin sheath distribution functions . natural satellites neurons geodetic coordinates .. Neptune satellites graph theory . . . Galatea Kirchhoff law of networks nerves . . . Larissa netting (materials/structures) anatomy GS . . . Naiad . nervous system networks . . . Nereid Petri nets . . nerves ... Proteus structured grids (mathematics) . . . ganglia . . Triton superposition (mathematics) . myelin sheath RT Neptune (planet) topology . . . nerve fibers trees (mathematics) oculomotor nerves neptunium carotid sinus body GS chemical elements netting (materials/structures) carotid sinus reflex . actinide series (added July 1995) dendrites . . transuranium elements RT camouflage His bundle . . . neptunium coverings myelin . . . . neptunium isotopes crosslinking neuritis . nuclides crystal growth neurons . . isotopes fibers sciatic region . . . radioactive isotopes filament winding synapses .... transuranium elements laminates . . . . . neptunium molecular chains . . . . . neptunium isotopes nervous system metals vasomotor nervous system parachute fabrics anatomy . actinide series webs (sheets) . . transuranium elements . nervous system . . . neptunium . afferent nervous systems network analysis . . autonomic nervous system . . . . neptunium isotopes Tellegen theory . . . sympathetic nervous system network analysis . . central nervous system neptunium compounds . critical path method actinide series compounds . . . brain . sneak circuit analysis . . . . brain stem neptunium compounds RT ∞ analyzing . . . . cerebellum RT ∞ chemical compounds circuits . . . . cerebral ventricles ∞ metal compounds data flow analysis . . . . cerebrum distributed parameter systems neptunium isotopes . . . . . cerebral cortex duality principle GS chemical elements . occipital lobes electric terminals . actinide series diencephalon equivalent circuits . . . hypothalamus . . transuranium elements Foster theory . . . neptunium . pineal gland . thalamus gyrators .... neptunium isotopes hydraulic equipment . nuclides . hippocampus insertion spinal cord . . isotopes Kirchhoff law of networks . . . radioactive isotopes . . efferent nervous systems LC circuits . . . . transuranium elements . . nerves ∞ 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 dendrites .... neptunium isotopes electrophysiology network control homeostasis The management of acquisition, rout-Nereid myelin ing, and switching primarily in satellite commu-(added August 1989) neurasthenia nication. celestial bodies neuritis RT communication networks . natural satellites neuroglia communication satellites . . Neptune satellites neurons computer networks . Nereid neuropsychiatry ∞ control Neptune (planet) neurotransmitters local area networks proprioceptors packet switching Nernst generators psychopharmacology satellite networks USE thermomagnetic cooling sense organs transmission efficiency synapses Nernst heat theorem ∞ systems network synthesis USE Nernst-Ettingshausen effect Tellegen theory communication theory Netherlands Nernst-Ettingshausen effect equivalent circuits UF Holland Nernst heat theorem hydraulic equipment GS nations Kirchhoff law of networks galvanomagnetic effects Netherlands Nernst-Ettingshausen effect LC circuits RT Astronomical Netherlands Satellite RT ∞ effects networks Europe temperature effects RC circuits Netherlands space program thermomagnetic effects Richards theorem Surinam RL circuits NERVA (engine) RLC circuits Netherlands space program USE nuclear engine for rocket vehicles superposition (mathematics) (added March 1989) switching theory programs nerve fibers ∞ synthesis . space programs (added August 2004) topology Slender processes of neurons, includ-. . European space programs ... Netherlands space program
Astronomical Netherlands Satellite ing the axons and their glial envelopes ( myelin networks

Infrared Astronomy Satellite

sheath). Nerve fibers conduct nerve impulses to

and from the central nervous system.

GS

networks

. belief networks

# Neumann problem

	. communication networks	RT	bionics		fear of flying
	Aloha system	neuritis			psychoses
	Deep Space Network internets	GS	diseases	neuros	nora
		ao	. neuritis	GS	plants (botany)
	ARPA computer network World Wide Web	RT	nerves	as	. fungi
	Iridium network	• • • •	nervous system		neurospora
	local area networks		,	RT	genetics
	NASCOM network	neurob			
	VSAT (network)	GS	cells (biology)		c depression
	wide area networks		. neurons	GS	neuroses
	. computer networks	RT	<b>neuroblasts</b> embryology	DT	. neurotic depression
	internets	111	embryology	nı °	∞ depression     psychotic depression
	ARPA computer network World Wide Web	neurog	lia		psycholic depression
	client server systems	GS	tissues (biology)	neurotr	ransmitters
	local area networks		neuroglia	DEF	Chemical substances secreted by the
	wide area networks	RT	brain		I ends of axons, which stimulate a
	. defense communications system		cells (biology) ganglia		fiber contraction or an impulse in other
	(DCS)		nervous system	neurons GS	neurotransmitters
	. electric networks		spinal cord	do	. acetylcholine
	. iterative networks . neural nets				. vasopressins
	. Orion (radio interferometry network)	neurolo		RT	angiotensins
	. Petri nets	DEF .	The study of the anatomy, physiology,		axons
	. quadrupole networks		hology of the nervous system. Used for		catecholamine
	. satellite networks	neuroso UF	neuroscience		cells (biology)
	Argos system	GS	medical science		dopamine
	satellite constellations	ao	. neurology		epinephrine
	Constellation-X	RT	brain		nervous system neuromuscular transmission
	Iridium network VSAT (network)		chemical defense		norepinephrine
	. tracking networks		electrophysiology		synapses
	Deep Space Network		life sciences		., .,
	Global Tracking Network		neuropsychiatry	neurotr	•
	manned space flight network		thresholds (perception)	GS	tropism
	MATTS (systems)	neurom	nuscular transmission		. neurotropism
	polystation doppler tracking system	RT	acetylcholine	neutral	atmospheres
	radar networks		bioelectricity		∞ atmospheres
	space detection and tracking system		cholinesterase		neutral gases
	Space Flight Tracking and Data		neurotransmitters		3
	Network		peripheral nervous system	neutral	
	STDN (network)		synapses		Atoms in which the number of elec-
RT	data links	neuron	transmission		urrounding the nucleus equals the num-
	educational television	USE	bioelectricity		protons in the nucleus resulting in no net
	gravimetry			electric GS	
	ground stations	neuron		GS	atoms . neutral atoms
00	ground stations information systems	neuron GS	cells (biology)		atoms
∞	ground stations information systems nets		cells (biology) . neurons	GS RT	atoms . neutral atoms atomic beams charge distribution
œ	ground stations information systems		cells (biology)	GS RT	atoms . neutral atoms atomic beams charge distribution ⇒ elements
00	ground stations information systems nets network synthesis		cells (biology) . neurons axons	GS RT	atoms . neutral atoms atomic beams charge distribution ∞ elements H I regions
00	ground stations information systems nets network synthesis protocol (computers)		cells (biology) . neurons axons dendrites	GS RT	atoms . neutral atoms atomic beams charge distribution ∞ elements H I regions neutral beams
	ground stations information systems nets network synthesis protocol (computers) telecommunication	GS	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin	GS RT	atoms . neutral atoms atomic beams charge distribution ∞ elements H I regions
Neumar	ground stations information systems nets network synthesis protocol (computers) telecommunication	GS	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers	GS RT	atoms . neutral atoms atomic beams charge distribution ∞ elements H I regions neutral beams
Neumar	ground stations information systems nets network synthesis protocol (computers) telecommunication	GS	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers nerves	GS RT	atoms . neutral atoms atomic beams charge distribution elements H I regions neutral beams neutral gases
Neumar	ground stations information systems nets network synthesis protocol (computers) telecommunication  in problem analysis (mathematics) . real variables . Neumann problem	GS	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers nerves nervous system	GS RT ° neutral	atoms . neutral atoms atomic beams charge distribution ⇒ elements H I regions neutral beams neutral gases  beams beams beams (radiation) . particle beams
Neumar	ground stations information systems nets network synthesis protocol (computers) telecommunication  in problem analysis (mathematics) . real variables . Neumann problem boundary value problems	GS	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers nerves nervous system synapses	GS RT ° neutral	atoms . neutral atoms atomic beams charge distribution  ∞ elements H I regions neutral beams neutral gases  beams beams beams (radiation) . particle beams . neutral beams
<b>Neumar</b> GS	ground stations information systems nets network synthesis protocol (computers) telecommunication  In problem analysis (mathematics) . real variables . Neumann problem boundary value problems . Neumann problem	GS RT	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers nerves nervous system synapses syncoders	GS RT ° neutral	atoms . neutral atoms atomic beams charge distribution elements H I regions neutral beams neutral gases  beams beams beams (radiation) . particle beams . neutral beams . neutral beams
Neumar	ground stations information systems nets nets network synthesis protocol (computers) telecommunication  In problem analysis (mathematics) . real variables . Neumann problem boundary value problems . Neumann problem differential equations	GS RT neurop	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers nerves nervous system synapses syncoders hysiology	GS RT • neutral GS	atoms . neutral atoms atomic beams charge distribution elements H I regions neutral beams neutral gases  beams beams (radiation) . particle beams . neutral beams . neutral beams . neutral beams . neutron beams
<b>Neumar</b> GS RT	ground stations information systems nets nets network synthesis protocol (computers) telecommunication  in problem analysis (mathematics) . real variables . Neumann problem boundary value problems . Neumann problem differential equations partial differential equations	GS RT	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers nerves nervous system synapses syncoders hysiology physiology	GS RT ° neutral	atoms . neutral atoms atomic beams charge distribution elements H I regions neutral beams neutral gases  beams beams (radiation) . particle beams neutral beams neutron beams atomic beams
<b>Neumar</b> GS RT	ground stations information systems nets nets network synthesis protocol (computers) telecommunication  In problem analysis (mathematics) . real variables . Neumann problem boundary value problems . Neumann problem differential equations	RT neurop	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers nerves nerveus system synapses syncoders  hysiology physiology . neurophysiology	GS RT • neutral GS	atoms . neutral atoms atomic beams charge distribution elements H I regions neutral beams neutral gases  beams beams (radiation) . particle beams . neutral beams . neutral beams . neutral beams . neutron beams
Neumar GS RT	ground stations information systems nets network synthesis protocol (computers) telecommunication  In problem analysis (mathematics) . real variables . Neumann problem boundary value problems . Neumann problem differential equations partial differential equations problems	GS RT neurop	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers nerves nerves nervous system synapses syncoders  hysiology physiology neurophysiology dopamine	GS RT • neutral GS	atoms . neutral atoms atomic beams charge distribution elements H I regions neutral beams neutral gases  beams beams (radiation) . particle beams neutral beams neutral beams atomic beams beam injection
Neumar GS RT ∞	ground stations information systems nets network synthesis protocol (computers) telecommunication  in problem analysis (mathematics) . real variables . Neumann problem boundary value problems . Neumann problem differential equations partial differential equations problems	RT neurop	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers nerves nervous system synapses syncoders hysiology physiology neurophysiology dopamine ganglia	GS RT • neutral GS	atoms . neutral atoms atomic beams charge distribution elements H I regions neutral beams neutral gases  beams beams (radiation) . particle beams neutral beams neutral beams atomic beams beam injection beam neutralization neutral atoms particles
Neumar GS RT ∞	ground stations information systems nets network synthesis protocol (computers) telecommunication  In problem analysis (mathematics) . real variables . Neumann problem boundary value problems . Neumann problem differential equations partial differential equations problems  Iets networks	RT neurop	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers nerves nerves nervous system synapses syncoders  hysiology physiology neurophysiology dopamine	GS RT • neutral GS	atoms . neutral atoms atomic beams charge distribution elements H I regions neutral beams neutral gases  beams beams (radiation) . particle beams neutral beams neutral beams beam injection beam neutralization neutral atoms
Neumar GS RT « neural r	ground stations information systems nets network synthesis protocol (computers) telecommunication  In problem analysis (mathematics) . real variables . Neumann problem boundary value problems . Neumann problem differential equations partial differential equations problems  lets networks . neural nets	RT neurop	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers nerves nervous system synapses syncoders  hysiology physiology . neurophysiology dopamine ganglia information processing (biology) ion channels (biology) ontogeny	GS RT • neutral GS	atoms . neutral atoms atomic beams charge distribution elements H I regions neutral beams neutral gases  beams beams (radiation) . particle beams neutral beams neutron beams atomic beams beam injection beam neutralization neutral atoms particles pion beams
Neumar GS RT « neural r	ground stations information systems nets network synthesis protocol (computers) telecommunication  In problem analysis (mathematics) . real variables . Neumann problem boundary value problems . Neumann problem differential equations partial differential equations problems  Iets networks	RT  neurop GS RT	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers nerves nervous system synapses syncoders hysiology physiology . neurophysiology dopamine ganglia information processing (biology) ontogeny psychotropic drugs	GS RT neutral GS RT	atoms . neutral atoms atomic beams charge distribution elements H I regions neutral beams neutral gases  beams beams (radiation) . particle beams neutral beams molecular beams neutron beams atomic beams beam injection beam neutral atoms particles pion beams buoyancy simulation
Neumar GS RT « neural r	ground stations information systems nets network synthesis protocol (computers) telecommunication  in problem analysis (mathematics) . real variables . Neumann problem boundary value problems . Neumann problem differential equations partial differential equations problems  iets networks . neural nets associative memory backpropagation (artificial intelligence) belief networks	RT  neurop GS RT	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers nerves nervous system synapses syncoders  hysiology physiology . neurophysiology dopamine ganglia information processing (biology) ion channels (biology) ontogeny	GS RT • neutral GS	atoms . neutral atoms atomic beams charge distribution elements H I regions neutral beams neutral gases  beams beams (radiation) . particle beams neutral beams neutral beams beam injection beam neutralization neutral atoms particles pion beams  buoyancy simulation environmental tests
Neumar GS RT « neural r	ground stations information systems nets nets network synthesis protocol (computers) telecommunication  In problem analysis (mathematics) . real variables . Neumann problem boundary value problems . Neumann problem differential equations partial differential equations problems  In problem to problem differential equations partial differential equations problems  In problem differential equations proble	RT  neurop GS RT	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers nerves nervous system synapses syncoders  hysiology physiology . neurophysiology dopamine ganglia information processing (biology) ion channels (biology) ontogeny psychotropic drugs science	GS RT neutral GS RT	atoms . neutral atoms atomic beams charge distribution elements H I regions neutral beams neutral gases  beams beams (radiation) . particle beams neutral beams molecular beams neutron beams atomic beams beam injection beam neutral atoms particles pion beams buoyancy simulation
Neumar GS RT « neural r	ground stations information systems nets nets network synthesis protocol (computers) telecommunication  In problem analysis (mathematics) . real variables . Neumann problem boundary value problems . Neumann problem differential equations partial differential equations problems  lets networks . neural nets associative memory backpropagation (artificial intelligence) belief networks cybernetics evolvable hardware	RT  neurop GS RT	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers nerves nervous system synapses syncoders hysiology physiology . neurophysiology dopamine ganglia information processing (biology) ontogeny psychotropic drugs	GS RT neutral GS RT	atoms . neutral atoms atomic beams charge distribution elements H I regions neutral beams neutral gases  beams beams (radiation) . particle beams neutral beams neutron beams atomic beams beam injection beam neutralization neutral atoms particles pion beams  buoyancy simulation environmental tests neutral buoyancy simulation simulation
Neumar GS RT « neural r	ground stations information systems nets network synthesis protocol (computers) telecommunication  in problem analysis (mathematics) . real variables . Neumann problem boundary value problems . Neumann problem differential equations partial differential equations problems  iets networks . neural nets associative memory backpropagation (artificial intelligence) belief networks cybernetics evolvable hardware Gabor filters	RT  neurop GS RT	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers nerves nervous system synapses syncoders  hysiology physiology neurophysiology dopamine ganglia information processing (biology) ion channels (biology) ontogeny psychotropic drugs science sychiatry	GS RT neutral GS RT	atoms . neutral atoms atomic beams charge distribution elements H I regions neutral beams neutral gases  beams beams (radiation) . particle beams neutral beams neutral beams beam injection beam injection beam neutralization neutral atoms particles pion beams  buoyancy simulation environmental tests neutral buoyancy simulation simulation . environment simulation
Neumar GS RT « neural r	ground stations information systems nets network synthesis protocol (computers) telecommunication  In problem analysis (mathematics) . real variables . Neumann problem boundary value problems . Neumann problem differential equations partial differential equations problems  Interverse sets ets networks . neural nets associative memory backpropagation (artificial intelligence) belief networks cybernetics evolvable hardware Gabor filters genetic algorithms	RT  neurop GS RT  neurop GS	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers nerves nervous system synapses syncoders hysiology physiology . neurophysiology dopamine ganglia information processing (biology) ion channels (biology) ontogeny psychotropic drugs science sychiatry medical science . psychiatry . neuropsychiatry	GS RT neutral GS RT	atoms . neutral atoms atomic beams charge distribution elements H I regions neutral beams neutral gases  beams beams (radiation) . particle beams neutral beams neutral beams beam injection beam neutralization neutral atoms particles pion beams  buoyancy simulation environmental tests neutral buoyancy simulation simulation . environment simulation space environment simulation
Neumar GS RT « neural r	ground stations information systems nets network synthesis protocol (computers) telecommunication  in problem analysis (mathematics) . real variables . Neumann problem boundary value problems . Neumann problem differential equations partial differential equations problems  iets networks . neural nets associative memory backpropagation (artificial intelligence) belief networks cybernetics evolvable hardware Gabor filters	neurop GS RT neurop GS	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers nerves nervous system synapses syncoders  hysiology physiology . neurophysiology dopamine ganglia information processing (biology) ion channels (biology) ontogeny psychotropic drugs science sychiatry medical science . psychiatry human behavior	GS RT neutral GS RT	atoms . neutral atoms atomic beams charge distribution elements H I regions neutral beams neutral gases  beams beams (radiation) . particle beams . neutral beams . neutral beams . neutron beams atomic beams beam injection beam neutralization neutral atoms particles pion beams  buoyancy simulation environmental tests . neutral buoyancy simulation simulation . environment simulation . space environment simulation . weightlessness simulation
Neumar GS RT « neural r	ground stations information systems nets network synthesis protocol (computers) telecommunication  In problem analysis (mathematics) . real variables . Neumann problem boundary value problems . Neumann problem differential equations partial differential equations problems  Iets networks . neural nets associative memory backpropagation (artificial intelligence) belief networks cybernetics evolvable hardware Gabor filters genetic algorithms logic circuits	neurop GS RT neurop GS	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers nerves nervous system synapses syncoders  hysiology hysiology . neurophysiology dopamine ganglia information processing (biology) ion channels (biology) ontogeny psychotropic drugs science sychiatry medical science . psychiatry human behavior medicine	RT  neutral GS  RT  neutral GS	atoms . neutral atoms atomic beams charge distribution elements H I regions neutral beams neutral gases  beams beams (radiation) . particle beams neutrol beams neutrol beams atomic beams beam injection beam neutralization neutral atoms particles pion beams  buoyancy simulation environmental tests neutral buoyancy simulation simulation space environment simulation weightlessness simulation weightlessness simulation neutral buoyancy simulation neutral buoyancy simulation weightlessness simulation neutral buoyancy simulation neutral buoyancy simulation neutral buoyancy simulation neutral buoyancy simulation
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Neumar GS RT neural r GS RT	ground stations information systems nets nets network synthesis protocol (computers) telecommunication  In problem analysis (mathematics) . real variables . Neumann problem boundary value problems . Neumann problem differential equations partial differential equations problems  Intervential equat	neurop GS RT neurop GS	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers nerves nervous system synapses syncoders  hysiology physiology physiology . neurophysiology dopamine ganglia information processing (biology) ion channels (biology) ontogeny psychotropic drugs science sychiatry medical science . psychiatry human behavior medicine mental health nervous system	RT  neutral GS  RT  neutral GS	atoms . neutral atoms atomic beams charge distribution elements H I regions neutral beams neutral gases  beams beams (radiation) . particle beams neutral beams neutral beams atomic beams beam injection beam neutralization neutral atoms particles pion beams  buoyancy simulation environmental tests . underwater tests . neutral buoyancy simulation simulation . environment simulation . space environment simulation . weightlessness simulation buoyancy . neutral buoyancy simulation . neutral buoyancy simulation . neutral buoyancy simulation . neutral buoyancy simulation
Neumar GS RT neural r GS RT	ground stations information systems nets network synthesis protocol (computers) telecommunication  In problem analysis (mathematics) . real variables . Neumann problem boundary value problems . Neumann problem differential equations partial differential equations problems  Iets networks . neural nets associative memory backpropagation (artificial intelligence) belief networks cybernetics evolvable hardware Gabor filters genetic algorithms logic circuits membership functions	neurop GS RT neurop GS	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers nerves nervous system synapses syncoders hysiology physiology neurophysiology dopamine ganglia information processing (biology) ion channels (biology) ontogeny psychotropic drugs science sychiatry medical science psychiatry neuropsychiatry human behavior medicine mental health	RT  neutral GS  RT  neutral GS	atoms . neutral atoms atomic beams charge distribution elements H I regions neutral beams neutral gases  beams beams (radiation) . particle beams neutral beams neutron beams atomic beams beam injection beam neutralization neutral atoms particles pion beams  buoyancy simulation environmental tests neutral buoyancy simulation simulation space environment simulation weightlessness simulation buoyancy space simulators weightlessness weightlessness
Neumar GS RT neural r GS RT	ground stations information systems nets network synthesis protocol (computers) telecommunication  in problem analysis (mathematics) . real variables . Neumann problem boundary value problems . Neumann problem differential equations partial differential equations problems  iets networks . neural nets associative memory backpropagation (artificial intelligence) belief networks cybernetics evolvable hardware Gabor filters genetic algorithms logic circuits membership functions	neurop GS RT neurop GS	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers nerves nervous system synapses syncoders hysiology physiology neurophysiology dopamine ganglia information processing (biology) ion channels (biology) ontogeny psychotropic drugs science sychiatry medical science psychiatry neuropsychiatry human behavior medicine mental health nervous system neurology psychotherapy	RT  neutral GS  RT  neutral GS	atoms . neutral atoms atomic beams charge distribution elements H I regions neutral beams neutral gases  beams beams (radiation) . particle beams neutral beams neutron beams atomic beams beam injection beam neutralization neutral atoms particles pion beams  buoyancy simulation environmental tests neutral buoyancy simulation simulation . environment simulation . environment simulation weightlessness simulation buoyancy space simulators weightlessness currents
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Neumar GS RT neural r GS RT	ground stations information systems nets network synthesis protocol (computers) telecommunication  In problem analysis (mathematics) . real variables . Neumann problem boundary value problems . Neumann problem differential equations partial differential equations problems  In the second of the s	neurop GS RT neurop GS	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers nerves nervous system synapses syncoders hysiology physiology neurophysiology dopamine ganglia information processing (biology) ion channels (biology) ontogeny psychotropic drugs science sychiatry medical science psychiatry neuropsychiatry human behavior medicine mental health nervous system neurology psychotherapy	neutral GS  RT  neutral GS  RT  neutral GS	atoms . neutral atoms atomic beams charge distribution elements H I regions neutral beams neutral gases  beams beams (radiation) . particle beams neutral beams neutral beams beam injection beam neutralization neutral atoms particles pion beams  buoyancy simulation environmental tests . underwater tests . neutral buoyancy simulation simulation . environment simulation . environment simulation weightlessness simulation buoyancy space simulators weightlessness  currents Weak interaction currents that carry petric charge.
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Neumar GS RT neural r GS RT	ground stations information systems nets nets network synthesis protocol (computers) telecommunication  In problem analysis (mathematics) . real variables . Neumann problem boundary value problems . Neumann problem differential equations partial differential equations problems  Interest ets networks . neural nets associative memory backpropagation (artificial intelligence) belief networks cybernetics evolvable hardware Gabor filters genetic algorithms logic circuits membership functions  Interest  Interest ets Interest Interest ets Interest Inter	neurop GS RT neurosc USE neurosc	cells (biology) . neurons . axons . dendrites . neuroblasts blood-brain barrier myelin nerve fibers nerves nervous system synapses syncoders hysiology physiology . neurophysiology dopamine ganglia information processing (biology) ion channels (biology) ontogeny psychotropic drugs science sychiatry medical science . psychiatry . neuropsychiatry human behavior medicine mental health nervous system neurology psychotherapy science neurology es	neutral GS  RT  neutral GS  RT  neutral GS	atoms . neutral atoms atomic beams charge distribution elements H I regions neutral beams neutral gases  beams beams (radiation) . particle beams neutral beams neutron beams atomic beams beam injection beam neutralization neutral atoms particles pion beams  buoyancy simulation environmental tests neutral buoyancy simulation simulation . environment simulation . space environment simulation weightlessness simulation neutral buoyancy simulation weightlessness currents  Weak interaction currents that carry exercic charge. current distribution gravitational collapse

particle interactions . stellar evolution

#### neutral gases

DEF In astronomy, gas clouds of some nebulae which have not been ionized by hot

GS

## . neutral gases

RT cosmic gases H I regions 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

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, postulated by Fermi (1934) in order to explain apparent contradictions to the law of conservation of energy in beta particle emission.

GS particles

. elementary particles

. . fermions

... leptons

.... neutrinos

. . . . solar neutrinos

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

GS activation analysis

neutron activation analysis

chemical tests

. chemical analysis

.. neutron activation analysis

mass spectrometers microanalysis qualitative analysis quantitative analysis spectroscopic analysis

#### neutron beams

GS beams (radiation) . particle beams . . neutral beams ... neutron beams nuclear radiation . neutron beams

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.

rates (per time) GS . 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.

GS imagery

. radiography

.. neutron radiography nondestructive tests

. neutron radiography

RT ∞ materials tests

## neutron scattering

UF Legendre code GS nuclear reactions . nuclear scattering . . neutron scattering

scattering . nuclear scattering

. neutron scattering RT elementary particles nuclear particles resonance scattering

## neutron sources

radiation sources GS

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

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)

celestial bodies

. stars

. . neutron stars

. . . magnetars

... pulsars . . soft gamma repeaters

degenerate matter gravitational binding energy

gravitational lenses neutral currents starquakes

supernova remnants

x rav binaries

x ray stars

#### neutron thermalization

GS energy absorption

. moderation (energy absorption)

. . thermalization (energy absorption)

. . . neutron thermalization

neutron transmutation USE nuclear reactions

## neutron transmutation doping

(added June 2003)

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

doping (materials)

transmutation

neutron transmutation doping

additives doped crystals neutron irradiation

#### neutrons

Subatomic particles with no electric charge, and with a mass of 1. 67482 times 10 to the minus 24 gram.

particles GS

. 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

baryons

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

GS 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)

RT United States

## New Guinea (island)

GS landforms

islands

. . Pacific islands

. New Guinea (island)

Papua New Guinea Torres Strait

#### **New Hampshire**

GS nations

United States

New Hampshire

RT St Lawrence Valley (North America)

#### New Haven (CT)

GS cities

New Haven (CT)

RT 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-

programs

. NASA programs

. . NASA space programs

... New Horizons mission

. space programs

. . NASA space programs

New Horizons mission

space missions . flyby missions

#### . New Horizons mission

RT 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**

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

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 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

New Zealand

## Newfoundland

GS landforms

. islands

. . Newfoundland

nations

. Canada

. . Newfoundland

#### news

RT documentation

# news media

data acquisition RT 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

#### laws . Newton pressure law

Prandtl-Meyer expansion

compressible flow laminar flow Newtonian fluids

# pressure distribution

pressure

Newton second law GS kinetics

Newton second law

laws . Newton second law conservation

**Newton Theory** GS kinetics

**Newton Theory** theoretical physics

momentum theory

. 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

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)

#### Next Generation Space Telescope USE project

## Nicaragua

GS nations

Nicaraqua

RT Central America

## Nichrome (trademark)

GS alloys

. nickel alloys

.. Nichrome (trademark)

## nickel

chemical elements

. nickel

. . nickel isotopes

metals

. transition metals

.. nickel

. . nickel isotopes

RT constantan

## nickel alloys

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

RT 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

Alkaline storage batteries in which the positive active material is nickel oxide and the negative contains cadmium.

cadmium nickel batteries

electrochemical cells

. 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

## GS nickel compounds

- . cohenite
- . nickel aluminides
- . nickel fluorides
- . nickel oxides schreibersite

RT ∞ chemical compounds

- ∞ Group 8 compounds
- ∞ metal compounds

#### nickel fluorides

halogen compounds

. 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.

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

GS plating

nickel plate

electroplating gold coatings

nickel steels Steels containing nickel as a main al-

loying element.

GS 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 bases (chemical) GS

. alkaloids . nicotinamide

nitrogen compounds

. alkaloids

. . nicotinamide . amides

. nicotinamide

organic compounds . cyclic compounds

. . heterocyclic compounds . . . alkaloids

.. nicotinamide vitamins

# . nicotinamide GS

nicotine

bases (chemical)

. alkaloids . nicotine

nitrogen compounds . alkaloids

. . nicotine organic compounds

. cyclic compounds . . heterocyclic compounds

. . . alkaloids ... nicotine

RT tobacco nicotinic acid

GS acids

. carboxylic acids . nicotinic acid

organic compounds . carboxylic acids

. . nicotinic acid . cyclic compounds

. . heterocyclic compounds

nicotinic acid vitamins

643

	. nicotinic acid	microwave equipment	Trailblazer 1 reentry vehicle
Niger		. microwave oscillators magnetrons	Nike-Apache rocket vehicle
GS	nations	nigotrons	GS rocket vehicles
БТ	Niger	. microwave tubes	. multistage rocket vehicles
RT	Africa	magnetrons <b>nigotrons</b>	. Nike rocket vehicles Nike-Apache rocket vehicle
Nigeria		oscillators	RT solid propellant rocket engines
GS	nations	. microwave oscillators	2
RT	. <b>Nigeria</b> Africa	magnetrons	Nike-Cajun rocket vehicle
	7.11.00	nigotrons	GS rocket vehicles . multistage rocket vehicles
night RT	darkening	Nihon aircraft	. Nike rocket vehicles
n i	darkness	UF NAMC aircraft GS Nihon aircraft	Nike-Cajun rocket vehicle
	daytime	. YS-11 aircraft	RT Cajun rocket vehicle solid propellant rocket engines
	diurnal variations	RT ∞ aircraft	cond proponant roomet original
	evening shadows	Nils on VO 44 singuist	Nike-Hercules missile
	sky brightness	Nihon YS-11 aircraft USE <b>YS-11 aircraft</b>	GS missiles . antiaircraft missiles
	twilight glow		. Nike-Hercules missile
night air	rglow	Nike booster rocket engines	. surface to air missiles
	nightglow	GS engines . rocket engines	Nike missiles Nike-Hercules missile
night E	laver	booster rocket engines	RT solid propellant rocket engines
	E region	Nike booster rocket engines	
	night sky	solid propellant rocket engines Nike booster rocket engines	Nike-Hydac rocket vehicle GS rocket vehicles
night F	laver	RT ∞ Nike rockets	. multistage rocket vehicles
	F region		. Nike rocket vehicles
	night sky	Nike missiles GS missiles	Nike-Hydac rocket vehicle
niaht fl	ights (aircraft)	. surface to air missiles	RT ∞ vehicles
	∘ aircraft	Nike missiles	Nike-Iroquois rocket vehicle
	approach control blind landing	Nike-Ajax missile Nike-Hercules missile	GS rocket vehicles
	darkness	Nike-Tercules missile	. multistage rocket vehicles Nike rocket vehicles
	flight instruments	RT antiaircraft missiles	Nike-Iroquois rocket vehicle
	instrument approach	antimissile missiles ∞ Nike rockets	RT ∞ vehicles
	instrument landing systems nap-of-the-earth navigation	Sentinel system	Nike-Javelin rocket vehicle
	radar	•	GS rocket vehicles
	radio beacons	Nike project GS programs	. multistage rocket vehicles
	visibility	. projects	. Nike rocket vehicles Nike-Javelin rocket vehicle
night sl		. Nike project	RT solid propellant rocket engines
115	night E layer		
UF		RT ∞ Nike rockets	sounding rockets
	night F layer		sounding rockets
GS	night F layer sky . <b>night sky</b>	Nike rocket vehicles GS rocket vehicles	sounding rockets  Nike-Tomahawk rocket vehicle
	night F layer sky . night sky airglow	Nike rocket vehicles GS rocket vehicles . multistage rocket vehicles	sounding rockets  Nike-Tomahawk rocket vehicle GS rocket vehicles . multistage rocket vehicles
GS	night F layer sky . night sky airglow auroras	Nike rocket vehicles GS rocket vehicles . multistage rocket vehicles Nike rocket vehicles	sounding rockets  Nike-Tomahawk rocket vehicle GS rocket vehicles . multistage rocket vehicles . Nike rocket vehicles
GS	night F layer sky . night sky airglow	Nike rocket vehicles GS rocket vehicles . multistage rocket vehicles	sounding rockets  Nike-Tomahawk rocket vehicle GS rocket vehicles . multistage rocket vehicles . Nike rocket vehicles Nike-Tomahawk rocket vehicle
GS	night F layer sky . night sky airglow auroras gegenschein nightglow sky brightness	Nike rocket vehicles  GS rocket vehicles . multistage rocket vehicles . Nike rocket vehicles . Nike-Apache rocket vehicle . Nike-Cajun rocket vehicle . Nike-Hydac rocket vehicle	sounding rockets  Nike-Tomahawk rocket vehicle GS rocket vehicles . multistage rocket vehicles . Nike rocket vehicles
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night vi GS RT nightglu UF GS	night F layer sky . night sky airglow auroras gegenschein nightglow sky brightness twilight glow zodiacal light sision vision . night vision dark adaptation enhanced vision image intensifiers light adaptation microchannels nap-of-the-earth navigation ow night airglow atmospheric radiation . sky radiation . sky radiation . airglow nightglow electromagnetic radiation . light (visible radiation) . sky radiation airglow nightglow biometeorology night sky radio auroras sky brightness ns electron tubes . vacuum tubes	Nike rocket vehicles GS rocket vehicles . multistage rocket vehicles . Nike rocket vehicles . Nike-Cajun rocket vehicle . Nike-Cajun rocket vehicle . Nike-Iroquois rocket vehicle . Nike-Iroquois rocket vehicle . Nike-Iroquois rocket vehicle . Nike-Javelin rocket vehicle . Nike-Tomahawk rocket vehicle . Nike-Tomahawk rocket vehicle . Nike-Tomahawk rocket vehicle . Nike-Tomahawk rocket vehicle  RT ∞ Nike rockets  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) RT Nike booster rocket engines Nike missiles Nike project Nike rocket vehicles  Nike X systems GS weapon systems . missile systems . Nike X systems RT antimissile missiles missiles surface to air missiles ∞ systems  Nike-Ajax missile . Inike-Ajax missile . Surface to air missiles . Nike-Ajax missile	Nike-Tomahawk rocket vehicle GS rocket vehicles . multistage rocket vehicles . Nike rocket vehicles . Nike rocket vehicles . Nike-Tomahawk rocket vehicle RT solid propellant rocket engines  Nike-Zeus missile GS missiles . antimissile missiles . Nike-Zeus missile . surface to air missiles . Nike missiles . Nike rocket engines  Spartan missile RT solid propellant rocket engines Spartan missile Sprint missile  nimbostratus clouds UF nimbus clouds GS clouds (meteorology) . nimbostratus clouds RT cumulonimbus clouds precipitation (meteorology) stratus clouds  Nimbus 1 satellite GS artificial satellites . Nimbus 1 satellite RT cloud photography Thor Agena launch vehicle  Nimbus 2 satellite GS artificial satellites . meteorological satellites . Nimbus 1 satellite
night vi GS RT nightglu UF GS	night F layer sky . night sky airglow auroras gegenschein nightglow sky brightness twilight glow zodiacal light sision vision . night vision dark adaptation enhanced vision image intensifiers light adaptation microchannels nap-of-the-earth navigation  ow night airglow atmospheric radiation . sky radiation . airglow . nightglow electromagnetic radiation . sky radiation	Nike rocket vehicles GS rocket vehicles . multistage rocket vehicles . Nike-rocket vehicles . Nike-Cajun rocket vehicle . Nike-Hydac rocket vehicle . Nike-Iroquois rocket vehicle . Nike-Iroquois rocket vehicle . Nike-Iromahawk rocket vehicle . Nike-Tomahawk rocket vehicle  RT ∞ Nike rockets SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) RT Nike booster rocket engines Nike missiles Nike project Nike rocket vehicles  Nike X systems GS weapon systems . missile systems . Nike X systems . Nike X systems RT antimissile missiles missiles surface to air missiles . ∞ systems  Nike-Ajax missile GS missiles . Inike-Ajax missile . Surface to air missiles . Nike-Ajax missile . Nike-Ajax missile . Nike-Ajax missile	Nike-Tomahawk rocket vehicle  GS rocket vehicles . multistage rocket vehicles . Nike rocket vehicles . Nike-Tomahawk rocket vehicle RT solid propellant rocket engines  Nike-Zeus missile  UF Zeus missile GS missiles . antimissile missiles . Nike-Zeus missile . surface to air missiles . Nike-Zeus missile RT solid propellant rocket engines Spartan missile Sprint missile Sprint missile Sprint missile  Nimbostratus clouds GS clouds (meteorology) . nimbostratus clouds RT cumulonimbus clouds Precipitation (meteorology) stratus clouds  Nimbus 1 satellite GS artificial satellites . Nimbus 1 satellite RT cloud photography Thor Agena launch vehicle  Nimbus 2 satellite GS artificial satellites

∞ oxygen compounds

#### Nimbus 3 satellite

GS artificial satellites

. meteorological satellites

. . Nimbus satellites

. . . Nimbus 3 satellite

#### Nimbus 4 satellite

GS artificial satellites

. meteorological satellites

. . Nimbus satellites

. . . Nimbus 4 satellite

#### Nimbus 5 satellite

GS artificial satellites

. meteorological satellites

. . Nimbus satellites

. . . Nimbus 5 satellite

#### Nimbus 6 satellite

GS artificial satellites

. meteorological satellites

. . Nimbus satellites

... Nimbus 6 satellite

#### Nimbus 7 satellite

DEF One in a series of meteorological satellites.

GS artificial satellites

. meteorological satellites . . Nimbus satellites

. Nimbus 7 satellite

Total Ozone Mapping Spectrometer

#### nimbus clouds

USE nimbostratus clouds

## Nimbus project

GS programs

. NASA programs

. . NASA space programs

... Nimbus project

. projects

. Nimbus project

. space programs

. . NASA space programs

... Nimbus project

cloud photography meteorological satellites satellite observation

## Nimbus satellites

GS artificial satellites

. meteorological satellites

. . Nimbus satellites

... Nimbus 1 satellite

. Nimbus 2 satellite

. . . Nimbus 3 satellite

. . . Nimbus 4 satellite . . . Nimbus 5 satellite

. . . Nimbus 6 satellite

. . Nimbus 7 satellite

RT cloud photography ESSA satellites infrared photography satellite observation

Thor Agena launch vehicle

## nimonic alloys

alloys GS

heat resistant alloys

. nimonic alloys

iron alloys nickel alloys

NIMPHE (engine)

USE hydrazine engines

# Nimrod accelerator

particle accelerators GS

Nimrod accelerator

RT ∞ accelerators

#### niobates

GS niobium compounds

. niobates

. lithium niobates

RT euxenite oxides

niobium

UF columbium

GS chemical elements

. niobium

. . niobium isotopes . . niobium 95

metals

. refractory metals

. . niobium
. . . niobium isotopes

. . niobium 95

. transition metals

. . niobium

... niobium isotopes

. . niobium 95

refractory materials

. refractory metals

. . niobium . . . niobium isotopes

. . . . niobium 95

#### niobium 95

chemical elements

. niobium

. . niobium isotopes

. . . niobium 95

. nuclides

. . isotopes

. . . niobium isotopes

.... niobium 95

... radioactive isotopes

. . . niobium 95 metals

. refractory metals

. . niobium

. . . niobium isotopes

. . niobium 95

. transition metals

. . niobium

. . . niobium isotopes

. niobium 95

refractory materials

. refractory metals . . niobium

. . . niobium isotopes

. . . . niobium 95

# niobium alloys

alloys GS

. heat resistant alloys

. . refractory metal alloys

refractory materials

. refractory metal alloys

niobium alloys RT hafnium allovs

niobium carbides carbon compounds

. carbides

. niobium carbides

niobium compounds

niobium carbides

# niobium compounds

niobium compounds . niobates

. . lithium niobates

. niobium carbides

. niobium iodides

. niobium oxides niobium stannides

 $RT \propto chemical\ compounds$ 

 ${\scriptstyle \infty \text{ Group 5B compounds}}$ ∞ metal compounds

# niobium iodides

GS halogen compounds

. halides

. . metal halides . . . niobium iodides

. iodine compounds . . iodides

. niobium iodides

niobium compounds

. niobium iodides

niobium isotopes

GS chemical elements

. niobium

. . niobium isotopes

. . . niobium 95

. nuclides

. . isotopes

... niobium isotopes

. . . niobium 95

metals

. refractory metals

. . niobium

... niobium isotopes

. niobium 95

. transition metals

. . niobium

... niobium isotopes

. niobium 95 refractory materials

. refractory metals

. . niobium

... niobium isotopes

. . . . niobium 95

niobium oxides

GS chalcogenides

. oxides . . metal oxides

. niobium oxides niobium compounds

niobium oxides

niobium stannides GS niobium compounds

. niobium stannides

tin compounds

. stannides . . niobium stannides

NIPS (system)

USF NASA Interactive Planning System

nitinol alloys DEF Shape memory alloys of titanium and

nickel. GS

alloys . nickel alloys

. nitinol alloys

. shape memory alloys . . nitinol alloys

. titanium alloys

. nitinol alloys ferroelastic materials . shape memory alloys

.. nitinol alloys

nitramine propellants

GS propellants rocket propellants . . nitramine propellants

. solid propellants nitramine propellants RT oxidizers

nitrasol explosives

GS explosives

nitrasol explosives propellants nitrasol explosives

nitrate esters

. nitrate esters . . isopropyl nitrate

propyl nitrate nitrogen compounds

nitrate esters . . isopropyl nitrate . . propyl nitrate

nitrates

GS nitrogen compounds

. nitrates . . dinitrates

. . inorganic nitrates

. . . ammonium nitrates

. . . hydrazine nitrate ... potassium nitrates

	silver nitrates		ammonium picrates		nitrogen isotopes
	sodium nitrates		polybutadiene tetranitramine		nitrogen 15
	methyl nitrate		tetryl		. nuclides
	organic nitrates	DT	trinitro compounds		isotopes
	cellulose nitrate	HI≪	chemical compounds		nitrogen isotopes
	nitroforms	nitroam	inos		nitrogen 15
	hydrazine nitroform	GS	nitrogen compounds		gases
	nitroglycerin PETN	ao	. nitroamines		. nitrogen nitrogen isotopes
			organic compounds		nitrogen 15
nitratio	n		. amines		Illuogen 13
GS	chemical reactions		nitroamines	nitroger	n 16
	. nitration			GŠ	chemical elements
RT	denitrogenation	nitrobac	oter		. nitrogen
	3	GS	microorganisms		nitrogen isotopes
nitric ad	cid		. bacteria		nitrogen 16
GS	acids		nitrobacter		. nuclides
	. nitric acid				isotopes
	nitrogen compounds	nitrober			nitrogen isotopes
	nitric acid	GS	nitrogen compounds		nitrogen 16
RT	nitrous acid		. nitro compounds		radioactive isotopes
	atala.		nitrobenzenes		nitrogen 16
nitric o			trinitrotoluene		gases
GS	chalcogenides	nitrocelli	ulose		. nitrogen
	. oxides nitrogen oxides		cellulose nitrate		nitrogen isotopes nitrogen 16
	nitric oxide	00L	Cellulose Ilitrate		mtrogen 16
	nitrogen compounds	nitroflu	oramines	nitroger	n atoms
	. nitrogen oxides	GS	halogen compounds	GS	atoms
	. nitric oxide		. fluorine compounds		. nitrogen atoms
RT	nitrosyls		fluoro compounds	RT	nitrogen
	······································		fluorine organic compounds		
nitrides			fluoroamines	nitroger	n compounds
GS	nitrogen compounds		nitrofluoramines	GŠ	nitrogen compounds
	nitrides		nitrogen compounds		. alkaloids
	boron nitrides		nitrofluoramines		atropine
	metal nitrides		organic compounds		betaines
	aluminum nitrides		. amines		caffeine
	beryllium nitrides		fluoroamines		colchicine
	gallium nitrides		nitrofluoramines		ergotamine
	tantalum nitrides		. fluorine organic compounds		hyoscine
	titanium nitrides		fluoroamines		lysergine
	zirconium nitrides		nitrofluoramines		morphine
	carbon nitrides	nitrofor	mates		nicotinamide nicotine
	oxynitrides	GS	formates		pilocarpine
RT	silicon nitrides ceramic nuclear fuels	ao	. nitroformates		reserpine
ΠI	molten salts		nitrogen compounds		strychnine
	monen sans		. nitroformates		tropyl compounds
nitridin	n		. mil oronnatoo		. amides
GS	chemical reactions	nitrofor	ms		acetanilide
ao	. nitriding	GS	esters		acetazolamide
	hardening (materials)		. organic nitrates		carbamides
	. nitriding		nitroforms		cyanamides
	heat treatment		hydrazine nitroform		formhydroxamic acid
	. nitriding		nitrogen compounds		nicotinamide
			. nitrates		oxamic acids
nitriles			organic nitrates		polyimides
GS	nitrogen compounds		nitroforms		bismaleimide
	. nitriles		hydrazine nitroform		Kapton (trademark)
	acetonitrile				succinimides
	acrylonitriles	nitroger			ureas
	polyacrylonitrile	GS	chemical elements		difluorourea
	malononitrile		. nitrogen		thioureas
	phosphonitriles succinonitrile		liquid nitrogen		thiuronium . ammonia
			nitrogen isotopes		
	organic compounds . <b>nitriles</b>		nitrogen 15		liquid ammonia
	acetonitrile		nitrogen 16 solid nitrogen		. azides (inorganic)
	acrylonitriles		gases		hydrogen azides sodium azides
	polyacrylonitrile		. nitrogen		. azides (organic)
	malononitrile		liquid nitrogen		sodium azides
	phosphonitriles		nitrogen isotopes		triaminoguanidinium azid
	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		- 45		. hydrocyanic acid
	nitromethane	nitroger			. imides
	nitropropane	GS	chemical elements		bismaleimide
	picrates		. nitrogen		phthalimides

succinimides	phosphazene	nitrogen oxides
. imines		nitric oxide
. nitrate esters	nitrogen dioxide	nitrogen dioxide
isopropyl nitrate	GS chalcogenides	nitrogen tetroxide
propyl nitrate	. oxides	nitrous oxides
. nitrates	nitrogen oxides	RT nitrosyls
dinitrates	nitrogen dioxide	nitrous acid
inorganic nitrates	nitrogen compounds	photochemical oxidants
ammonium nitrates	. nitrogen oxides	
hydrazine nitrate	nitrogen dioxide	nitrogen plasma
potassium nitrates		GS particles
silver nitrates	nitrogen fixation	. charged particles
sodium nitrates	USE nitrogenation	energetic particles
methyl nitrate		plasmas (physics)
organic nitrates	nitrogen fluorides	nitrogen plasma
cellulose nitrate	GS halogen compounds	. corpuscular radiation
nitroforms	. fluorine compounds	energetic particles
hydrazine nitroform	fluorides	plasmas (physics)
	nitrogen fluorides	nitrogen plasma
nitroglycerin PETN	. halides	
. nitric acid	fluorides	nitrogen polymers
	nitrogen fluorides	GS nitrogen compounds
. nitrides	nitrogen compounds	nitrogen polymers
boron nitrides	. nitrogen fluorides	polyacrylonitrile
metal nitrides		polybenzimidazole
aluminum nitrides	nitrogen hydrides	polybutadiene tetranitramine
beryllium nitrides	GS hydrogen compounds	Pyrrones (trademark)
gallium nitrides	. hydrides	RT ∞ polymers
tantalum nitrides	nitrogen hydrides	
titanium nitrides	amino radical	nitrogen tetroxide
zirconium nitrides	nitrogen compounds	GS chalcogenides
carbon nitrides	. nitrogen hydrides	. oxides
oxynitrides	amino radical	nitrogen oxides
silicon nitrides	RT ammonia	nitrogen tetroxide
. nitrites	hydrazoic acid	nitrogen compounds
. nitro compounds	•	. nitrogen oxides
nitrobenzenes	nitrogen ions	nitrogen tetroxide
trinitrotoluene	GS ions	RT liquid rocket propellants
nitroglycerin	. nitrogen ions	rocket oxidizers
nitroguanidine	RT negative ions	
nitromethane	nitrogen	nitrogenation
nitropropane		UF nitrogen fixation
picrates	nitrogen isotopes	GS chemical reactions
ammonium picrates	GS chemical elements	. nitrogenation
polybutadiene tetranitramine	. nitrogen	RT leguminous plants
tetryl	nitrogen isotopes	lightning
trinitro compounds	nitrogen 15	nitrogen
. nitroamines	nitrogen 16	Tillogen
. nitrofluoramines	. nuclides	nitroglycerin
. nitroformates	isotopes	GS esters
. nitrogen fluorides	nitrogen isotopes	
. nitrogen hydrides	nitrogen 15	. organic nitrates
amino radical		nitroglycerin
. nitrogen oxides	nitrogen 16	nitrogen compounds
nitric oxide	gases . nitrogen	. nitrates
	•	organic nitrates
nitrogen dioxide	nitrogen isotopes	nitroglycerin
nitrogen tetroxide	nitrogen 15	. nitro compounas
nitrous oxides	nitrogen 16	nitroglycerin
. nitrogen polymers	. 10 1	RT double base propellants
. polyacrylonitrile	nitrogen lasers	double base rocket propellants
polybenzimidazole	DEF Stimulated emission devices in which	
Landing and the second of the second		dynamite
polybutadiene tetranitramine	the nitrogen molecule is the lasing medium.	explosives
Pyrrones (trademark)	the nitrogen molecule is the lasing medium.  GS stimulated emission devices	explosives glycerides
Pyrrones (trademark) . nitrosamine	the nitrogen molecule is the lasing medium. GS stimulated emission devices . lasers	explosives
Pyrrones (trademark) . nitrosamine . nitroso compounds	the nitrogen molecule is the lasing medium.  GS stimulated emission devices . lasers gas lasers	explosives glycerides glycerols
Pyrrones (trademark) . nitrosamine . nitroso compounds nitrosyls	the nitrogen molecule is the lasing medium. GS stimulated emission devices . lasers . gas lasers nitrogen lasers	explosives glycerides glycerols nitroguanidine
Pyrrones (trademark) . nitrosamine . nitroso compounds . nitrosyls nitrosyl chlorides	the nitrogen molecule is the lasing medium. GS stimulated emission devices . lasers gas lasers nitrogen lasers RT lasing	explosives glycerides glycerols nitroguanidine UF HBNQ
Pyrrones (trademark) . nitrosamine . nitroso compounds nitrosyls nitrosyl chlorides . nitroxychlorides	the nitrogen molecule is the lasing medium.  GS stimulated emission devices . lasers gas lasers nitrogen lasers  RT lasing nitrogen	explosives glycerides glycerols  nitroguanidine UF HBNQ GS nitrogen compounds
Pyrrones (trademark) . nitrosamine . nitroso compounds nitrosyls nitrosyl chlorides . nitroxychlorides . nitryl chlorides	the nitrogen molecule is the lasing medium. GS stimulated emission devices . lasers gas lasers nitrogen lasers RT lasing	explosives glycerides glycerols  nitroguanidine UF HBNQ GS nitrogen compounds . nitro compounds
. Pyrrones (trademark) . nitrosamine . nitroso compounds . nitrosyls nitrosyl chlorides . nitroxychlorides . nitryl chlorides . nitryl fluorides	the nitrogen molecule is the lasing medium.  GS stimulated emission devices . lasers . gas lasers . <b>nitrogen lasers</b> RT lasing nitrogen population inversion pulsed lasers	explosives glycerides glycerols  nitroguanidine UF HBNQ GS nitrogen compounds . nitro compounds . nitroguanidine
Pyrrones (trademark) . nitrosamine . nitroso compounds nitrosyls nitrosyl chlorides . nitroxychlorides . nitryl chlorides	the nitrogen molecule is the lasing medium.  GS stimulated emission devices . lasers gas lasers nitrogen lasers  RT lasing nitrogen population inversion	explosives glycerides glycerols  nitroguanidine UF HBNQ GS nitrogen compounds . nitro compounds
. Pyrrones (trademark) . nitrosamine . nitroso compounds . nitrosyls nitrosyl chlorides . nitroxychlorides . nitryl chlorides . nitryl fluorides	the nitrogen molecule is the lasing medium.  GS stimulated emission devices . lasers . gas lasers . <b>nitrogen lasers</b> RT lasing nitrogen population inversion pulsed lasers	explosives glycerides glycerols  nitroguanidine UF HBNQ GS nitrogen compounds . nitro compounds . nitroguanidine
. Pyrrones (trademark) . nitrosamine . nitroso compounds . nitrosyls nitrosyl chlorides . nitroxychlorides . nitry chlorides . nitryl chlorides . nitryl fluorides . quinoline	the nitrogen molecule is the lasing medium.  GS stimulated emission devices . lasers . gas lasers . <b>nitrogen lasers</b> RT lasing nitrogen population inversion pulsed lasers	explosives glycerides glycerols  nitroguanidine UF HBNQ GS nitrogen compounds . nitro compounds . nitroguanidine RT explosives
. Pyrrones (trademark) . nitrosamine . nitroso compounds . nitrosyls nitrosyl chlorides . nitroxychlorides . nitryl chlorides . nitryl fluorides . quinoline . thiazine (trademark)	the nitrogen molecule is the lasing medium.  GS stimulated emission devices . lasers gas lasers nitrogen lasers  RT lasing nitrogen population inversion pulsed lasers ultraviolet lasers	explosives glycerides glycerols  nitroguanidine UF HBNQ GS nitrogen compounds . nitro compounds . nitroguanidine RT explosives
. Pyrrones (trademark) . nitrosamine . nitroso compounds . nitrosyls nitrosyl chlorides . nitroxychlorides . nitryl chlorides . nitryl fluorides . quinoline . thiazine (trademark) . thymine	the nitrogen molecule is the lasing medium.  GS stimulated emission devices . lasers gas lasers nitrogen lasers  RT lasing nitrogen population inversion pulsed lasers ultraviolet lasers  nitrogen metabolism	explosives glycerides glycerols  nitroguanidine UF HBNQ GS nitrogen compounds . nitro compounds . nitroguanidine RT explosives solid propellants
. Pyrrones (trademark) . nitrosamine . nitroso compounds . nitrosyls nitrosyl chlorides . nitroxychlorides . nitryl chlorides . nitryl fluorides . nitryl fluorides . quinoline . thiazine (trademark) . thymine . trinitramine	the nitrogen molecule is the lasing medium.  GS stimulated emission devices . lasers gas lasers nitrogen lasers  RT lasing nitrogen population inversion pulsed lasers ultraviolet lasers  nitrogen metabolism GS metabolism	explosives glycerides glycerols  nitroguanidine UF HBNQ GS nitrogen compounds . nitro compounds . nitroguanidine RT explosives solid propellants
. Pyrrones (trademark) . nitrosamine . nitroso compounds . nitrosyls nitrosyl chlorides . nitroxychlorides . nitryl chlorides . nitryl fluorides . quinoline . thiazine (trademark) . thymine . trinitramine . tryptophan	the nitrogen molecule is the lasing medium.  GS stimulated emission devices . lasers gas lasers nitrogen lasers  RT lasing nitrogen population inversion pulsed lasers ultraviolet lasers  nitrogen metabolism GS metabolism . nitrogen metabolism RT biochemistry	explosives glycerides glycerols  nitroguanidine UF HBNQ GS nitrogen compounds . nitro compounds . nitroguanidine RT explosives solid propellants  nitrolysis GS chemical reactions . nitrolysis
. Pyrrones (trademark) . nitrosamine . nitroso compounds . nitrosyls nitrosyl chlorides . nitroxychlorides . nitryl chlorides . nitryl fluorides . quinoline . thiazine (trademark) . thymine . trinitramine . tryptophan . uracil . xanthines	the nitrogen molecule is the lasing medium. GS stimulated emission devices . lasers gas lasers nitrogen lasers  RT lasing nitrogen population inversion pulsed lasers ultraviolet lasers  nitrogen metabolism GS metabolism . nitrogen metabolism RT biochemistry ∞ biology	explosives glycerides glycerols  nitroguanidine UF HBNQ GS nitrogen compounds . nitro compounds . nitroguanidine RT explosives solid propellants  nitrolysis GS chemical reactions . nitrolysis decomposition
. Pyrrones (trademark) . nitrosamine . nitroso compounds . nitrosyls nitrosyl chlorides . nitroychlorides . nitryl chlorides . nitryl fluorides . quinoline . thiazine (trademark) . thymine . trinitramine . tryptophan . uracil . xanthines . caffeine	the nitrogen molecule is the lasing medium.  GS stimulated emission devices . lasers gas lasers nitrogen lasers  RT lasing nitrogen population inversion pulsed lasers ultraviolet lasers  nitrogen metabolism GS metabolism . nitrogen metabolism  RT biochemistry  biology enzymology	explosives glycerides glycerols  nitroguanidine UF HBNQ GS nitrogen compounds . nitro compounds . nitroguanidine RT explosives solid propellants  nitrolysis GS chemical reactions . nitrolysis decomposition . nitrolysis
. Pyrrones (trademark) . nitrosamine . nitroso compounds . nitrosyls nitrosyl chlorides . nitroxychlorides . nitryl chlorides . nitryl fluorides . nitryl fluorides . quinoline . thiazine (trademark) . thymine . trinitramine . tryptophan . uracil . xanthines . caffeine . guanines	the nitrogen molecule is the lasing medium. GS stimulated emission devices . lasers . gas lasers . nitrogen lasers  RT lasing nitrogen population inversion pulsed lasers ultraviolet lasers  nitrogen metabolism GS metabolism . nitrogen metabolism  RT biochemistry  biology enzymology hydrogen metabolism	explosives glycerides glycerides glycerols  nitroguanidine UF HBNQ GS nitrogen compounds . nitro compounds . nitroguanidine RT explosives solid propellants  nitrolysis GS chemical reactions . nitrolysis decomposition . nitrolysis RT cracking (chemical engineering)
. Pyrrones (trademark) . nitrosamine . nitroso compounds . nitrosyls nitrosyl chlorides . nitryl chlorides . nitryl chlorides . nitryl fluorides . nitryl fluorides . quinoline . thiazine (trademark) . thymine . trinitramine . tryptophan . uracil . xanthines . caffeine . guanines . uric acid	the nitrogen molecule is the lasing medium.  GS stimulated emission devices . lasers gas lasers nitrogen lasers  RT lasing nitrogen population inversion pulsed lasers ultraviolet lasers  nitrogen metabolism GS metabolism . nitrogen metabolism  RT biochemistry  biology enzymology	explosives glycerides glycerols  nitroguanidine UF HBNQ GS nitrogen compounds . nitro compounds . nitroguanidine RT explosives solid propellants  nitrolysis GS chemical reactions . nitrolysis decomposition . nitrolysis
. Pyrrones (trademark) . nitrosamine . nitroso compounds . nitrosyls nitrosyl chlorides . nitryl chlorides . nitryl fluorides . nitryl fluorides . quinoline . thiazine (trademark) . thymine . trinitramine . tryptophan . uracil . xanthines . caffeine . guanines . uric acid . nitriles	the nitrogen molecule is the lasing medium. GS stimulated emission devices . lasers gas lasers nitrogen lasers  RT lasing nitrogen population inversion pulsed lasers ultraviolet lasers  nitrogen metabolism GS metabolism . nitrogen metabolism  RT biochemistry ∞ biology enzymology hydrogen metabolism nutrition	explosives glycerides glycerols  nitroguanidine UF HBNQ GS nitrogen compounds . nitro compounds . nitroguanidine RT explosives solid propellants  nitrolysis GS chemical reactions . nitrolysis decomposition . nitrolysis RT cracking (chemical engineering) nitrogen
. Pyrrones (trademark) . nitrosamine . nitroso compounds . nitrosyls nitrosyl chlorides . nitroxychlorides . nitryl chlorides . nitryl fluorides . quinoline . thiazine (trademark) . thymine . trinitramine . tryptophan . uracil . xanthines . caffeine . guanines . uric acid . nitriles . acetonitrile	the nitrogen molecule is the lasing medium. GS stimulated emission devices . lasers . gas lasers . nitrogen lasers  RT lasing nitrogen population inversion pulsed lasers ultraviolet lasers  nitrogen metabolism GS metabolism . nitrogen metabolism  RT biochemistry  biology enzymology hydrogen metabolism nutrition  nitrogen oxides	explosives glycerides glycerols  nitroguanidine UF HBNQ GS nitrogen compounds . nitro compounds . nitroguanidine RT explosives solid propellants  nitrolysis GS chemical reactions . nitrolysis decomposition . nitrolysis RT cracking (chemical engineering) nitrogen
. Pyrrones (trademark) . nitrosamine . nitroso compounds . nitrosyls nitrosyl chlorides . nitryl chlorides . nitryl fluorides . nitryl fluorides . quinoline . thiazine (trademark) . thymine . trinitramine . tryptophan . uracil . xanthines . caffeine . guanines . uric acid . nitriles . acetonitrile . acrylonitriles	the nitrogen molecule is the lasing medium. GS stimulated emission devices . lasers . gas lasers . nitrogen lasers  RT lasing nitrogen population inversion pulsed lasers ultraviolet lasers  nitrogen metabolism GS metabolism . nitrogen metabolism  RT biochemistry  biology enzymology hydrogen metabolism nutrition  nitrogen oxides GS chalcogenides	explosives glycerides glycerols  nitroguanidine UF HBNQ GS nitrogen compounds . nitro compounds . nitroguanidine RT explosives solid propellants  nitrolysis GS chemical reactions . nitrolysis decomposition . nitrolysis RT cracking (chemical engineering) nitromethane GS nitrogen compounds
. Pyrrones (trademark) . nitrosamine . nitroso compounds . nitrosyls nitrosyl chlorides . nitroychlorides . nitryl chlorides . nitryl fluorides . quinoline . thiazine (trademark) . thymine . trinitramine . tryptophan . uracil . xanthines . caffeine . guanines . uric acid . nitriles . acetonitrile . acrylonitriles . polyacrylonitrile	the nitrogen molecule is the lasing medium.  GS stimulated emission devices . lasers . gas lasers . nitrogen lasers  RT lasing nitrogen population inversion pulsed lasers ultraviolet lasers  nitrogen metabolism GS metabolism . nitrogen metabolism  RT biochemistry biology enzymology hydrogen metabolism nutrition  nitrogen oxides GS chalcogenides . oxides	explosives glycerides glycerols  nitroguanidine UF HBNQ GS nitrogen compounds . nitro compounds . nitro compounds . nitroguanidine RT explosives solid propellants  nitrolysis GS chemical reactions . nitrolysis decomposition . nitrolysis RT cracking (chemical engineering) nitrogen  nitromethane GS nitrogen compounds . nitro compounds
. Pyrrones (trademark) . nitrosamine . nitroso compounds . nitrosyls nitrosyl chlorides . nitryl chlorides . nitryl fluorides . nitryl fluorides . quinoline . thiazine (trademark) . thymine . trinitramine . tryptophan . uracil . xanthines . caffeine . guanines . uric acid . nitriles . acetonitrile . acylonitriles . polyacrylonitrile . malononitrile	the nitrogen molecule is the lasing medium. GS stimulated emission devices . lasers . gas lasers . nitrogen lasers  RT lasing nitrogen population inversion pulsed lasers ultraviolet lasers  nitrogen metabolism GS metabolism . nitrogen metabolism  RT biochemistry  biology enzymology hydrogen metabolism nutrition  nitrogen oxides GS chalcogenides . oxides . nitrogen oxides	explosives glycerides glycerols  nitroguanidine UF HBNQ GS nitrogen compounds . nitro compounds . nitro compounds . nitroguanidine RT explosives solid propellants  nitrolysis GS chemical reactions . nitrolysis decomposition . nitrolysis RT cracking (chemical engineering) nitrogen  nitromethane GS nitrogen compounds . nitro compounds . nitro compounds . nitro compounds . nitromethane
. Pyrrones (trademark) . nitrosamine . nitroso compounds . nitrosyls nitrosyl chlorides . nitryl chlorides . nitryl fluorides . nitryl fluorides . quinoline . thiazine (trademark) . thymine . trinitramine . tryptophan . uracil . xanthines . caffeine . guanines . uric acid . nitriles . acetonitrile . acrylonitriles . malononitrile . malononitrile . myroso compounds . mitroso compounds . polyacrylonitrile . malononitrile . malononitrile	the nitrogen molecule is the lasing medium. GS stimulated emission devices . lasers . gas lasers . nitrogen lasers  RT lasing nitrogen population inversion pulsed lasers ultraviolet lasers  nitrogen metabolism GS metabolism . nitrogen metabolism  RT biochemistry  biology enzymology hydrogen metabolism nutrition  nitrogen oxides GS chalcogenides . oxides . nitrogen oxides nitrogen oxides nitrogen oxides nitric oxide	explosives glycerides glycerols  nitroguanidine UF HBNQ GS nitrogen compounds . nitro compounds . nitroguanidine RT explosives solid propellants  nitrolysis GS chemical reactions . nitrolysis decomposition . nitrolysis RT cracking (chemical engineering) nitrogen  nitromethane GS nitrogen compounds . nitro compounds . nitro compounds . nitro compounds . nitro methane RT BSX
. Pyrrones (trademark) . nitrosamine . nitros compounds . nitrosyls . nitrosyl chlorides . nitroychlorides . nitryl fluorides . nitryl fluorides . quinoline . thiazine (trademark) . thymine . trinitramine . tryptophan . uracil . xanthines . caffeine . guanines . uric acid . nitriles . acetonitrile . acrylonitrile . malononitrile . phosphonitriles . succinonitrile	the nitrogen molecule is the lasing medium. GS stimulated emission devices . lasers gas lasers nitrogen lasers  RT lasing nitrogen population inversion pulsed lasers ultraviolet lasers  nitrogen metabolism GS metabolism . nitrogen metabolism  RT biochemistry ∞ biology enzymology hydrogen metabolism nutrition  nitrogen oxides GS chalcogenides . oxides . nitrogen oxides . nitrogen oxides nitrogen oxides nitrogen dioxide	explosives glycerides glycerols  nitroguanidine UF HBNQ GS nitrogen compounds . nitro compounds . nitro compounds . nitroguanidine RT explosives solid propellants  nitrolysis GS chemical reactions . nitrolysis decomposition . nitrolysis RT cracking (chemical engineering) nitrogen  nitromethane GS nitrogen compounds . nitro compounds . nitro compounds . nitro compounds . nitromethane
. Pyrrones (trademark) . nitrosamine . nitroso compounds . nitrosyls nitrosyl chlorides . nitroychlorides . nitryl chlorides . nitryl fluorides . quinoline . thiazine (trademark) . thymine . trinitramine . tryptophan . uracil . xanthines . caffeine . guanines . uric acid . nitriles . acetonitrile . acrylonitriles . plysarrylonitrile . malononitrile . succinonitrile	the nitrogen molecule is the lasing medium.  GS stimulated emission devices . lasers gas lasers nitrogen lasers  RT lasing nitrogen population inversion pulsed lasers ultraviolet lasers  nitrogen metabolism GS metabolism . nitrogen metabolism  RT biochemistry biology enzymology hydrogen metabolism nutrition  nitrogen oxides GS chalcogenides . oxides . nitrogen oxides . nitrogen oxide nitrogen dioxide nitrogen dioxide nitrogen dioxide nitrogen letroxide	explosives glycerides glycerols  nitroguanidine UF HBNQ GS nitrogen compounds . nitro compounds . nitroguanidine RT explosives solid propellants  nitrolysis GS chemical reactions . nitrolysis decomposition . nitrolysis RT cracking (chemical engineering) nitrogen  nitromethane GS nitrogen compounds . nitro compounds . nitro compounds . nitromethane RT BSX explosives
. Pyrrones (trademark) . nitrosamine . nitros compounds . nitrosyls . nitrosyl chlorides . nitroychlorides . nitryl fluorides . nitryl fluorides . quinoline . thiazine (trademark) . thymine . trinitramine . tryptophan . uracil . xanthines . caffeine . guanines . uric acid . nitriles . acetonitrile . acrylonitrile . malononitrile . phosphonitriles . succinonitrile	the nitrogen molecule is the lasing medium. GS stimulated emission devices . lasers gas lasers nitrogen lasers  RT lasing nitrogen population inversion pulsed lasers ultraviolet lasers  nitrogen metabolism GS metabolism . nitrogen metabolism  RT biochemistry ∞ biology enzymology hydrogen metabolism nutrition  nitrogen oxides GS chalcogenides . oxides . nitrogen oxides . nitrogen oxides nitrogen oxides nitrogen dioxide	explosives glycerides glycerols  nitroguanidine UF HBNQ GS nitrogen compounds . nitro compounds . nitroguanidine RT explosives solid propellants  nitrolysis GS chemical reactions . nitrolysis decomposition . nitrolysis RT cracking (chemical engineering) nitrogen  nitromethane GS nitrogen compounds . nitro compounds . nitro compounds . nitro compounds . nitro methane RT BSX

. nitronium perchlorate RT ∞ chemical compounds

nitronium perchlorate

GS halogen compounds . chlorine compounds

. . perchlorates

nitronium perchlorate nitronium compounds nitronium perchlorate

RT rocket oxidizers

nitropropane

nitrogen compounds . nitro compounds

. nitropropane organic compounds

. hydrocarbons

. . aliphatic hydrocarbons

. . . alkanes

... nitropropane

RT 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

nitrosyls

GS halogen compounds

. nitrosyls

. nitrosyl chlorides

nitrogen compounds
. nitroso compounds

. . nitrosyls

. . nitrosyl chlorides

amines RT esters

> halides nitric oxide

nitrogen oxides

nitrous acid

RT air pollution atmospheric chemistry nitric acid nitrogen oxides reaction kinetics

nitrous oxides

GS chalcogenides

. . 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.

celestial bodies

. natural satellites

. . Pluto satellites

. . Nix

RT Hydra Pluto (planet)

NMR

USE nuclear magnetic resonance

n-n junctions

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 satellites launched by NASA for the National Oceanic and Atmospheric Administration for the sensing and recording of atmospheric, hydrological, and oceanographic environmental data.

GS artificial satellites

. 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.

artificial satellites

. meteorological satellites . NOAA satellites

NOAA 7 satellite

RT Advanced Very High Resolution

Radiometer

TIROS N series satellites

NOAA 8 satellite

NOAA E

artificial satellites GS

. meteorological satellites

. . NOAA satellites

NOAA 8 satellite

Advanced Very High Resolution Radiometer

SarSat

NOAA 9 satellite

(added July 1990) UF NOAA F satellite

artificial satellites

. meteorological satellites

. . NOAA satellites

... NOAA 9 satellite

NOAA 10 satellite

(added July 1990) UF NOAA G satellite GS 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

RT Advanced Very High Resolution

Radiometer Solar Backscatter UV Spectrometer

NOAA 12 satellite

(added May 1997)

artificial satellites . meteorological satellites

. . NOAA satellites

. NOAA 12 satellite Advanced Very High Resolution

Radiometer microwave sounding

NOAA 14 satellite

(added May 1997)

GS artificial satellites . meteorological satellites

. . NOAA satellites NOAA 14 satellite

Solar Backscatter UV Spectrometer

RT NOAA E

USE NOAA 8 satellite

NOAA F satellite

USE NOAA 9 satellite

NOAA G satellite USE NOAA 10 satellite

**NOAA** satellites GS 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		spherulites		white noise
	NOAA 14 satellite				attenuation
RT	Advanced Microwave Sounding Unit		avigation	USE	noise reduction
	SMS 1 SMS 2	USE	nap-of-the-earth navigation	noise e	elimination
				USE	noise reduction
nobeliu	ım	NOESS		noise	generators
GS	chemical elements	SN	(NATIONAL OPERATIONAL ENVIRONMENTAL SATELLITE SYSTEM)	,	electromagnetic noise
	. actinide series transuranium elements	DEF	The acronym for the National Opera-		∞ generators
	nobelium		nvironmental Satellite System. This term		radio frequency interference random noise
	. nuclides		onger in use. Used for National Opera- nvironmental Sat Sys.		sound generators
	isotopes radioactive isotopes	UF	National Operational Environmental		sound propagation
	transuranium elements	DT	Sat Sys	noise h	hazards
	nobelium	RT	meteorological satellites meteorology	USE	
	metals . actinide series		NASA programs		noise (sound)
	transuranium elements		observation	noise i	injuries
	nobelium	C	∞ systems		injuries
RT	nobelium isotopes			DT	. noise injuries
بالمطمع	······································	∞ noise		RT	ear protectors ∞ noise
GS	ım isotopes chemical elements	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		
	. nuclides	חרר	LISTED BELOW)	noise i RT	intensity aircraft noise
	isotopes		Any undesired signal (electrical or c) that tends to interfere with the recep-	nı	auditory stimuli
RT	nobelium isotopes nobelium		erpretation, or processing of the desired		effective perceived noise levels
	nobolium	signal.			electromagnetic noise
noble g	ases	RT	background noise continuous noise		
	rare gases		effective perceived noise levels		psychoacoustics
			electromagnetic noise		sirens
noble r			hum		sound intensity
UF GS	precious metals metals		information theory noise (sound)	noise i	measurement
0.0	. noble metals		noise injuries	GS	
	gold		noise propagation	RT	. noise measurement aerodynamic noise
	gold isotopes gold 198		noise spectra random noise		aircraft noise
	ruthenium		signal to noise ratios		background noise
	ruthenium isotopes		spatial filtering		jet aircraft noise loudness
	silver silver isotopes		white noise		∞ measurement
RT «	∞ Group 1B compounds				noise (sound)
			sound)		propeller noise sound intensity
noctiluc		UF GS			Sound interiority
USE	luminescence	ds	elastic waves . sound waves	noise i SN	meters
nootilu	cent clouds		noise (sound)	GS	(LIMITED TO ACOUSTIC NOISE) measuring instruments
	Clouds of unknown composition which		aircraft noise		noise meters
occur a	t great heights, 75 to 90 kilometers. They		blade slap noise jet aircraft noise	RT	acoustic measurement field intensity meters
	le thin cirrus clouds, but usually with a or silverish color, although sometimes		propeller noise		pressure measurement
	to red, standing out against a dark night		sonic booms engine noise	• • • •	
sky. So	metimes called luminous clouds.		rocket engine noise	noise   DEF	pollution Objectional or harmful levels of noise.
GS	clouds (meteorology)		flow noise	GS	pollution
RT	. noctilucent clouds luminescence		thermal noise aerodynamic noise	DT	noise pollution
•••			blade slap noise	RT	acoustics audio frequencies
nocturi	nal variations		propeller noise		environment effects
GS	variations	DT	screech tones		environment pollution
	. magnetic variations nocturnal variations	RT	acoustics aeolian tones		environmental quality human reactions
	. periodic variations		aircraft hazards		human tolerances
	nocturnal variations		ambience		physiological effects
RT	diurnal variations geomagnetic micropulsations		auditory stimuli auditory tasks		physiological factors sound waves
	geomagnetic pulsations		background noise		Souria waves
			echoes		prediction
nodes	(standing waves)		effective perceived noise levels flight hazards		Estimation of intensity and frequencies on analyses of probable oscillation of
	Points, lines, or surfaces in standing		human factors engineering		on producing components.
	where some characteristic of the wave s essentially zero amplitude.		hypersonic shock	GS	predictions
RT	antinodes		jet blast effects loudness		noise prediction     noise prediction (aircraft)
	harmonics		mufflers	RT	Flowcs Williams-Hawkings equation
	resonant frequencies standing waves		∞ noise		<b>.</b>
	vibration		noise measurement		prediction (aircraft) Estimating or forecasting of aircraft
	wavelengths		noise spectra operational hazards		Used for aircraft noise prediction.
c	∞ waves		random noise	UF	aircraft noise prediction
nodul-	•		random vibration	GS	•
nodule RT	s leguminous plants		reverberation shock waves		. noise prediction noise prediction (aircraft)
	particles		sound pressure	RT	aeroacoustics
	spheres		underwater acoustics		∞ aircraft
					640

## noise propagation

aircraft noise thermal noise primary batteries computational aeroacoustics storage batteries noise threshold wet cells auditory fatigue Ffowcs Williams-Hawkings equation auditory perception noncondensable gases forecasting propeller noise background noise GS gases . sound waves signal to noise ratios . noncondensable gases ∞ thresholds RT critical temperature noise propagation gas-liquid interactions acoustics noise tolerance liquefaction coherence coefficient RT hazards human tolerances continuous noise nonconductors tolerances (physiology) far fields USE electrical insulation ∞ noise Nomad launch vehicle signal to noise ratios nonconservative forces GS launch vehicles RT conservation sound propagation Nomad launch vehicle conservation equations rocket vehicles noise reduction conservation laws . single stage rocket vehicles noise attenuation continuity equation . Nomad launch vehicle noise elimination ∞ force Atlas launch vehicles noise suppressors liquid propellant rocket engines acoustic attenuation nondestructive tests acoustic ducts DEF Testing that does not alter the material nomenclatures under test in a permanent manner or introduce acoustic retrofitting definition any permanent changes to the material properacoustics descriptions ties and structure. aerodynamic noise dictionaries aircraft noise flaw detection mnemonics coaxial nozzles GS nondestructive tests naming . neutron radiography ear protectors semantics echo suppressors acoustic emission symbols acoustic imaging effective perceived noise levels terminology electrical grounding electromagnetic interference adhesion tests thesauri chemical tests destructive tests electromagnetic noise flight rules nominal values electronic equipment tests USE approximation grazing flow Helmholtz resonators engine tests ground penetrating radar nomograms hardness tests interference immunity USE nomographs high temperature tests isolators jet aircraft noise infrared inspection nomographs inspection loudness DEF On charts or graphs, lines of constant value of given quantities with respect to either load tests mufflers low temperature tests propeller noise space or time. Used for isopleths and nomo-∞ materials tests quiet engine program grams nonintrusive measurement ∞ reduction UF isopleths photoacoustic microscopy preventive maintenance shock wave attenuation nomograms silence GS analysis (mathematics) quality control radiography squelch circuits . numerical analysis suppressors . nomographs synchrophasing reliability RT charts vibration isolators SH waves graphs (charts) shearography noise spectra static tests nonadiabatic conditions spectra ∞ tests In thermodynamics, changes in volnoise spectra thermography ume, temperature, flow, etc., accompanied by a acoustic frequencies tolerances (mechanics) transfer of heat. background noise conditions ultrasonic flaw detection GS channel noise ultrasonic spectroscopy nonadiabatic conditions electromagnetic compatibility ultrasonic tests energy transfer x ray inspection electromagnetic noise heat transfer electromagnetic spectra nonisothermal processes nonelectrolytes ∞ noise thermodynamics RT electrolytes noise (sound) radiation spectra nonadiabatic processes nonequilibrium conditions random noise USE heat transfer random signals conditions . nonequilibrium conditions shock spectra nonadiabatic theory adiabatic equations RT ∞ equilibrium signal to noise ratios unsteady state charged particles white noise energy dissipation nonequilibrium drag ionization cross sections noise storms magnetic disturbances USE friction drag GS storms . noise storms ∞ theories nonequilibrium flow RT cosmic noise wave propagation fluid flow electromagnetic noise ionospheric storms . gas flow nonanes GS organic compounds . nonequilibrium flow magnetic storms RT equilibrium flow radio frequency interference . hydrocarbons . . aliphatic hydrocarbons ∞ fluids solar storms . . . alkanes heat transmission oscillating flow noise suppressors . . . . nonanes quasi-steady states USE noise reduction nonaqueous electrolytes unsteady flow conductors noise temperature electrolytes nonequilibrium ionization GS temperature . noise temperature . nonaqueous electrolytes GS ionization nonequilibrium ionization RT electric batteries electromagnetic noise ∞ electric cells electrochemistry

electrolytic cells

nonequilibrium plasmas

GS particles

electron energy

electron states

temperature measurement

. charged particles optical bistability nonisentropicity . . energetic particles ∞ optics entropy . . . plasmas (physics) ∞ processes quantum dots nonequilibrium plasmas quantum optics . corpuscular radiation nonisothermal processes quantum wires . . energetic particles DEF In thermodynamics, compression or Raman spectra . . . plasmas (physics) expansion of substances at nonuniform tem-Sagnac effect ... nonequilibrium plasmas RT magnetohydrodynamic stability energy transfer nonlinear programming nonuniform plasmas heat transfer An optimization problem in which any plasma composition nonadiabatic conditions or all of the following are nonlinear in the varipressure effects plasma potentials ables: (A) the objective functions, (B) the the plasma radiation ∞ processes defining relationships among the variabes, the temperature gradients plasma sheaths plant description, (C) the constraints. rotating plasmas thermodynamics optimization . mathematical programming nonequilibrium radiation nonisotropic plates . . nonlinear programming electromagnetic radiation USE anisotropic plates research nonequilibrium radiation . nonlinear programming RT nonthermal radiation nonisotropy RT ∞ applications of mathematics USE anisotropy shock wave propagation constraints formalism nonequilibrium thermodynamics nonlifting vehicles linear programming thermodynamics USE ballistic vehicles operations research nonequilibrium thermodynamics ∞ programming nonlinear equations irreversible processes algebra nonlinear systems nonEuclidian geometry . nonlinear equations (DYNAMIC SYSTEMS HAVING NONLINEAR RESPONSES) attractors (mathematics) SN USE differential geometry . . cubic equations Duffing differential equation nonferrous metals . . Monge-Ampere equation chaos GS metals . . nonlinear evolution equations control equipment nonferrous metals . . quadratic equations distributed parameter systems chemical elements quartic equations dynamic programming conductors analysis (mathematics) dynamical systems ∞ metallurgy . real variables linear systems . . nonlinear equations strange attractors nonflammable materials cubic equations ∞ systems asbestos Duffing differential equation tracking problem fireproofing Monge-Ampere equation uncertain systems ∞ inorganic materials ... nonlinear evolution equations Kevlar (trademark) quadratic equations nonlinearity ∞ materials quartic equations oxides quasilinearity Born-Infeld theory refractory materials RT differential equations differential equations functions (mathematics) ∞ equations nongray atmospheres linearity field theory (algebra) RT ∞ atmospheres magnetic amplifiers integral equations polynomials black body radiation variability emissivity Volterra equations roots of equations gray gas planetary atmospheres nonlinear evolution equations nonNewtonian flow The rate of flow of a material that is not GS algebra DEF nongray gas proportional to the degree of force applied. . nonlinear equations GS gases . . nonlinear evolution equations fluid flow ..อเฉ แอพ . **nonNewtonian flow** liquid flow . nongray gas analysis (mathematics) RT ∞ atmospheres . real variables RT black body radiation . . nonlinear equations steady flow emissivity nonlinear evolution equations thixotropy heat transfer difference equations unsteady flow spectral emission  ${\scriptstyle \infty} \, equations$ viscoelasticity thermal radiation viscoplasticity thermodynamics nonlinear feedback feedback nonholonomic equations nonNewtonian fluids nonlinear feedback analysis (mathematics) Fluids that exhibit a viscosity which feedback amplifiers . complex variables varies with changing shear stress or shear rate. feedback control nonholonomic equations colloids negative feedback analytic functions ∞ fluids positive feedback ∞ equations gelatins sensory feedback gels transfer functions nonhomogeneity newton USE inhomogeneity **Newton Theory** nonlinear filters Newtonian fluids nonintrusive measurement electric filters rheology electromagnetic wave filters (added September 1992) viscoelasticity non-intrusive measurement ∞ filters viscoplasticity flow measurement linear filters viscous fluids laser doppler velocimeters nonlinear optics ∞ measurement nonohmic effect nondestructive tests DEF Study of the interaction of radiation RT barrier layers with matter in which certain variables describing optical measurement

to variables describing the radiation.

electro-optical effect

gradient index optics

four-wave mixing

geometrical optics

birefringence

chromophores electromagnetic radiation

pressure sensitive paints

USE nonintrusive measurement

isentropic processes

non-intrusive measurement

nonisentropicity

GS

temperature measurement

temperature sensitive paints

# the response of the matter are not proportional

contact resistance ∞ effects space charge

## nonoscillatory action

GS oscillations . nonoscillatory action oscillation dampers RT oscillators

nonparametric statistics vibration damping gas flow .. norepinephrine turbulent flow dopamine nonparametric statistics uniform flow neurotransmitters GS statistical analysis unsteady flow nonparametric statistics norleucine RT ∞ statistics nonuniform magnetic fields GS acids magnetic fields . amino acids nonpoint sources nonuniform magnetic fields . . leucine DEF Undetermined or general areas from diffraction radiation .. norleucine which pollutants, contaminants, and/or other unlines of force organic compounds wanted materials or wastes enter the environmagnetic anomalies . amino acids ment. magnetic mirrors . . leucine RT contaminants . . . norleucine contamination nonuniform plasmas diffusion GS particles normal density functions environments . charged particles Gaussian distributions gases . . energetic particles normal distributions liquids . . . plasmas (physics) functions (mathematics) particles .... nonuniform plasmas . probability density functions ∞ points . corpuscular radiation . . normal density functions poisons . . energetic particles statistical analysis pollution . . . plasmas (physics) . probability density functions public health . . nonuniform plasmas . normal density functions radioactive wastes Kelvin-Helmholtz instability continuity (mathematics) ∞ sources low density research discrete functions toxicology magnetohydrodynamic stability histograms wastes nonequilibrium plasmas plasma composition normal distributions nonpolar gases plasma oscillations USE normal density functions GS gases plasma waves nonpolar gases rarefied plasmas normal force distribution RT molecular gases USE force distribution rare gases nonuniformity flexibility nonreflection normal shock waves inhomogeneity USE energy absorption irregularities GS elastic waves nonsynchronization . shock waves nonrelativistic electrons . normal shock waves oscillations USE electrons longitudinal waves turbulence magnetohydrodynamic waves nonrelativistic mechanics oblique shock waves nonviscous flow Newton Theory USE plane waves inviscid flow relativity shock layers nonresonance The instant at which a time reference is normality RT microwave resonance over the upper branch of the reference meridian. asymptotic properties transmission lines daytime average traveling waves zenith mean median (statistics) nonrigidity
USE flexibility Nord 262 aircraft norms USE MH-262 aircraft statistical tests nonspherical optics Nord 1500 aircraft USE aspheric optics normalized difference vegetation index Griffon aircraft (added June 2001) GS jet aircraft nonstabilized oscillation DEF A transformation of satellite-based Nord 1500 aircraft measurements computed as the ratio of reflecoscillations monoplanes . nonstabilized oscillation tance in the red and near-infrared portions of the Nord 1500 aircraft oscillation dampers spectrum. Reflectance in the red region de-Nord aircraft creases with increasing chlorophyll content of oscillators Nord 1500 aircraft the plant canopy, while reflectance in the infrapilot induced oscillation research vehicles stable oscillations red increases with increasing wet plant biomass. . research aircraft The index value represents greenness, density, vibration damping . Nord 1500 aircraft and vigor of vegetation. supersonic aircraft nonsynchronization UF NDVI (remote sensing) Nord 1500 aircraft deviation GS ratios incoherence RT ∞ aircraft . indexes (ratios) vegetative index ∞ interference Nord aircraft nonuniformity ... normalized difference Nord aircraft vegetation index C-160 aircraft nonthermal emission RT crop vigor MH-262 aircraft USE nonthermal radiation image classification Nord 1500 aircraft remote sensing RT ∞ aircraft nonthermal radiation satellite imagery nonthermal emission vegetation electromagnetic radiation norepinephrine . nonthermal radiation DEF Precursor of epinephrine that is se-∞ normalizing . . cyclotron radiation creted by the adrenal medulla and is a wide-(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) ... ion cyclotron radiation spread central and autonomic neurotransmitter. . synchrotron radiation Norepinephrine is the principal transmitter of normalizing (heat treatment) most postganglionic sympathetic fibers and of galactic radiation

#### nonuniform flow GS

652

fluid flow

∞ radiation

nonuniform flow

magnetic fields

thermal radiation

radio waves

nonequilibrium radiation

RT flow characteristics druas

mimetic.

GS

. stimulants

. . norepinephrine

the diffuse projection system in the brain arising

from the locus ceruleus. It is also found in plants

and is used pharmacologically as a sympatho-

organic compounds

. amines

. . catecholamine

normalizing (statistics)

heat treatment GS

regularity

. normalizing (heat treatment)

annealing hardening (materials) laser annealing

∞ normalizing

tempering	North Polar Spur (astronomy)	noses (forebodies)
· -	extraterrestrial radiation `	, ,
normalizing (statistics)	. extraterrestrial radio waves	nose (anatomy)
RT evaluation ∞ normalizing	galactic radio waves	GS anatomy
quality control	North Polar Spur (astronomy) . galactic radiation	. face (anatomy)
ratings	galactic radio waves	<b>nose (anatomy)</b> . respiratory system
renormalization group methods	North Polar Spur (astronomy)	. nose (anatomy)
	RT nebulae	RT head (anatomy)
norms	supernova remnants	∞ nose
GS naming . <b>norms</b>	x ray spectra	paranasal sinuses
RT average	North Sea	sinuses
ethics	GS seas	none cone
median (statistics)	. North Sea	nose caps USE nose cones
normality	RT English Channel	OOL Hose cones
psychometrics	AL (1.16)	nose cones
value	North Vietnam USE <b>Vietnam</b>	DEF The cone shaped leading ends of
North America	OSE Vietnam	rocket vehicles, consisting (a) of chambers in
GS continents	Northern Hemisphere	which satellites, instruments, animals, plants, or
. North America	GS Northern Hemisphere	auxiliary equipment may be carried, and (b) of
RT Appalachian Mountains (North	. Arctic regions	outer surfaces built to withstand high tempera- tures generated by aerodynamic heating. Used
America)	subarctic regions	for nose caps.
Canada Central America	RT ∞ hemispheres	UF nose caps
Lower California (Mexico)	northern sky Southern Hemisphere	GS cones
Mexico	Southern Hernisphere	. nose cones
tundra	Northern Ireland	ablative nose cones
United States	(added November 1989)	rocket nose cones
Williston Basin (North America)	GS nations	forebodies . noses (forebodies)
North American aircraft	. United Kingdom	. nose cones
GS North American aircraft	<b>Northern Ireland</b> RT Europe	ablative nose cones
. A-2 aircraft	ni Europe	rocket nose cones
. A-5 aircraft	northern sky	RT ablative materials
. B-1 aircraft	DEF That part of the sky visible from the	aeroshells
. B-70 aircraft	northern hemisphere.	blunt bodies
. F-86 aircraft . F-100 aircraft	RT astronomical catalogs	∞ caps circular cones
. OV-10 aircraft	astronomical coordinates	half cones
. P-51 aircraft	astronomical observatories Northern Hemisphere	missile components
. T-2 aircraft	sky surveys (astronomy)	ogives
. T-28 aircraft	Southern sky	reentry shielding
. T-39 aircraft	,	reentry vehicles
. X-15 aircraft	Northrop aircraft	spacecraft components
DT -in-n-4		cnaccoraft chialding
RT ∞ aircraft	GS Northrop aircraft	spacecraft shielding
	GS Northrop aircraft . A-9 aircraft	spherical caps
RT ∞ aircraft  North Atlantic Treaty Organization (NATO) GS organizations	GS Northrop aircraft  . A-9 aircraft  . F-5 aircraft	
North Atlantic Treaty Organization (NATO)	GS Northrop aircraft  . A-9 aircraft  . F-5 aircraft  . F-18 aircraft	spherical caps
North Atlantic Treaty Organization (NATO) GS organizations . North Atlantic Treaty Organization (NATO)	GS Northrop aircraft  . A-9 aircraft  . F-5 aircraft	spherical caps warheads
North Atlantic Treaty Organization (NATO) GS organizations . North Atlantic Treaty Organization (NATO) RT European Union	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft	spherical caps warheads  nose fins GS fins . nose fins
North Atlantic Treaty Organization (NATO) GS organizations . North Atlantic Treaty Organization (NATO)	GS Northrop aircraft  A-9 aircraft  F-5 aircraft  F-18 aircraft  F-20 aircraft  F-89 aircraft  T-38 aircraft  X-21 aircraft	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces
North Atlantic Treaty Organization (NATO) GS organizations . North Atlantic Treaty Organization (NATO) RT European Union international cooperation	GS Northrop aircraft  A-9 aircraft  F-5 aircraft  F-18 aircraft  F-20 aircraft  F-89 aircraft  T-38 aircraft  X-21 aircraft  X-21A aircraft	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies
North Atlantic Treaty Organization (NATO)  GS organizations . North Atlantic Treaty Organization (NATO)  RT European Union international cooperation  North Carolina	GS Northrop aircraft  A-9 aircraft  F-5 aircraft  F-18 aircraft  F-20 aircraft  F-89 aircraft  T-38 aircraft  X-21 aircraft	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies)
North Atlantic Treaty Organization (NATO) GS organizations . North Atlantic Treaty Organization (NATO) RT European Union international cooperation	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft . F-89 aircraft . T-38 aircraft . X-21 aircraft . X-21 aircraft	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies
North Atlantic Treaty Organization (NATO) GS organizations . North Atlantic Treaty Organization (NATO) RT European Union international cooperation  North Carolina GS nations . United States . North Carolina	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft . F-89 aircraft . T-38 aircraft . X-21 aircraft . X-21A aircraft RT ∞ aircraft	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes
North Atlantic Treaty Organization (NATO) GS organizations . North Atlantic Treaty Organization (NATO) RT European Union international cooperation  North Carolina GS nations . United States North Carolina RT Cape Hatteras (NC)	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft . F-89 aircraft . T-38 aircraft . X-21 aircraft . X-21A aircraft RT ∞ aircraft	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets
North Atlantic Treaty Organization (NATO)  GS organizations . North Atlantic Treaty Organization (NATO)  RT European Union international cooperation  North Carolina  GS nations . United States North Carolina  RT Cape Hatteras (NC) Great Smoky Mountains (NC-TN)	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft . F-89 aircraft . T-38 aircraft . X-21 aircraft . X-21A aircraft RT ∞ aircraft RT ∞ aircraft Northwest Territories GS nations	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes
North Atlantic Treaty Organization (NATO) GS organizations . North Atlantic Treaty Organization (NATO) RT European Union international cooperation  North Carolina GS nations . United States North Carolina RT Cape Hatteras (NC) Great Smoky Mountains (NC-TN) Outer Banks (NC)	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft . F-20 aircraft . F-89 aircraft . T-38 aircraft . X-21 aircraft . X-21 aircraft . X-21A aircraft RT ∞ aircraft  Northwest Territories GS nations . Canada . Northwest Territories	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes
North Atlantic Treaty Organization (NATO)  GS organizations . North Atlantic Treaty Organization (NATO)  RT European Union international cooperation  North Carolina  GS nations . United States North Carolina  RT Cape Hatteras (NC) Great Smoky Mountains (NC-TN)	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft . F-89 aircraft . T-38 aircraft . X-21 aircraft . X-21 aircraft . X-21A aircraft RT ∞ aircraft  Northwest Territories GS nations . Canada . Northwest Territories  Norton County achondrite	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes annular ducts
North Atlantic Treaty Organization (NATO) GS organizations . North Atlantic Treaty Organization (NATO) RT European Union international cooperation  North Carolina GS nations . United States North Carolina RT Cape Hatteras (NC) Great Smoky Mountains (NC-TN) Outer Banks (NC)	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft . F-89 aircraft . T-38 aircraft . X-21 aircraft . X-21 aircraft . X-21A aircraft RT ∞ aircraft  Northwest Territories GS nations . Canada Northwest Territories  Norton County achondrite GS celestial bodies	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes annular ducts bypass ratio
North Atlantic Treaty Organization (NATO)  GS organizations . North Atlantic Treaty Organization (NATO)  RT European Union international cooperation  North Carolina  GS nations . United States North Carolina  RT Cape Hatteras (NC) Great Smoky Mountains (NC-TN) Outer Banks (NC) Sand Hills Region (GA-NC-SC)  North Dakota GS nations	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft . F-20 aircraft . F-89 aircraft . T-38 aircraft . X-21 aircraft . X-21 aircraft . X-21A aircraft RT ∞ aircraft  Northwest Territories GS nations . Canada . Northwest Territories  Norton County achondrite GS celestial bodies . meteorites	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes annular ducts bypass ratio ducted bodies
North Atlantic Treaty Organization (NATO) GS organizations	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft . F-89 aircraft . T-38 aircraft . X-21 aircraft . X-21 aircraft . X-21 aircraft  Northwest Territories GS nations . Canada . Northwest Territories  Norton County achondrite GS celestial bodies . meteorites . stony meteorites	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes annular ducts bypass ratio ducted bodies ducts
North Atlantic Treaty Organization (NATO) GS organizations	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft . F-20 aircraft . F-89 aircraft . T-38 aircraft . X-21 aircraft . X-21 aircraft . X-21A aircraft RT ∞ aircraft  Northwest Territories GS nations . Canada . Northwest Territories  Norton County achondrite GS celestial bodies . meteorites	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes annular ducts bypass ratio ducted bodies ducts hypersonic inlets
North Atlantic Treaty Organization (NATO) GS organizations	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft . F-89 aircraft . T-38 aircraft . X-21 aircraft . X-21 aircraft . X-21 aircraft  Northwest Territories GS nations . Canada . Northwest Territories  Norton County achondrite GS celestial bodies . meteorites . stony meteorites achondrites	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes annular ducts bypass ratio ducted bodies ducts
North Atlantic Treaty Organization (NATO) GS organizations	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft . F-89 aircraft . T-38 aircraft . T-38 aircraft . X-21 aircraft . X-21 aircraft . X-21A aircraft RT ∞ aircraft  Northwest Territories GS nations . Canada . Northwest Territories  Norton County achondrite GS celestial bodies . meteorites . stony meteorites stony meteorites Aroton County achondrite  Norway	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes annular ducts bypass ratio ducted bodies ducts hypersonic inlets inlet airframe configurations
North Atlantic Treaty Organization (NATO) GS organizations . North Atlantic Treaty Organization (NATO) RT European Union international cooperation  North Carolina GS nations . United States North Carolina RT Cape Hatteras (NC) Great Smoky Mountains (NC-TN) Outer Banks (NC) Sand Hills Region (GA-NC-SC)  North Dakota GS nations . United States North Dakota RT Missouri River (US) Williston Basin (North America)	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft . F-89 aircraft . T-38 aircraft . T-38 aircraft . X-21 aircraft . X-21 aircraft . X-21 aircraft RT ∞ aircraft  Northwest Territories GS nations . Canada . Northwest Territories  Norton County achondrite GS celestial bodies . meteorites stony meteorites stony meteorites achondrites Norton County achondrite  Norway GS nations	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes annular ducts bypass ratio ducted bodies ducts hypersonic inlets inlet airframe configurations nacelles noses (forebodies) scoops
North Atlantic Treaty Organization (NATO) GS organizations	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft . F-89 aircraft . T-38 aircraft . X-21 aircraft . X-21 aircraft . X-21A aircraft RT ∞ aircraft  Northwest Territories GS nations . Canada . Northwest Territories  Norton County achondrite GS celestial bodies . meteorites stony meteorites stony meteorites achondrites Norton County achondrite  Norway GS nations . Norway GS nations . Norway	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes annular ducts bypass ratio ducted bodies ducts hypersonic inlets inlet airframe configurations nacelles noses (forebodies) scoops side inlets
North Atlantic Treaty Organization (NATO) GS organizations	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft . F-89 aircraft . F-89 aircraft . X-21 aircraft . X-21 aircraft . X-21A aircraft RT ∞ aircraft  Northwest Territories GS nations . Canada . Northwest Territories  Norton County achondrite GS celestial bodies . meteorites stony meteorites stony meteorites achondrites Anorton County achondrite  Norway GS nations . Norway RT Europe	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes annular ducts bypass ratio ducted bodies ducts hypersonic inlets inlet airframe configurations nacelles noses (forebodies) scoops side inlets supersonic inlets
North Atlantic Treaty Organization (NATO) GS organizations . North Atlantic Treaty Organization (NATO) RT European Union international cooperation  North Carolina GS nations . United States . North Carolina RT Cape Hatteras (NC) Great Smoky Mountains (NC-TN) Outer Banks (NC) Sand Hills Region (GA-NC-SC)  North Dakota GS nations . United States . North Dakota RT Missouri River (US) Williston Basin (North America)  North Korea UF Democratic Peoples Republic of Korea GS nations	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft . F-89 aircraft . T-38 aircraft . X-21 aircraft . X-21 aircraft . X-21 aircraft . X-21A aircraft RT ∞ aircraft  Northwest Territories GS nations . Canada . Northwest Territories  Norton County achondrite GS celestial bodies . meteorites stony meteorites stony meteorites achondrites Norton County achondrite  Norway GS nations . Norway RT Europe fiords	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes annular ducts bypass ratio ducted bodies ducts hypersonic inlets inlet airframe configurations nacelles noses (forebodies) scoops side inlets
North Atlantic Treaty Organization (NATO) GS organizations . North Atlantic Treaty Organization (NATO) RT European Union international cooperation  North Carolina GS nations . United States North Carolina RT Cape Hatteras (NC) Great Smoky Mountains (NC-TN) Outer Banks (NC) Sand Hills Region (GA-NC-SC)  North Dakota GS nations . United States North Dakota RT Missouri River (US) Williston Basin (North America)  North Korea  UF Democratic Peoples Republic of Korea GS nations . North Korea	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft . F-89 aircraft . T-38 aircraft . T-38 aircraft . X-21 aircraft . X-21 aircraft . X-21 aircraft RT ∞ aircraft  Northwest Territories GS nations . Canada . Northwest Territories  Norton County achondrite GS celestial bodies . meteorites stony meteorites stony meteorites achondrites Norton County achondrite  Norway GS nations . Norway RT Europe fiords Norwegian space program	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes annular ducts bypass ratio ducted bodies ducts hypersonic inlets inlet airframe configurations nacelles noses (forebodies) scoops side inlets supersonic inlets supersonic inlets supersonic inlets
North Atlantic Treaty Organization (NATO) GS organizations . North Atlantic Treaty Organization (NATO) RT European Union international cooperation  North Carolina GS nations . United States North Carolina RT Cape Hatteras (NC) Great Smoky Mountains (NC-TN) Outer Banks (NC) Sand Hills Region (GA-NC-SC)  North Dakota GS nations . United States North Dakota RT Missouri River (US) Williston Basin (North America)  North Korea UF Democratic Peoples Republic of Korea GS nations . North Korea RT Asia	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft . F-89 aircraft . T-38 aircraft . X-21 aircraft . X-21 aircraft . X-21 aircraft . X-21A aircraft RT ∞ aircraft  Northwest Territories GS nations . Canada . Northwest Territories  Norton County achondrite GS celestial bodies . meteorites stony meteorites stony meteorites achondrites Norton County achondrite  Norway GS nations . Norway RT Europe fiords	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes annular ducts bypass ratio ducted bodies ducts hypersonic inlets inlet airframe configurations nacelles noses (forebodies) scoops side inlets supersonic inlets supersonic inlets supersonic inlets water intakes
North Atlantic Treaty Organization (NATO) GS organizations . North Atlantic Treaty Organization (NATO) RT European Union international cooperation  North Carolina GS nations . United States . North Carolina RT Cape Hatteras (NC) Great Smoky Mountains (NC-TN) Outer Banks (NC) Sand Hills Region (GA-NC-SC)  North Dakota GS nations . United States North Dakota RT Missouri River (US) Williston Basin (North America)  North Korea UF Democratic Peoples Republic of Korea GS nations . North Korea RT Asia ∞ Korea	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft . F-38 aircraft . T-38 aircraft . X-21 aircraft . X-21 aircraft . X-21A aircraft RT ∞ aircraft  Northwest Territories GS nations . Canada . Northwest Territories  Norton County achondrite GS celestial bodies . meteorites stony meteorites stony meteorites achondrites Norton County achondrite  Norway GS nations . Norway RT Europe fiords Norwegian space program Scandinavia  Norwegian space program	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes annular ducts bypass ratio ducted bodies ducts hypersonic inlets inlet airframe configurations nacelles noses (forebodies) scoops side inlets supersonic inlets supersonic inlets supersonic inlets
North Atlantic Treaty Organization (NATO) GS organizations . North Atlantic Treaty Organization (NATO) RT European Union international cooperation  North Carolina GS nations . United States North Carolina RT Cape Hatteras (NC) Great Smoky Mountains (NC-TN) Outer Banks (NC) Sand Hills Region (GA-NC-SC)  North Dakota GS nations . United States North Dakota RT Missouri River (US) Williston Basin (North America)  North Korea UF Democratic Peoples Republic of Korea GS nations . North Korea RT Asia	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft . F-89 aircraft . T-38 aircraft . X-21 aircraft . X-21 aircraft . X-21A aircraft RT ∞ aircraft  Northwest Territories GS nations . Canada . Northwest Territories  Norton County achondrite GS celestial bodies . meteorites stony meteorites stony meteorites achondrites Norton County achondrite  Norway GS nations . Norway RT Europe fiords Norwegian space program Scandinavia	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes annular ducts bypass ratio ducted bodies ducts hypersonic inlets inlet airframe configurations nacelles noses (forebodies) scoops side inlets supersonic inlets  owater intakes  nose tips DEF The foremost, sharp points of bombs
North Atlantic Treaty Organization (NATO) GS organizations . North Atlantic Treaty Organization (NATO) RT European Union international cooperation  North Carolina GS nations . United States . North Carolina RT Cape Hatteras (NC) Great Smoky Mountains (NC-TN) Outer Banks (NC) Sand Hills Region (GA-NC-SC)  North Dakota GS nations . United States North Dakota RT Missouri River (US) Williston Basin (North America)  North Korea UF Democratic Peoples Republic of Korea GS nations . North Korea RT Asia ∞ Korea	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft . F-38 aircraft . T-38 aircraft . T-38 aircraft . X-21 aircraft . X-21 aircraft . X-21 aircraft RT ∞ aircraft  Northwest Territories GS nations . Canada . Northwest Territories  Norton County achondrite GS celestial bodies . meteorites stony meteorites stony meteorites achondrites Norton County achondrite  Norway GS nations . Norway RT Europe fiords Norwegian space program Scandinavia  Norwegian space program (added August 1990) GS programs	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes annular ducts bypass ratio ducted bodies ducts hypersonic inlets inlet airframe configurations nacelles noses (forebodies) scoops side inlets supersonic inlets supersonic inlets • water intakes  nose tips  DEF The foremost, sharp points of bombs rockets, missiles, and other symmetrical bodies GS tips . nose tips
North Atlantic Treaty Organization (NATO) GS organizations . North Atlantic Treaty Organization (NATO) RT European Union international cooperation  North Carolina GS nations . United States North Carolina RT Cape Hatteras (NC) Great Smoky Mountains (NC-TN) Outer Banks (NC) Sand Hills Region (GA-NC-SC)  North Dakota GS nations . United States North Dakota RT Missouri River (US) Williston Basin (North America)  North Korea UF Democratic Peoples Republic of Korea GS nations . North Korea RT Asia ∞ Korea South Korea	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft . F-89 aircraft . T-38 aircraft . X-21 aircraft . X-21 aircraft . X-21A aircraft RT ∞ aircraft  Northwest Territories GS nations . Canada . Northwest Territories  Norton County achondrite GS celestial bodies . meteorites stony meteorites stony meteorites achondrites Norton County achondrite  Norway GS nations . Norway RT Europe fiords Norwegian space program Scandinavia  Norwegian space program (added August 1990) GS programs . space programs	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes annular ducts bypass ratio ducted bodies ducts hypersonic inlets inlet airframe configurations nacelles noses (forebodies) scoops side inlets supersonic inlets ∞ water intakes  nose tips DEF The foremost, sharp points of bombs rockets, missiles, and other symmetrical bodies GS tips . nose tips RT aerodynamic configurations
North Atlantic Treaty Organization (NATO) GS organizations . North Atlantic Treaty Organization (NATO) RT European Union international cooperation  North Carolina GS nations . United States . North Carolina RT Cape Hatteras (NC) Great Smoky Mountains (NC-TN) Outer Banks (NC) Sand Hills Region (GA-NC-SC)  North Dakota GS nations . United States . North Dakota RT Missouri River (US) Williston Basin (North America)  North Korea UF Democratic Peoples Republic of Korea GS nations . North Korea RT Asia ∞ Korea South Korea  North Polar Spur (astronomy) DEF One of the largest sources of diffuse radio emission outside the galactic plane. The	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft . F-39 aircraft . F-39 aircraft . T-38 aircraft . X-21 aircraft . X-21 aircraft . X-21A aircraft RT ∞ aircraft  Northwest Territories GS nations . Canada . Northwest Territories  Norton County achondrite GS celestial bodies . meteorites stony meteorites stony meteorites achondrites Norton County achondrite  Norway GS nations . Norway RT Europe fiords Norwegian space program Scandinavia  Norwegian space program (added August 1990) GS programs . space programs . space programs . space programs . space programs . European space programs	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes annular ducts bypass ratio ducted bodies ducts hypersonic inlets inlet airframe configurations nacelles noses (forebodies) scoops side inlets supersonic inlets water intakes  nose tips DEF The foremost, sharp points of bombs rockets, missiles, and other symmetrical bodies GS tips . nose tips RT aerodynamic configurations airfoil profiles
North Atlantic Treaty Organization (NATO) GS organizations . North Atlantic Treaty Organization (NATO) RT European Union international cooperation  North Carolina GS nations . United States . North Carolina RT Cape Hatteras (NC) Great Smoky Mountains (NC-TN) Outer Banks (NC) Sand Hills Region (GA-NC-SC)  North Dakota GS nations . United States . North Dakota RT Missouri River (US) Williston Basin (North America)  North Korea UF Democratic Peoples Republic of Korea GS nations . North Korea RT Asia ∞ Korea South Korea  North Polar Spur (astronomy) DEF One of the largest sources of diffuse radio emission outside the galactic plane. The Spur, a ridge of enhanced emission, may be the	GS Northrop aircraft  A-9 aircraft F-5 aircraft F-18 aircraft F-20 aircraft F-38 aircraft T-38 aircraft A-21 aircraft A-3 aircraft A-3 aircraft A-3 aircraft  Northwest Territories GS nations Canada Northwest Territories  Norton County achondrite GS celestial bodies meteorites A-3 celestial bodies meteorites A-4 celestial bodies A-5 celestial bodies A-6 celestial bodies A-7 celestial bodies A-7 celestial bodies A-8 celestial bodies A-9 celestial bodies A-1 celestial bodies A-2 celestial bodies A-3 celestial bodies A-7 celestial bodies A-8 celestial bodies A-8 celestial bodies A-9 celestial bodies A-9 celestial bodies A-9 celestial bodies A-9 celestial bodies A-1 celestial bodies A-2 celestial bodies	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes annular ducts bypass ratio ducted bodies ducts hypersonic inlets inlet airframe configurations nacelles noses (forebodies) scoops side inlets supersonic inlets ∞ water intakes  nose tips DEF The foremost, sharp points of bombs rockets, missiles, and other symmetrical bodies GS tips . nose tips RT aerodynamic configurations
North Atlantic Treaty Organization (NATO) GS organizations . North Atlantic Treaty Organization (NATO) RT European Union international cooperation  North Carolina GS nations . United States North Carolina RT Cape Hatteras (NC) Great Smoky Mountains (NC-TN) Outer Banks (NC) Sand Hills Region (GA-NC-SC)  North Dakota GS nations . United States North Dakota RT Missouri River (US) Williston Basin (North America)  North Korea UF Democratic Peoples Republic of Korea GS nations . North Korea RT Asia ∞ Korea South Korea  North Polar Spur (astronomy) DEF One of the largest sources of diffuse radio emission outside the galactic plane. The Spur, a ridge of enhanced emission, may be the remnant of the shells of supernovae which ex-	GS Northrop aircraft . A-9 aircraft . F-5 aircraft . F-18 aircraft . F-20 aircraft . F-39 aircraft . F-39 aircraft . T-38 aircraft . X-21 aircraft . X-21 aircraft . X-21A aircraft RT ∞ aircraft  Northwest Territories GS nations . Canada . Northwest Territories  Norton County achondrite GS celestial bodies . meteorites stony meteorites stony meteorites achondrites Norton County achondrite  Norway GS nations . Norway RT Europe fiords Norwegian space program Scandinavia  Norwegian space program (added August 1990) GS programs . space programs . space programs . space programs . space programs . European space programs	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes annular ducts bypass ratio ducted bodies ducted bodies ducts hypersonic inlets inlet airframe configurations nacelles noses (forebodies) scoops side inlets supersonic inlets  ∞ water intakes  nose tips DEF The foremost, sharp points of bombs rockets, missiles, and other symmetrical bodies GS tips . nose tips RT aerodynamic configurations airfoil profiles noses (forebodies)
North Atlantic Treaty Organization (NATO) GS organizations . North Atlantic Treaty Organization (NATO) RT European Union international cooperation  North Carolina GS nations . United States . North Carolina RT Cape Hatteras (NC) Great Smoky Mountains (NC-TN) Outer Banks (NC) Sand Hills Region (GA-NC-SC)  North Dakota GS nations . United States North Dakota RT Missouri River (US) Williston Basin (North America)  North Korea UF Democratic Peoples Republic of Korea GS nations . North Korea RT Asia ∞ Korea South Korea  North Polar Spur (astronomy) DEF One of the largest sources of diffuse radio emission outside the galactic plane. The Spur, a ridge of enhanced emission, may be the remnant of the shells of supernovae which exploded over 100,000 years ago.	GS Northrop aircraft  A-9 aircraft F-5 aircraft F-18 aircraft F-20 aircraft F-38 aircraft T-38 aircraft A-21 aircraft A-3 aircraft A-3 aircraft A-3 aircraft  Northwest Territories GS nations Canada Northwest Territories  Norton County achondrite GS celestial bodies meteorites A-3 celestial bodies meteorites A-4 celestial bodies A-5 celestial bodies A-6 celestial bodies A-7 celestial bodies A-7 celestial bodies A-8 celestial bodies A-9 celestial bodies A-1 celestial bodies A-2 celestial bodies A-3 celestial bodies A-7 celestial bodies A-8 celestial bodies A-8 celestial bodies A-9 celestial bodies A-9 celestial bodies A-9 celestial bodies A-9 celestial bodies A-1 celestial bodies A-2 celestial bodies	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes annular ducts bypass ratio ducted bodies ducts hypersonic inlets inlet airframe configurations nacelles noses (forebodies) scoops side inlets supersonic inlets  water intakes  nose tips DEF The foremost, sharp points of bombs rockets, missiles, and other symmetrical bodies. GS tips . nose tips RT aerodynamic configurations airfoil profiles noses (forebodies)  nose wheels
North Atlantic Treaty Organization (NATO) GS organizations . North Atlantic Treaty Organization (NATO) RT European Union international cooperation  North Carolina GS nations . United States . North Carolina RT Cape Hatteras (NC) Great Smoky Mountains (NC-TN) Outer Banks (NC) Sand Hills Region (GA-NC-SC)  North Dakota GS nations . United States North Dakota RT Missouri River (US) Williston Basin (North America)  North Korea UF Democratic Peoples Republic of Korea GS nations . North Korea RT Asia ∞ Korea South Korea  North Polar Spur (astronomy) DEF One of the largest sources of diffuse radio emission outside the galactic plane. The Spur, a ridge of enhanced emission, may be the remnant of the shells of supernovae which exploded over 100,000 years ago. GS electromagnetic radiation	GS Northrop aircraft  A-9 aircraft F-5 aircraft F-18 aircraft F-20 aircraft F-38 aircraft T-38 aircraft X-21 aircraft X-21 aircraft X-21 aircraft X-21A aircraft RT ∞ aircraft RT ∞ aircraft RT ∞ aircraft  Northwest Territories GS nations Canada Northwest Territories  Norton County achondrite GS celestial bodies meteorites Stony meteorites Norton County achondrite  Norway GS nations Norway GS nations Norway RT Europe fiords Norwegian space program Scandinavia  Norwegian space program (added August 1990) GS programs Space programs Furopean space programs Carropean space program  RT Norway  Norwegian space program  RT Norway	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes annular ducts bypass ratio ducted bodies ducts hypersonic inlets inlet airframe configurations nacelles noses (forebodies) scoops side inlets supersonic inlets ∞ water intakes  nose tips DEF The foremost, sharp points of bombs rockets, missiles, and other symmetrical bodies GS tips . nose tips RT aerodynamic configurations airfoil profiles nose (forebodies)  nose wheels GS wheels
North Atlantic Treaty Organization (NATO) GS organizations . North Atlantic Treaty Organization (NATO) RT European Union international cooperation  North Carolina GS nations . United States . North Carolina RT Cape Hatteras (NC) Great Smoky Mountains (NC-TN) Outer Banks (NC) Sand Hills Region (GA-NC-SC)  North Dakota GS nations . United States . North Dakota RT Missouri River (US) Williston Basin (North America)  North Korea  UF Democratic Peoples Republic of Korea GS nations . North Korea RT Asia ∞ Korea South Korea  North Polar Spur (astronomy) DEF One of the largest sources of diffuse radio emission outside the galactic plane. The Spur, a ridge of enhanced emission, may be the remnant of the shells of supernovae which exploded over 100,000 years ago. GS electromagnetic radiation . radio waves	GS Northrop aircraft  A-9 aircraft F-5 aircraft F-18 aircraft F-20 aircraft F-39 aircraft T-38 aircraft X-21 aircraft X-21 aircraft X-21A aircraft X-21A aircraft To-aircraft X-21A aircraft To-aircraft X-21A aircraft X-21A aircraft X-21A aircraft X-21A aircraft  Northwest Territories GS nations Canada Northwest Territories  Norton County achondrite GS celestial bodies meteorites Source color of the color	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes annular ducts bypass ratio ducted bodies ducts hypersonic inlets inlet airframe configurations nacelles noses (forebodies) scoops side inlets supersonic inlets  water intakes  nose tips DEF The foremost, sharp points of bombs rockets, missiles, and other symmetrical bodies. GS tips . nose tips RT aerodynamic configurations airfoil profiles noses (forebodies)  nose wheels
North Atlantic Treaty Organization (NATO) GS organizations . North Atlantic Treaty Organization (NATO) RT European Union international cooperation  North Carolina GS nations . United States . North Carolina RT Cape Hatteras (NC) Great Smoky Mountains (NC-TN) Outer Banks (NC) Sand Hills Region (GA-NC-SC)  North Dakota GS nations . United States North Dakota RT Missouri River (US) Williston Basin (North America)  North Korea UF Democratic Peoples Republic of Korea GS nations . North Korea RT Asia ∞ Korea South Korea  North Polar Spur (astronomy) DEF One of the largest sources of diffuse radio emission outside the galactic plane. The Spur, a ridge of enhanced emission, may be the remnant of the shells of supernovae which exploded over 100,000 years ago. GS electromagnetic radiation	GS Northrop aircraft  A-9 aircraft F-5 aircraft F-18 aircraft F-20 aircraft F-38 aircraft T-38 aircraft X-21 aircraft X-21 aircraft X-21 aircraft X-21A aircraft RT ∞ aircraft RT ∞ aircraft RT ∞ aircraft  Northwest Territories GS nations Canada Northwest Territories  Norton County achondrite GS celestial bodies meteorites Stony meteorites Norton County achondrite  Norway GS nations Norway GS nations Norway RT Europe fiords Norwegian space program Scandinavia  Norwegian space program (added August 1990) GS programs Space programs Furopean space programs Carropean space program  RT Norway  Norwegian space program  RT Norway	spherical caps warheads  nose fins GS fins . nose fins RT control surfaces finned bodies noses (forebodies) vanes  nose inlets GS intake systems . nose inlets RT air intakes annular ducts bypass ratio ducted bodies ducts hypersonic inlets inlet airframe configurations nacelles noses (forebodies) scoops side inlets supersonic inlets water intakes  nose tips DEF The foremost, sharp points of bombs rockets, missiles, and other symmetrical bodies. GS tips . nose tips RT aerodynamic configurations airfoil profiles noses (forebodies)  nose wheels GS wheels . vehicle wheels

landing gear

#### noses (forebodies)

GS forebodies

. noses (forebodies)

. . nose cones

... ablative nose cones

. . rocket nose cones

RT aircraft structures

∞ nose

nose fins nose inlets

nose tips

#### Nostoc

GS 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

notch sensitivity

Charpy impact test fatigue (materials) impact strength impact tests

## notch strength

GS mechanical properties

notch strength

brittleness

ductility fatigue tests

impact tests ∞ strength

stress concentration stress intensity factors

#### notch tests

notched metals UF

notch tests GS

Charpy impact test

brittleness

crack opening displacement

drop tests fatigue tests

hardness

impact tests

stress concentration

∞ tests

notched metals USE notch tests

## notches

crack opening displacement RT

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 pellets.

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

DEF A second generation Navy navigation satellite which replaces the transit satellites.

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

RT cataclysmic variables shock waves

stellar mass

stellar mass ejection

supernovae

symbiotic stars

#### novocain

GS drugs

. anesthetics

. . novocain

## nowcasting

DEF A self contained short period meteorological forecast for the immediate future covering a period of up to six hours.

meteorology

. weather forecasting

. nowcasting

predictions

. forecasting . . weather forecasting

nowcasting aviation meteorology hindcasting

noxious materials USE contaminants

# Nozomi Mars Orbiter

(added August 1998)

DEF 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.

interplanetary spacecraft

. Mars probes

Nozomi Mars Orbiter

unmanned spacecraft

. . Mars probes

. . Nozomi Mars Orbiter

aeronomy

planetary atmospheres solar planetary interactions

nozzle coefficient USE nozzle flow

nozzle design

RT aerospike engines

∞ design engine design ∞ nozzles

nozzle efficiency

The efficiency with which a nozzle converts potential energy into kinetic energy, commonly 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

GS 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

GS 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

throats

nozzle inserts GS

inserts . 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

Planet-B spacecraft

. Nozomi Mars Orbiter Japanese spacecraft

. space probes

Deimos Phobos

RT	conical nozzles convergent nozzles	Suhl effect	ionization potentials
	divergent nozzles	nu factor	nuclear bulge (galaxies) USE <b>qalactic bulge</b>
0	jet amplifiers ∘ nozzles	RT Poisson ratio	USE galactic bulge
	refractory materials	nuclear astrophysics	nuclear capture
	shrouded nozzles throats	(added July 1988)	GS nuclear reactions . nuclear interactions
	unoats	GS astrophysics	. nuclear capture
nozzlele	ess rocket engines	. <b>nuclear astrophysics</b> nuclear physics	electron capture
GS	engines	. nuclear astrophysics	particle interactions . elementary particle interactions
	. rocket engines	RT cosmology	. nuclear capture
RT	nozzleless rocket engines rocket nozzles	nuclear particles stellar physics	electron capture
		stellal physics	. nuclear interactions <b>nuclear capture</b>
o nozzles	S	nuclear auxiliary power units	electron capture
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	GS auxiliary power sources	RT activation energy
	LISTED BELOW)	. nuclear auxiliary power units	capture effect electron transitions
RT	acoustic nozzles annular nozzles	SNAP fission electric cells	energy levels
	atomizers	SNAP 2	∞ interactions
	blowers	SNAP 4	irradiation spin
	chokes (restrictions)	SNAP 8 SNAP 10A	transition probabilities
	coaxial nozzles	SNAP 1	
	conical nozzles	SNAP 3	nuclear chemistry RT atomic structure
	convergent nozzles convergent-divergent nozzles	SNAP 7 SNAP 9A	∞ chemistry
0	odiffusers	SNAP 11	isomers
	divergent nozzles	SNAP 13	∞ nuclear energy physical chemistry
	dual thrust nozzles	SNAP 15 SNAP 17	plasma chemistry
	exhaust nozzles flow measurement	SNAP 19	quantum chemistry
	funnels	SNAP 21	radiochemistry
	hypersonic nozzles	SNAP 23	nuclear deformation
	injectors inlet nozzles	SNAP 27 SNAP 29	GS deformation
	magnetic nozzles	SNAP 50	. nuclear deformation
	nozzle design	space power reactors	nuclear devices
	nozzle efficiency	fission electric cells SNAP 2	DEF Devices whose explosive potency is
	nozzle geometry nozzle inserts	SNAP 4	derived from nuclear fission of atoms of fission-
	nozzle walls	SNAP 8	able material with the consequent conversion of part of their mass into energy.
	orifices	SNAP 10A	GS explosive devices
	outlets pipe nozzles	SNAP 50 space power unit reactors	. nuclear devices
	plug nozzles	nuclear electric power generation	RT ∞ devices
	rocket nozzles	nuclear auxiliary power units	fission weapons thermonuclear explosions
	shrouded nozzles	SNAP fission electric cells	warheads
	sonic nozzles spike nozzles	SNAP 2	
	spray nozzles	SNAP 4	nuclear electric power generation UF nuclear power generation
	sprayers	SNAP 8	GS nuclear electric power generation
	supersonic nozzles transonic nozzles	SNAP 10A SNAP 1	. nuclear auxiliary power units
	turbines	SNAP 3	SNAP fission electric cells
	vents	SNAP 7	SNAP 2
	wind tunnel nozzles	SNAP 9A SNAP 11	SNAP 4
	ations	SNAP 13	SNAP 8 SNAP 10A
n-p jund USE	p-n junctions	SNAP 15	SNAP 1
	• • • • • • • • • • • • • • • • • • • •	SNAP 17 SNAP 19	SNAP 3
n-p-n ju	ınctions	SNAP 19	SNAP 7 SNAP 9A
GS	semiconductor junctions	SNAP 23	SNAP 9A SNAP 11
рт	. n-p-n junctions bipolar transistors	SNAP 27	SNAP 13
RT	bipolar transistors	SNAP 29 SNAP 50	SNAP 15
NRX re	actors	space power reactors	SNAP 17 SNAP 19
	nuclear reactors	fission electric cells	SNAP 21
	. liquid cooled reactors	SNAP 2 SNAP 4	SNAP 23
	water cooled reactors NRX reactors	SNAP 8	SNAP 27 SNAP 29
	. nuclear research and test reactors	SNAP 10A	SNAP 50
	NRX reactors	SNAP 50	space power reactors
RT	KIWI reactors	space power unit reactors RT ∞ power supplies	fission electric cells
	nuclear engine for rocket vehicles	radioisotope batteries	SNAP 2 SNAP 4
NTS		spacecraft power supplies	SNAP 8
USE	navigation technology satellites	thermoelectric generators thermoelectric power generation	SNAP 10A
	J	ganorador	SNAP 50 space power unit reactors
n-type :	semiconductors	nuclear binding energy	space power unit reactors . nuclear power plants
GS	semiconductors (materials)	GS binding energy	. Enrico Fermi atomic power plant
рт	. n-type semiconductors	. nuclear binding energy	Hallam Nuclear Power Facility
RT	electrons Schottky diodes	RT activation energy ∞ energy	ML-1 nuclear power plant . nuclear power reactors
	semiconductor junctions	gravitational binding energy	KIWI reactors

## nuclear electric propulsion

... KIWI B reactors . . . . KIWI B-1 Reactor KIWI B-4 Reactor . . Pathfinder nuclear reactor . . plutonium recycle test reactor space power reactors ... fission electric cells .... SNAP 2 .... SNAP 4 .... SNAP 8 .... SNAP 10A ... SNAP 50 . . . space power unit reactors Tory 2 reactor . . Tory 2-A reactor . Tory 2-C reactor thermonuclear power generation RT electric generators ∞ nuclear energy nuclear electric propulsion propulsion . nuclear propulsion . nuclear electric propulsion electric propulsion electrothermal engines fusion propulsion ion propulsion marine propulsion plasma propulsion spacecraft propulsion nuclear emulsions DEF 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 RT 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 UF 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)

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

UF atomic explosions

GS explosions

## nuclear explosions

. 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

# nuclear fuel burnup

combustion fuel combustion GS

. nuclear fuel burnup

subcritical mass

critical mass reactor physics reactor technology

#### nuclear fuel elements

fuel elements (nuclear reactors) annular core pulse reactors ∞ 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.

reactor fuels fuels

## . nuclear fuels

. . ceramic nuclear fuels

. . fissile fuels . . fissium

. . spent fuels

RT 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

nucleosynthesis GS nuclear reactions . thermonuclear reactions

. . nuclear fusion

. . . controlled fusion collisional plasmas degenerate matter dense plasmas

deuteron irradiation o 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)

collision parameters elementary particles high energy interactions

∞ interactions

strong interactions (field theory)

#### nuclear isobars

RT chemical elements

∞ isobars isotopes

nuclei (nuclear physics) nuclides

## nuclear lightbulb engines

GS engines

- . rocket engines
- . . nuclear rocket engines
- .. nuclear lightbulb engines
- gaseous fission reactors

#### nuclear magnetic resonance

knight shift **NMR** 

GS resonance

- . magnetic resonance
- .. nuclear magnetic resonance
- ... proton magnetic resonance
- . . proton resonance

RT magnetic signals magnetometers

molecular structure

paramagnetic resonance

particle spin Plancks constant spin resonance spin-lattice relaxation

#### nuclear medicine

DEF That branch of medicine dealing with the effect of radiation such as x rays, gamma rays, and energetic particles on the body and with the prevention and cure of physiological injuries resulting from such radiation. Used for radiation medicine.

radiation medicine GS

medical science

. nuclear medicine

. radiobiology RT antiradiation drugs health physics

∞ radiation radiopathology

#### nuclear meteorology

meteorology GS

nuclear meteorology

RT fallout

## nuclear models

models GS

nuclear models

RT atomic structure energy levels molecular structure quark parton model

## nuclear particles

GS particles

- . nuclear particles
- . . antiparticles
- ... antineutrinos
- ... antinucleons ... antiprotons
- . . . positrons
- beta particles
- . . bosons
- alpha particles
- . . . Higgs bosons
- . mesons
- ... eta-mesons
- . . . . hyperons
- . . . . xi hyperons
- . . . . kaons
- . . . . meson resonance
- . X mesons
- . . . . muons
- . . . . omega-mesons
- . . . . pions
- . . . . vector mesons . . . . . rho-mesons

. sigma-mesons

- . . photons
- ... xi hyperons
- . . nucleons

. . photoelectrons

corpuscular radiation

cosmic rays elementary particles

fission products gamma ray bursts

neutron cross sections

neutron distribution

neutron scattering

nuclear astrophysics

nucleon potential nucleon-nucleon scattering

particle accelerators particle tracks

photoneutrons

pi-electrons

positron annihilation proton resonance protons

#### nuclear physics

#### nuclear physics GS

- . nuclear astrophysics
- reactor physics atomic structure

current algebra electromagnetic absorption

field theory (physics) health physics ∞ nuclear energy

nucleonics parity particle spin

∞ physics quantum theory

∞ science theoretical physics

## nuclear potential

GS potential energy nuclear potential

nucleon potential

nuclear power generation

USE nuclear electric power generation

#### nuclear power plants

electric power plants

- nuclear power plants
- . . Enrico Fermi atomic power plant
- . . Hallam Nuclear Power Facility

- . ML-1 nuclear power plant nuclear electric power generation
   . nuclear power plants
   . Enrico Fermi atomic power plant
- Hallam Nuclear Power Facility
- . . ML-1 nuclear power plant
- plasma core reactors

## nuclear power reactors

## GS nuclear electric power generation

- nuclear power reactors
- . . KIWI reactors
- ... KIWI B reactors
- . . . . KIWI B-1 Reactor KIWI B-4 Reactor
- Pathfinder nuclear reactor plutonium recycle test reactor
- . space power reactors
- ... fission electric cells
- SNAP 2
- .... SNAP 4
- .... SNAP 8
- SNAP 10A
- SNAP 50
- . . . space power unit reactors
- Tory 2 reactor
- . . Tory 2-A reactor . Tory 2-C reactor

## nuclear reactors

- . nuclear power reactors
- . . KIWI reactors ... KIWI B reactors
- . . . . KIWI B-1 Reactor
- KIWI B-4 Reactor
- . . Pathfinder nuclear reactor
- . . plutonium recycle test reactor
- . . space power reactors . . . fission electric cells
- .... SNAP 2

.... SNAP 4

- .... SNAP 8
- SNAP 50
- ... space power unit reactors
- . . Tory 2 reactor
- . . Tory 2-A reactor
- . Tory 2-C reactor

RT boiling water reactors

breeder reactors fast nuclear reactors

fast oxide reactors

high temperature gas cooled reactors

liquid metal fast breeder reactors

power reactors

pressurized water reactors

SNAP

sodium graphite reactors

#### nuclear powered ships

GS surface vehicles

- . nuclear powered ships
- . . Savannah nuclear ship
- water vehicles
- . ships

## .. nuclear powered ships

. Savannah nuclear ship

aircraft carriers cargo ships navy

# submarines nuclear propelled aircraft

 $RT \, \infty \, aircraft$ ∞ military aircraft research aircraft

# nuclear propulsion

chemonuclear propulsion thermonuclear propulsion

GS

# propulsion

- . nuclear propulsion
- . . fusion propulsion
  . . nuclear electric propulsion

RT aircraft engines

gaseous fission reactors

high temperature nuclear reactors

high temperature propellants

magnetic nozzles marine propulsion

matter-antimatter propulsion mercury ion engines

NEW MOONS project ∞ nuclear energy

Rover project Savannah nuclear ship

spacecraft propulsion trident submarine underwater propulsion

nuclear pumped lasers DEF Lasers in which the excitation is supplied by a nuclear reactor as a high flux source or by the kinetic energy of the fission fragments

only.

ĠS stimulated emission devices . lasers

. . nuclear pumped lasers optical pumping optical resonance

nuclear pumping DEF Laser-like pumping produced by electrons generated in nuclear reactions or, in general, by beams of charged particles.

RT electron pumping energy transfer fission products

gas lasers

lasers optical pumping

population inversion ∞ pumping

stimulated emission stimulated emission devices

## nuclear quadrupole resonance

resonance GS

. nuclear quadrupole resonance

RT energy levels quadrupoles

## nuclear radiation

DEF Corpuscular emissions, such as alpha and beta particles, or electromagnetic radiation, such as gamma rays, originating in the nucleus of the atom.

## GS nuclear radiation

- . beta particles
- fast neutrons
- . gamma ray beams
- . gamma rays
- . . gamma ray bursts
- neutron beams
- . photoneutrons
- . post-blast nuclear radiation
- spallation
- thermal neutrons

alpha particles

bremsstrahlung

Cerenkov radiation

corpuscular radiation

electromagnetic radiation

electron pumping electron radiation

electrons

elementary particles emission spectra

fission products

gamma ray absorption health physics

high energy interactions ionizing radiation

irradiation

neutrons particle production photons

∞ radiation

radiation effects

radiation hazards

radioactive contaminants

radioactive decay

radioactive materials

radioactivity

radiobiology radiochemistry

Vela satellites

## nuclear radiation spectroscopy

GS

spectroscopy
nuclear radiation spectroscopy

mass spectroscopy spectroscopic analysis vacuum spectroscopy

## nuclear ramjet engines

GS engines

. rocket engines

nuclear ramjet engines

RT Pluto reactors

∞ rockets

supersonic low altitude missile

#### nuclear reactions

UF neutron transmutation

#### GS nuclear reactions

- . nuclear fission
- . . chain reactions (nuclear physics)
- . nuclear interactions
- . . nuclear capture . electron capture
- spin-orbit interactions
- ... electron capture
- . . weak interactions (field theory)
- . nuclear scattering
- . . neutron scattering
- . . resonance scattering
- . nuclear transformations
- . . transmutation
- . photonuclear reactions . proton scattering
- . proton-proton reactions
- . radioactive decay
- . . alpha decay . . neutron emission
- . spallation
- . thermonuclear reactions
- . . nuclear fusion
- RT Bragg curve

658

Compton effect critical experiments critical mass

electron scattering emission

half life

high energy interactions

inhour equation

∞ interactions internal conversion pair production

particle interactions

particle production photoneutrons

poisoning (reaction inhibition)

pomerons

radiation absorption radiogenic materials ∞ reaction

reaction kinetics reactivity

solar neutrinos

strong interactions (field theory)

subcritical mass

#### nuclear reactor control

RT confinement

∞ control

control rods

∞ reaction control reactor safety

#### nuclear reactors

Apparatus in which nuclear fission may be sustained in a self supporting chain reaction.

#### GS nuclear reactors

- annular core pulse reactors
- Astron thermonuclear reactor
- . breeder reactors
- . . Experimental Breeder Reactor 1
- . . Experimental Breeder Reactor 2
- light water breeder reactors
- liquid metal fast breeder reactors
- . engineering test reactors
- fast nuclear reactors . . Experimental Breeder Reactor 1
- Experimental Breeder Reactor 2
- . . fast oxide reactors
- fast test reactors
- gas cooled fast reactors
- liquid metal fast breeder reactors
- . fusion reactors
- heliotrons
- spheromaks stellarators
- fusion-fission hybrid reactors
- . gas cooled reactors

- experimental gas cooled reactors
   gas cooled fast reactors
   high temperature nuclear reactors
- ... high temperature gas cooled
- reactors
- . . KIWI reactors
- ... KIWI B reactors
- KIWI B-1 Reactor KIWI B-4 Reactor
- Tory 2 reactor
- Tory 2-A reactor
- . Tory 2-C reactor gaseous fission reactors
- Hanford reactors
- high flux isotope reactors
- . liquid cooled reactors
- . . liquid metal cooled reactors
- ... advanced sodium cooled reactor Experimental Breeder Reactor 1
- ... Experimental Breeder Reactor 2
- ... Lithium Cooled Reactor Experiment
- . . . Los Alamos Molten Plutonium
- Reactor . . . military compact reactors
- . . . sodium graphite reactors
- . sodium reactor experiment . . organic cooled reactors
- ... experimental organic 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
- NRX reactors
- ... Plum Brook Reactor
- . . . pressurized water reactors . . . . spectral shift control reactor
- swimming pool reactors
- . . . zero power reactors
- . . . . zero power reactor 2
- . . . . zero power reactor 3
- zero power reactor 6 . . . . zero power reactor 9
- . molten salt nuclear reactors
- . nuclear power reactors
- . . KIWI reactors
- . . . KIWI B reactors
- . KIWI B-1 Reactor . KIWI B-4 Reactor
- . . Pathfinder nuclear reactor
- plutonium recycle test reactor
- space power reactors fission electric cells
- SNAP 2
- .... SNAP 4
- SNAP 8 SNAP 10A
- SNAP 50 space power unit reactors
- ... Tory 2 reactor
- Tory 2-A reactor . . Tory 2-C reactor
- . nuclear research and test reactors
- . . advanced test reactors experimental boiling water reactors
- . . Experimental Breeder Reactor 1
- . . Experimental Breeder Reactor 2 . . experimental gas cooled reactors
- . experimental organic cooled reactors
- . . heavy water components test reactors
- . . HERO Reactor

. . Health Physics Research Reactor

- . . high temperature nuclear reactors . . . high temperature gas cooled
- reactors
- . . Janus Reactor . . KIWI reactors
- . . . KIWI B reactors .... KIWI B-1 Reactor
- .... KIWI B-1 Reactor
  .... KIWI B-4 Reactor
  .. Livermore Pool Type Reactor
  .. Los Alamos Molten Plutonium
- Reactor
- . . military compact reactors
- . . NRX reactors Plum Brook Reactor
- plutonium recycle test reactor sodium reactor experiment
- Spert reactors
- Tory 2 reactor Tory 2-A reactor
- Tory 2-C reactor ... Tower Shielding Reactor 2
- zero power reactor 2 . . zero power reactor 3
- zero power reactor 6 . . zero power reactor 9
- . organic moderated reactors . . experimental organic cooled reactors
- . pebble bed reactors . Phoebus nuclear reactor
- . plasma core reactors
  . Pluto reactors
- . thermal reactors
- . tokamak devices . . Joint European Torus

- . water moderated reactors . . experimental boiling water reactors
- . . heavy water components test reactors

. . plutonium recycle test reactor

closed cycles control rods fissile fuels

high flux beam reactors

inhour equation loss of coolant moderators

∞ nuclear energy

∞ piles

radiation shielding reactor cores reactor design reactor materials reactor physics reactor safety

reactor startup tests reactor technology

∞ reactors Rover project thermal neutrons

nuclear relaxation

RT relaxation (mechanics)

thermal pollution

nuclear research

GS research

. nuclear research

high energy interactions laboratories

∞ nuclear energy plasma core reactors radiochemistry

#### nuclear research and test reactors

DEF A class of nuclear reactors used to do research into nuclear physics, reactor materials and design, and nuclear medicine.

materials testing reactors nuclear test reactors

physical constants testing reactor

nuclear reactors

. nuclear research and test reactors

. . advanced test reactors

. experimental boiling water reactors
. Experimental Breeder Reactor 1

. . Experimental Breeder Reactor 2

. . experimental gas cooled reactors

. . experimental organic cooled reactors

.. Health Physics Research Reactor

. . heavy water components test reactors

. . HERO Reactor

. . high temperature nuclear reactors

... high temperature gas cooled reactors

. . Janus Reactor

. . KIWI reactors

... KIWI B reactors

KIWI B-1 Reactor

KIWI B-4 Reactor

. . Livermore Pool Type Reactor

... Los Alamos Molten Plutonium Reactor

. . military compact reactors

.. NRX reactors

. . Plum Brook Reactor

. . plutonium recycle test reactor

sodium reactor experiment

. . Spert reactors

Tory 2 reactor

. Tory 2-A reactor

Tory 2-C reactor

. . Tower Shielding Reactor 2

. . zero power reactor 2 . . zero power reactor 3

. . zero power reactor 6

. zero power reactor 9

boiling water reactors neutron sources

reactor design reactor technology

Transient Reactor Test Facility

nuclear rocket engines

Rocket engines in which nuclear reactors are used as power sources or as sources of thermal energy. Used for thermionic reactors.

thermionic reactors

GS engines

. rocket engines

. . nuclear rocket engines

. . nuclear lightbulb engines

booster rocket engines fusion propulsion ion engines magnetic nozzles mercury ion engines Phoebus nuclear reactor Pluto reactors

restartable rocket engines

∞ rockets

sustainer rocket engines

nuclear scattering

(SCATTERING CAUSED BY NUCLEUS AND NOT BY ORBITAL ELECTRONS) nuclear reactions

. nuclear scattering

. . neutron scattering

. resonance scattering

scattering

. nuclear scattering

. . neutron scattering

. . resonance scattering

angular distribution backscattering coherent scattering elastic scattering electron scattering

forward scattering incoherent scattering inelastic scattering Mandelstam representation

nuclear shielding

USE radiation shielding

nuclear spin

GS spin

. particle spin

nuclear spin electron spin

energy levels Kondo effect magnetic resonance Overhauser effect quantum numbers quantum theory yrast state

nuclear structure

RT energy levels even-even nuclei odd-odd nuclei

nuclear test reactors

USE nuclear research and test reactors

nuclear transformations

GS nuclear reactions

. nuclear transformations

. . transmutation

nuclear vulnerability

DEF The resistance of structures or materials to nuclear radiation or explosions.

vulnerability

nuclear vulnerability

penetration RT radiation effects thermonuclear explosions

nuclear warfare

GS warfare

. nuclear warfare civil defense RT

hardening (systems) ∞ nuclear energy

nuclear warheads GS weapons

. warheads

. . nuclear warheads

nuclear wastes

USE radioactive wastes

nuclear weapons

GS weapons

. nuclear weapons

. fission weapons
. fusion weapons

RT bombs (ordnance)

explosives missiles ∞ nuclear energy

projectiles ∞ rockets

space weapons torpedoes warheads

weapon systems weapons delivery

nuclease

GS biopolymers . proteins

. . enzymes

. . . nuclease organic compounds

. proteins . . enzymes

... nuclease

nucleate boiling GS phase transformations

. vaporizing

. . boiling

. Leidenfrost phenomenon

RT film boiling heat transfer

heat transfer coefficients

nucleation

nucleation nucleation GS

. cloud seeding accumulations Aitken nuclei

atomic clusters condensation nuclei condensing

crystal growth crystallization drop size

∞ formation grain formation heat treatment ice nuclei initiation inoculation jet condensers metal clusters

molecular clusters nucleate boiling ∞ nuclei recrystallization supercooling

∞ nuclei

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

active galactic nuclei Aitken nuclei charged particles chromosomes

condensation nuclei ice nuclei nucleation nuclei (cytology) nuclei (nuclear physics) nucleogenesis

odd-odd nuclei

nuclei (cytology) GS organelles

nuclei (cytology)

cells (biology) cytology cytoplasm

# nuclei (nuclear physics)

genetics	. elementary particle interactions	carbon 12
∞ nuclei	nucleon-nucleon interactions	carbon 13
	RT charged particles	carbon 14
nuclei (nuclear physics)	∞ interactions	cerium isotopes
DEF The positively charged cores of atoms		cerium 137
with which are associated practically the whole	nucleon-nucleon scattering	cerium 144
mass of each atom but only a minute part of its	GS scattering	cesium isotopes
volume. GS particles	. nucleon-nucleon scattering	cesium 133
GS particles . charged particles	RT nuclear particles particle collisions	cesium 134
energetic particles	Pomeranchuk theorem	cesium 137
nuclei (nuclear physics)	i omerandruk trieorem	cesium 144
alpha particles	nucleons	cesium vapor
deuterons	DEF In the classification of subatomic par-	chromium isotopes
even-even nuclei	ticles according to mass, the second heaviest	cobalt isotopes
heavy nuclei	type of particles; their mass is intermediate	cobalt 58
hypernuclei	between that of the meson and the hyperon.	cobalt 60
odd-even nuclei	GS particles	dysprosium isotopes
odd-odd nuclei	. elementary particles	erbium isotopes
tritons	nucleons	europium isotopes
. corpuscular radiation	. nuclear particles	fluorine isotopes
energetic particles	nucleons	gadolinium isotopes
nuclei (nuclear physics)	RT alpha particles	gallium isotopes
alpha particles	antinucleons	germanium isotopes
deuterons	baryons	gold isotopes
even-even nuclei	charged particles	gold 198 hafnium isotopes
heavy nuclei	fast neutrons	helium isotopes
hypernuclei	hyperons	holmium isotopes
odd-even nuclei	neutrons	hydrogen isotopes
odd-odd nuclei	nuclei (nuclear physics)	deuterium
tritons	protons vector dominance model	hydrogen 4
RT atoms	vector dominance moder	metallic hydrogen
corpuscular radiation	nucleophiles	tritium
cosmic rays elementary particles	GS electron attachment	iodine isotopes
ions	. nucleophiles	iodine 125
isotopes		iodine 131
neutrons	nucleosides	iodine 132
nuclear isobars	GS organic compounds	iridium isotopes
∞ nuclei	. carbohydrates	iron isotopes
nucleons	glucosides	iron 57
∞ physics	nucleosides	iron 58
protons	adenines	iron 59
yrast state	guanosines	krypton isotopes
	RT ribose	krypton 85
nucleic acid denaturation	thymidine	lanthanum isotopes
USE biopolymer denaturation	nual a count ha a ia	lead isotopes lithium isotopes
	nucleosynthesis USE nuclear fusion	lutetium
nucleic acids GS acids	OSL Huclear Iusion	lutetium isotopes
GS acids . <b>nucleic acids</b>	nucleotides	magnesium isotopes
deoxyribonucleic acid	GS organic compounds	manganese isotopes
complementary DNA	. nucleotides	mercury isotopes
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	uridylic acid	nobelium isotopes
ribonucleic acids	RT biopolymers	osmium isotopes
RT biopolymer denaturation	proteins	oxygen isotopes
guanosines	nuelidos	oxygen 17
proteins	nuclides	oxygen 18
uridylic acid	DEF Individual atoms of a given atomic number Z and mass number A.	palladium isotopes
nucleogenesis	GS chemical elements	phosphorus isotopes phosphorus 32
nucleogenesis	. nuclides	phosphorus 32
RT genetics mutations	isotopes	polonium isotopes
muations ∞ nuclei	aluminum isotopes	polonium 208
HUOICI	aluminum 26	polonium 209
nucleon potential	aluminum 27	polonium 210
RT neutrons	antimony isotopes	potassium isotopes
nuclear particles	argon isotopes	potassium 38
nuclear potential	arsenic isotopes	potassium 39
∞ potential	barium isotopes	potassium 40
protons	beryllium isotopes	praseodymium isotopes
∞ radiation	beryllium 7	promethium isotopes
	beryllium 9	protactinium isotopes
nucleonics	beryllium 10	radioactive isotopes
RT ∞ electronics	bismuth isotopes	astatine isotopes
∞ nuclear energy	boron isotopes	beryllium 7
nuclear physics	boron 10	beryllium 9
technologies	bromine isotopes	beryllium 10
nucleon-nucleon interactions	cadmium isotopes calcium isotopes	carbon 14 cerium 137
GS particle interactions	carbon isotopes	cerium 137
		65114111 144

. 404		
cesium 134	thorium isotopes	Fibonacci numbers
cesium 137	thulium isotopes	integers
cesium 144	tin isotopes	number theory
cobalt 58	titanium isotopes	quantum numbers
	·	•
cobalt 60	tungsten isotopes	random numbers
copper isotopes	uranium isotopes	real numbers
	uranium 232	
gold 198	uranium 233	
indium isotopes		numerical analysis
iodine 125	uranium 234	DEF Study of approximation methods using
	uranium 235	
iodine 131	uranium 238	arithmetic techniques for the solution of math-
iodine 132		ematical problems.
iron 59	vanadium isotopes	GS analysis (mathematics)
	xenon isotopes	
krypton 85	xenon 129	. numerical analysis
niobium 95		approximation
nitrogen 16	xenon 133	Born approximation
	xenon 135	
phosphorus 32	ytterbium isotopes	Born-Oppenheimer approximation
polonium 208		Chebyshev approximation
polonium 209	yttrium isotopes	Eddington approximation
	zinc isotopes	
polonium 210	zirconium isotopes	essentially non-oscillatory
potassium 38	zirconium 95	schemes
potassium 40		finite difference theory
	RT isotopic enrichment	
rubidium 86	nuclear isobars	finite difference time domain
sodium 22	particle mass	method
sodium 24	particle mass	finite element method
strontium 85	null hypothesis	Hartree approximation
strontium 88	GS hypotheses	least squares method
strontium 89	71	mean square values
	. null hypothesis	Milne method
strontium 90	RT confidence limits	
transuranium elements	degrees of freedom	multigrid methods
americium	•	Newton methods
	significance	
americium isotopes	statistical tests	Newton-Raphson method
americium 241		boundary element method
berkelium		discretization (mathematics)
californium	null zones	
	GS regions	numerical differentiation
californium isotopes	•	Oseen approximation
curium	. null zones	Pade approximation
	RT diffraction patterns	
curium isotopes	field theory (physics)	particle in cell technique
curium 242		Pohlhausen method
curium 244	∞ force	predictor-corrector methods
einsteinium	interferometry	
	radiation distribution	Rayleigh-Ritz method
fermium	speckle interferometry	relaxation method (mathematics)
lawrencium		Reynolds averaging
mendelevium	very long base interferometry	Ritz averaging method
neptunium	number theory	Schwartz method
neptunium isotopes		Sommerfeld approximation
nobelium	GS number theory	TVD schemes
	. addition theorem	
plutonium	. arithmetic	upwind schemes (mathematics)
plutonium isotopes		vortex in cell technique
plutonium 238	double precision arithmetic	Trefftz method
• • • • • • • • • • • • • • • • • • • •	. fixed point arithmetic	
plutonium 239		computational mechanics
plutonium 240	floating point arithmetic	meshfree methods
plutonium 241	. congruences	boundary integral method
	. diophantine equation	
plutonium 244	. dividing (mathematics)	computational astrophysics
sergenium	• · · · · · · · · · · · · · · · · · · ·	computational chemistry
tritium	. exponents	computational electromagnetics
	. induction (mathematics)	• • .
uranium 232	. integers	computational fluid dynamics
uranium 233		difference equations
uranium 238	. multiplication	error analysis
	. subtraction	finite volume method
xenon 133	RT addition	
xenon 135		Godunov method
zirconium 95	combinatorial analysis	flux difference splitting
radium isotopes	decimals	flux vector splitting
	digits	
radium 226	∞ division	Glimm method
radon isotopes		Graeff calculus
rhenium isotopes	enumeration	interpolation
rhodium isotopes	Fibonacci numbers	
	functions (mathematics)	iteration
rubidium isotopes		conjugate gradient method
rubidium 86	∞ induction	iterative solution
	infinity	
ruthenium isotopes	∞ mathematics	Newton methods
samarium isotopes		Newton-Raphson method
scandium isotopes	∞ numbers	predictor-corrector methods
selenium isotopes	quaternions	Monte Carlo method
	subgroups	
silicon isotopes		nomographs
silver isotopes	∞ theories	. numerical integration
·	uniqueness theorem	Runge-Kutta method
sodium isotopes	•	
sodium 22	numboro	computational aeroacoustics
sodium 24	∞ numbers	direct numerical simulation
	SN (USE OF A MORE SPECIFIC TERM IS	
strontium isotopes	RECOMMENDEDCONSULT THE TERMS	space-time CE/SE method
strontium 85	LISTED BELOW)	truncation errors
strontium 87	RT alphanumeric characters	RT adjoints
strontium 89	Biot number	•
		algorithms
strontium 90	complex numbers	alternating direction implicit methods
sulfur isotopes	coordination number	∞ analyzing
tantalum isotopes	counting	∞ applications of mathematics
technetium isotopes	Damkohler number	asymptotes
tellurium	decimals	computational grids
tellurium isotopes	digits	computer programming
terbium isotopes	dimensionless numbers	Crank-Nicholson method
thallium isotopes	double precision arithmetic	differential equations
	and the second contraction of the second con	

ill-conditioned problems (mathematics) ill-posed problems (mathematics) isoparametric finite elements linear programming mathematical tables ∞ mathematics method of moments significance spatial marching time marching trajectory analysis

#### numerical aperture

(added January 1995)

The sine of the vertex angle of the largest cone of meridional rays that can enter or 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 resolution

#### numerical control

computerized control GS

automatic control numerical control

 $RT \, {\it so} \, automation$ 

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

GS data bases

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

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

GS analysis (mathematics)

. numerical analysis .. numerical integration

. . . Runge-Kutta method

. real variables

. . measure and integration ... numerical integration

. . Runge-Kutta method differential equations digital integrators integral calculus

## numerical stability

GS stability

numerical 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

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.)

GS dimensionless numbers

Nusselt number

ratios

Nusselt number

Brinkman number convective heat transfer heat transfer

Prandtl number Schmidt number

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

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) SN

aquiculture caloric requirements carbohydrates eutrophication fats fatty acids

fishes life support systems lipid metabolism

lipids minerals nutrition

nutritional requirements

proteins trace elements vitamins

## nutrition

RT biochemistry broths

caloric requirements diets

∞ food metabolism

nitrogen metabolism ∞ nutrients

nutritional requirements space flight feeding

## nutritional requirements

## nutritional requirements

. caloric requirements

atrophy ∞ nutrients nutrition space flight feeding synthetic food

## nuts (fasteners)

GS fasteners

. nuts (fasteners)

anchors (fasteners) holts holders screws threads

## nuts (fruits)

angiosperms orchards seeds

## Nylon (trademark)

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

GS diagrams

. **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.

GS eye movements nystagmus

. vestibular nystagmus
RT electronystagmography
eye (anatomy)

	1 .				1.1
O ring s			. astronomical observatories		prolate spheroids
GS	seals (stoppers)		astronomical satellites		shapes
	. O ring seals		OAO		solar oblateness
RT	gaskets		OAO 3		
	glands (seals)	RT	Atlas Centaur launch vehicle	oblique	coordinates
	hermetic seals			DEF	Magnitudes defining a point relative to
	labyrinth seals	OAO-A		two inte	rsecting nonperpendicular lines, called
~	rings	USE	OAO 1	axes.	
	Space Shuttle Boosters	002			coordinates
	Opace Gratile Boosters	OAO-A2	,		. oblique coordinates
O stars			OAO 2	RT	Cartesian coordinates
	celestial bodies	002	040.2		Cartesian coordinates
ao		OAO-C		oblique	shock waves
	. stars	USE	OAO 3		Shock waves attached to the bow and
	early stars	USE	OAO 3		
	hot stars				in aerodynamic vehicle moving faster
	O stars	oases			e speed of sound. The sides of the
RT	blue stars	RT	aquifers		shock waves form the Mach cone.
	Population I stars		arid lands	GS	elastic waves
	Wolf-Rayet stars		desertification		. shock waves
			deserts		oblique shock waves
	lge isochronous cyclotron		potable water	RT	magnetohydrodynamic waves
UF	ORIC cyclotron		springs (water)		normal shock waves
GS	particle accelerators		vegetation		shock layers
	. cyclotrons		wells		supersonic compressors
	Oak Ridge isochronous				
	cyclotron	oats		oblique	wings
	, , , , , ,	GS	farm crops		airfoils
OAO			. grains (food)	0.0	. wings
UF	Orbiting Astronomical Observatory		oats		oblique wings
٠.	S-18 satellite		plants (botany)	RT	aerodynamic configurations
GS	artificial satellites		. oats	וח	
40	. scientific satellites	RT			aircraft parts
		nı	9		aircraft structures
	astronomical satellites		botany		drone aircraft
	OAO		crop growth		pilotless aircraft
	OAO 1		crop vigor		remotely piloted vehicles
	OAO 2		curing		wing planforms
	OAO 3		Earth resources		
	observatories	~	food	oblique	ness
	. astronomical observatories		grasses	DEF	The state of being neither perpendicu-
	astronomical satellites		irrigation	lar nor h	orizontal.
	OAO		seeds	RT	angles (geometry)
	OAO 1				incident radiation
	OAO 2	Oberon			
	OAO 3	DFF	A satellite of Uranus orbiting at a mean	obscura	tion
RT	Agena B rocket vehicle		of 587,000 kilometers.		occultation
	Atlas launch vehicles	GS	celestial bodies	002	ooditation
	HEAO	ao	. natural satellites	observa	ibility (systems)
	HEAO 1				The property of a system for which
			Uranus satellites		tions of the output variables always is
	HEAO 2	DT	Oberon		
	HEAO 3	RT	Uranus (planet)		t to determine the initial values of all
	manned orbital telescopes			state va	
		obesity		RT	boundary value problems
OAO 1		RT	body fluids		control theory
UF	OAO-A		body measurement (biology)		dependent variables
GS	artificial satellites		body size (biology)		feedback control
	. scientific satellites		body volume (biology)		independent variables
	astronomical satellites		body weight		observation
	OAO		metabolism		parameter identification
	OAO 1				state vectors
	observatories	object p	programs		system identification
	. astronomical observatories	GS	computer programs	~	systems
	astronomical satellites		object programs		systems analysis
	OAO		, , ,		systems engineering
	OAO 1	object-o	priented programming		eyereme engineering
RT	Atlas Centaur launch vehicle		ed October 1991)	observa	ntion
	7 that Contact launon volitor		The use of a programming language	GS	observation
OAO 2			ng of a sequence of commands directed	0.0	. Earth observations (from space)
UF	OAO-A2	at objec			satellite observation
GS	artificial satellites	GS	computer programming		. radio observation
us		GS	. object-oriented programming		
	. scientific satellites	RT	Ada (programming language)		. sky surveys (astronomy)
	astronomical satellites	nı			. space observations (from Earth)
	OAO		C++ (programming language)	DT	. visual observation
	OAO 2		Java (programming language)	RT	counting
	observatories		software development tools		data acquisition
	. astronomical observatories		software engineering		detection
	astronomical satellites				evaluation
	OAO		spheroids		examination
	OAO 2	DEF	Ellipsoids of revolution, the shorter		forest fire detection
RT	Atlas Centaur launch vehicle	axis of v	which is the axis of revolution.		NOESS
		GS	geometry		observability (systems)
OAO 3			. Euclidean geometry	~	performance
UF	Copernicus spacecraft		analytic geometry		reconnaissance
٠.	OAO-C		spheroids		surveillance
GS	artificial satellites		oblate spheroids		3 Omario
33	. scientific satellites	RT		ohearus	ition aircraft
	. astronomical satellites	111	fineness ratio		observation aircraft
	OAO		flattening	GG	. Cessna L-19 aircraft
	OAO 3		•		
			geodesy		OH-4 helicopter
	observatories		geoids		. OH-5 helicopter

	. OH-6 helicopter	OSO	solidification
	. OV-1 aircraft	AOSO	
	. OV-10 aircraft	OSO-1	occultation
RT ∝	aircraft	OSO-2	DEF The disappearance of a body behind
	antisubmarine warfare aircraft	OSO-3	another body of larger apparent size. Used for
	arc clouds	OSO-4	obscuration.
	balloons	OSO-5	UF obscuration
	flying platforms	OSO-6	GS occultation
	gliders	080-7	. lunar occultation
	HS-801 aircraft	OSO-8	solar eclipses
	light aircraft	OSO-C	. radio occultation
	light helicopters	Pinhole Occulter Facility	. stellar occultation
~	military aircraft	STEREO (observatory)	RT ∞ conjunction
	reconnaissance aircraft	European Southern Observatory	eclipses
	utility aircraft	LIGO (observatory)	extinguishing
	weather reconnaissance aircraft	geophysical observatories	Pinhole Occulter Facility
		OGO	∞ transit
observa	ation scheduling	EGO	
	ed November 2002)	OGO-3	occupation
	The development of chronologies and	OGO-5	RT industrial safety
	tional plans for remote-sensing satel-	OGO-A	personnel
	tronomical and planetary observatories,	POGO	work
	er observational platforms.	OGO-4	
	scheduling	OGO-6	occupational diseases
	. observation scheduling	OGO-C	GS diseases
RT	astronomical observatories	OSO	occupational diseases
	Earth observations (from space)	AOSO	RT anemias
	mission planning	OSO-1	carbon monoxide poisoning
	remote sensing	OSO-2	cataracts
	space observations (from Earth)	OSO-3	emphysema
	opaco observamento (nom Lann)	OSO-4	hazards
		OSO-5	health physics
observa		OSO-6	lead poisoning
GS	observatories	OSO-7	leukemias
	. astronomical observatories	OSO-8	operational hazards
	astronomical satellites	OSO-C	public health
	Astronomical Netherlands	. Glory Mission satellite	pulmonary lesions
	Satellite	. Jodrell Bank Observatory	radiation hazards
	Gamma Ray Observatory	. Kuiper Airborne Observatory	toxic hazards
	Ginga satellite	. lunar observatories	tumors
	HEAO	RT artificial satellites	
	HEAO 1	TT armorar oatomico	occurrences
	HEAO 2	obsidian	RT events
	HEAO 3	GS rocks	
	HEAO 4	. igneous rocks	ocean bottom
	Hubble Space Telescope		
	Hubble Space Telescope Infrared Astronomy Satellite	obsidian	RT beds (geology)
	Infrared Astronomy Satellite	<b>obsidian</b> moldavite	RT beds (geology) continental shelves
		<b>obsidian</b> moldavite RT glass	RT beds (geology) continental shelves core sampling
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE	<b>obsidian</b> moldavite RT glass minerals	RT beds (geology) continental shelves core sampling cratons
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector	obsidianmoldavite RT glass minerals powder (particles)	RT beds (geology) continental shelves core sampling cratons deep water
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE . Large Deployable Reflector Magellan ultraviolet astronomy	obsidian moldavite RT glass minerals powder (particles) pumice	RT beds (geology) continental shelves core sampling cratons deep water geology
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO	obsidian moldavite RT glass minerals powder (particles) pumice	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2	obsidian moldavite  RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO	obsidian moldavite  RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OAO 3 OSO AOSO	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO OSO-1	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO OSO-1 OSO-2	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO OSO-1 OSO-2 OSO-3	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass Obstacle avoidance DEF The use of sensors utilizing laser triangulation as means of preventing collisions, es-	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO OSO-1 OSO-2 OSO-3 OSO-3	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass obstacle avoidance DEF The use of sensors utilizing laser trian-	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO OSO-1 OSO-2 OSO-3 OSO-4 OSO-5	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass Obstacle avoidance DEF The use of sensors utilizing laser triangulation as means of preventing collisions, es-	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO OSO-1 OSO-2 OSO-3 OSO-3 OSO-5 OSO-6	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass Obstacle avoidance DEF The use of sensors utilizing laser triangulation as means of preventing collisions, especially in the operation of roving vehicles on	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  ocean color scanner DEF A multispectral scanning radiometer
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO OSO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-6 OSO-7	obsidian moldavite  RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass  Obstacle avoidance DEF The use of sensors utilizing laser triangulation as means of preventing collisions, especially in the operation of roving vehicles on planetary surfaces.	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO SOO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-5 OSO-6 OSO-7 OSO-8	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass obsidian glass  Obstacle avoidance DEF The use of sensors utilizing laser triangulation as means of preventing collisions, especially in the operation of roving vehicles on planetary surfaces. RT aircraft maneuvers evasive actions	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO OSO-1 OSO-2 OSO-4 OSO-5 OSO-6 OSO-7 OSO-7 OSO-8 OSO-8	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass  Obstacle avoidance DEF The use of sensors utilizing laser triangulation as means of preventing collisions, especially in the operation of roving vehicles on planetary surfaces. RT aircraft maneuvers evasive actions tactics	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the invisible and thermal ranges of radiation.
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO AOSO OSO-1 OSO-2 OSO-3 OSO-5 OSO-5 OSO-6 OSO-7 OSO-8 OSO-C Quasat	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass  obstacle avoidance  DEF The use of sensors utilizing laser triangulation as means of preventing collisions, especially in the operation of roving vehicles on planetary surfaces. RT aircraft maneuvers evasive actions tactics terrain following	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the invisible and thermal ranges of radiation. GS scanners
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO AOSO SoO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-6 OSO-7 OSO-8 OSO-7 OSO-8 OSO-C Quasat SAS	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass  Obstacle avoidance DEF The use of sensors utilizing laser triangulation as means of preventing collisions, especially in the operation of roving vehicles on planetary surfaces. RT aircraft maneuvers evasive actions tactics	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the invisible and thermal ranges of radiation. GS scanners . ocean color scanner
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO OSO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-6 OSO-7 OSO-7 OSO-8 OSO-C Quasat SAS Explorer 53 satellite	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass  obstacle avoidance  DEF The use of sensors utilizing laser triangulation as means of preventing collisions, especially in the operation of roving vehicles on planetary surfaces.  RT aircraft maneuvers evasive actions tactics terrain following vulnerability	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the invisible and thermal ranges of radiation. GS scanners . ocean color scanner Coastal Zone Color Scanner
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO OSO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-6 OSO-7 OSO-7 OSO-8 OSO-C Quasat SAS Explorer 53 satellite SAS-1	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass obsidian glass  obsidian glass  obsidian glass  sobsidian glass  obsidian glass  A glass obsidian glass  obsidian glass  sobsidian glass  A glass obsidian glass  obsidian glass  sobsidian glass  obsidian glass  A glass obsidian glass  obsidian glass  sobsidian glass  obsidian glass  obsidian glass  a glass obsidian glass  obsidian glass  in the use of sensors utilizing laser trian- gulation as means of preventing collisions, especially in the operation of roving vehicles on planetary surfaces.  RT aircraft maneuvers evasive actions tactics terrain following vulnerability	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the invisible and thermal ranges of radiation. GS scanners . ocean color scanner . Coastal Zone Color Scanner . Sea-viewing Wide Field-of-view
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO OSO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-6 OSO-7 OSO-6 OSO-7 OSO-8 OSO-C Quasat SAS Explorer 53 satellite SAS-1 SAS-2	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass  obstacle avoidance  DEF The use of sensors utilizing laser triangulation as means of preventing collisions, especially in the operation of roving vehicles on planetary surfaces.  RT aircraft maneuvers evasive actions tactics terrain following vulnerability	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the invisible and thermal ranges of radiation. GS scanners . ocean color scanner . Coastal Zone Color Scanner . Sea-viewing Wide Field-of-view Sensor
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO AOSO OSO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-6 OSO-7 OSO-8 OSO-7 OSO-8 OSO-C Quasat SAS-1 SAS-1 SAS-2 SAS-3	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass  obstacle avoidance DEF The use of sensors utilizing laser triangulation as means of preventing collisions, especially in the operation of roving vehicles on planetary surfaces. RT aircraft maneuvers evasive actions tactics terrain following vulnerability  obstacles USE barriers	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the invisible and thermal ranges of radiation. GS scanners . ocean color scanner . Coastal Zone Color Scanner . Sea-viewing Wide Field-of-view Sensor RT chlorophylls
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO OSO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-6 OSO-7 OSO-8 OSO-7 OSO-8 OSO-C Quasat SAS-1 SAS-2 SAS-3 Constellation-X	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass  obstacle avoidance  DEF The use of sensors utilizing laser triangulation as means of preventing collisions, especially in the operation of roving vehicles on planetary surfaces.  RT aircraft maneuvers evasive actions tactics terrain following vulnerability  obstacles USE barriers obstructing	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the invisible and thermal ranges of radiation. GS scanners . ocean color scanner . Coastal Zone Color Scanner . Sea-viewing Wide Field-of-view Sensor RT chlorophylls coastal water
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO OSO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-6 OSO-7 OSO-6 OSO-7 OSO-8 OSO-C Quasat SAS Explorer 53 satellite SAS-1 SAS-2 SAS-3 Constellation-X Fermi Gamma-ray Space	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass  obstacle avoidance DEF The use of sensors utilizing laser triangulation as means of preventing collisions, especially in the operation of roving vehicles on planetary surfaces. RT aircraft maneuvers evasive actions tactics terrain following vulnerability  obstacles USE barriers	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the invisible and thermal ranges of radiation. GS scanners  ocean color scanner  Coastal Zone Color Scanner Sea-viewing Wide Field-of-view Sensor  RT chlorophylls coastal water colorimetry
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO OSO-1 OSO-2 OSO-3 OSO-5 OSO-6 OSO-7 OSO-6 OSO-7 OSO-8 OSO-C Quasat SAS Explorer 53 satellite SAS-1 SAS-2 SAS-3 Constellation-X Fermi Gamma-ray Space Telescope	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass  obstacle avoidance  DEF The use of sensors utilizing laser triangulation as means of preventing collisions, especially in the operation of roving vehicles on planetary surfaces. RT aircraft maneuvers evasive actions tactics terrain following vulnerability  obstacles USE barriers  obstructing USE blocking	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the invisible and thermal ranges of radiation. GS scanners . ocean color scanner . Coastal Zone Color Scanner . Sea-viewing Wide Field-of-view Sensor RT chlorophylls coastal water colorimetry multispectral band scanners
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO OSO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-6 OSO-7 OSO-8 OSO-7 OSO-8 OSO-C Quasat SAS Explorer 53 satellite SAS-1 SAS-2 SAS-3 Constellation-X Fermi Gamma-ray Space Telescope James Webb Space Telescope	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass  obstacle avoidance DEF The use of sensors utilizing laser triangulation as means of preventing collisions, especially in the operation of roving vehicles on planetary surfaces. RT aircraft maneuvers evasive actions tactics terrain following vulnerability  obstacles USE barriers  obstructing USE blocking occipital lobes	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  Ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the invisible and thermal ranges of radiation. GS scanners Ocean color scanner  Coastal Zone Color Scanner Sea-viewing Wide Field-of-view Sensor RT chlorophylls coastal water colorimetry multispectral band scanners ocean data acquisitions systems
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO OSO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-6 OSO-7 OSO-8 OSO-7 OSO-8 OSO-C Quasat SAS-1 SAS-1 SAS-2 SAS-3 Constellation-X Fermi Gamma-ray Space Telescope James Webb Space Telescope LISA (observatory)	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass  obstacle avoidance DEF The use of sensors utilizing laser triangulation as means of preventing collisions, especially in the operation of roving vehicles on planetary surfaces. RT aircraft maneuvers evasive actions tactics terrain following vulnerability  obstacles USE barriers  obstructing USE blocking  occipital lobes GS anatomy	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the invisible and thermal ranges of radiation. GS scanners . ocean color scanner . Coastal Zone Color Scanner . Sea-viewing Wide Field-of-view Sensor RT chlorophylls coastal water colorimetry multispectral band scanners ocean data acquisitions systems oceanographic parameters
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO OSO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-6 OSO-7 OSO-8 OSO-C Quasat SAS-1 SAS-1 SAS-2 SAS-3 Constellation-X Fermi Gamma-ray Space Telescope James Webb Space Telescope LISA (observatory) Space Infrared Telescope Facility	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass  obstacle avoidance  DEF The use of sensors utilizing laser triangulation as means of preventing collisions, especially in the operation of roving vehicles on planetary surfaces.  RT aircraft maneuvers evasive actions tactics terrain following vulnerability  obstacles USE barriers  obstructing USE blocking  occipital lobes GS anatomy . nervous system	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the invisible and thermal ranges of radiation. GS scanners . ocean color scanner . Coastal Zone Color Scanner . Sea-viewing Wide Field-of-view Sensor RT chlorophylls coastal water colorimetry multispectral band scanners ocean data acquisitions systems oceanography
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO OSO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-6 OSO-7 OSO-8 OSO-C Quasat SAS Explorer 53 satellite SAS-1 SAS-2 SAS-3 Constellation-X Fermi Gamma-ray Space Telescope LISA (observatory) Spartan satellites	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass  obstacle avoidance  DEF The use of sensors utilizing laser triangulation as means of preventing collisions, especially in the operation of roving vehicles on planetary surfaces. RT aircraft maneuvers evasive actions tactics terrain following vulnerability  obstacles USE barriers  obstructing USE blocking  occipital lobes GS anatomy . nervous system central nervous system	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the invisible and thermal ranges of radiation. GS scanners . ocean color scanner . Coastal Zone Color Scanner . Sea-viewing Wide Field-of-view Sensor RT chlorophylls coastal water colorimetry multispectral band scanners ocean data acquisitions systems oceanography photomapping
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO OSO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-6 OSO-7 OSO-8 OSO-7 OSO-8 OSO-C Quasat SAS Explorer 53 satellite SAS-1 SAS-2 SAS-3 Constellation-X Fermi Gamma-ray Space Telescope James Webb Space Telescope LISA (observatory) Spartan satellites Submillimeter Wave Astronomy	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass obsidian glass  obsidian glas  obsidian g	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the invisible and thermal ranges of radiation. GS scanners . ocean color scanner . Coastal Zone Color Scanner . Sea-viewing Wide Field-of-view Sensor RT chlorophylls coastal water colorimetry multispectral band scanners ocean data acquisitions systems oceanography photomapping remote sensors
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO OSO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-6 OSO-7 OSO-8 OSO-7 OSO-8 OSO-C Quasat SAS Explorer 53 satellite SAS-1 SAS-2 SAS-3 Constellation-X Fermi Gamma-ray Space Telescope James Webb Space Telescope LISA (observatory) Space Infrared Telescope Facility Spartan satellites Submillimeter Wave Astronomy Satellite	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass  obstacle avoidance  DEF The use of sensors utilizing laser triangulation as means of preventing collisions, especially in the operation of roving vehicles on planetary surfaces. RT aircraft maneuvers evasive actions tactics terrain following vulnerability  obstacles USE barriers  obstructing USE blocking  occipital lobes GS anatomy . nervous system central nervous system cerebrum	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the invisible and thermal ranges of radiation. GS scanners . ocean color scanner . Coastal Zone Color Scanner . Sea-viewing Wide Field-of-view Sensor RT chlorophylls coastal water colorimetry multispectral band scanners ocean data acquisitions systems oceanography photomapping
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO OSO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-6 OSO-7 OSO-8 OSO-7 OSO-8 OSO-C Quasat SAS-1 SAS-1 SAS-2 SAS-3 Constellation-X Fermi Gamma-ray Space Telescope James Webb Space Telescope LISA (observatory) Spartan satellites Submillimeter Wave Astronomy Satellite Submillimeter Wave Astronomy Satellite Subrillimeter Wave Astronomy Satellite Swift observatory	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass obsidian glass  obsidian glas  obsidian g	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the invisible and thermal ranges of radiation. GS scanners . ocean color scanner . Coastal Zone Color Scanner . Sea-viewing Wide Field-of-view Sensor  RT chlorophylls coastal water colorimetry multispectral band scanners ocean data acquisitions systems oceanography photomapping remote sensors water color
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO OSO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-6 OSO-7 OSO-8 OSO-7 OSO-8 OSO-C Quasat SAS Explorer 53 satellite SAS-1 SAS-2 SAS-3 Constellation-X Fermi Gamma-ray Space Telescope LISA (observatory) Spartan satellites Submillimeter Wave Astronomy Satellite Swift observatory Tenma satellite	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass  obstacle avoidance  DEF The use of sensors utilizing laser triangulation as means of preventing collisions, especially in the operation of roving vehicles on planetary surfaces.  RT aircraft maneuvers evasive actions tactics terrain following vulnerability  obstacles  USE barriers  obstructing USE blocking  occipital lobes GS anatomy . nervous system central nervous system cerebrum occipital lobes	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the invisible and thermal ranges of radiation. GS scanners  ocean color scanner  . Coastal Zone Color Scanner . Coastal Zone Color Scanner . Sea-viewing Wide Field-of-view Sensor RT chlorophylls coastal water colorimetry multispectral band scanners ocean data acquisitions systems oceanographic parameters oceanography photomapping remote sensors water color  ocean currents
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO OSO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-6 OSO-7 OSO-8 OSO-7 OSO-8 OSO-C Quasat SAS Explorer 53 satellite SAS-1 SAS-2 SAS-3 Constellation-X Fermi Gamma-ray Space Telescope LISA (observatory) Space Infrared Telescope Facility Spartan satellite Suift observatory Tenma satellite Swift observatory Tenma satellite Swift observatory Tenma satellite X Ray Astrophysics Facility	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass  obstacle avoidance  DEF The use of sensors utilizing laser triangulation as means of preventing collisions, especially in the operation of roving vehicles on planetary surfaces. RT aircraft maneuvers evasive actions tactics terrain following vulnerability  obstacles USE barriers  obstructing USE blocking  occipital lobes GS anatomy . nervous system central nervous system brain cerebrum occipital lobes  occlusion	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the invisible and thermal ranges of radiation. GS scanners . ocean color scanner . Coastal Zone Color Scanner . Sea-viewing Wide Field-of-view Sensor  RT chlorophylls coastal water colorimetry multispectral band scanners ocean data acquisitions systems oceanography photomapping remote sensors water color  ocean currents GS circulation
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO OSO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-6 OSO-7 OSO-8 OSO-7 OSO-8 OSO-C Quasat SAS Explorer 53 satellite SAS-1 SAS-2 SAS-3 Constellation-X Fermi Gamma-ray Space Telescope LISA (observatory) Space Infrared Telescope Facility Spartan satellite Submillimeter Wave Astronomy Satellite Swift observatory Tenma satellite X Ray Astrophysics Facility X Tenma satellite X Ray Astrophysics Facility X MM-Newton telescope	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass obsidian glass  Obstacle avoidance DEF The use of sensors utilizing laser triangulation as means of preventing collisions, especially in the operation of roving vehicles on planetary surfaces. RT aircraft maneuvers evasive actions tactics terrain following vulnerability  obstacles USE barriers  obstructing USE blocking  occipital lobes GS anatomy central nervous system brain cerebrum occipital lobes  occlusion DEF Specifically, the trapping of undis-	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the invisible and thermal ranges of radiation. GS scanners  ocean color scanner  . Coastal Zone Color Scanner . Coastal Zone Color Scanner . Sea-viewing Wide Field-of-view Sensor RT chlorophylls coastal water colorimetry multispectral band scanners ocean data acquisitions systems oceanographic parameters oceanography photomapping remote sensors water color  ocean currents
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO OSO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-6 OSO-7 OSO-8 OSO-7 OSO-8 OSO-C Quasat SAS-1 SAS-1 SAS-1 SAS-2 SAS-3 Constellation-X Fermi Gamma-ray Space Telescope James Webb Space Telescope LISA (observatory) Spactan satellites Submillimeter Wave Astronomy Satellite Suff observatory Tenma satellite Swift observatory Tenma satellite Swift observatory Tenma satellite Swift observatory Tenma satellite X Ray Astrophysics Facility XMM-Newton telescope Astroplane	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass  obstacle avoidance  DEF The use of sensors utilizing laser triangulation as means of preventing collisions, especially in the operation of roving vehicles on planetary surfaces.  RT aircraft maneuvers evasive actions tactics terrain following vulnerability  obstacles USE barriers  obstructing USE blocking  occipital lobes GS anatomy central nervous system central nervous system central nervous system cerebrum occipital lobes  occlusion  DEF Specifically, the trapping of undissolved gas in a solid during solidification.	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  Ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the invisible and thermal ranges of radiation. GS scanners . Ocean color scanner . Coastal Zone Color Scanner . Sea-viewing Wide Field-of-view Sensor RT chlorophylls coastal water colorimetry multispectral band scanners ocean data acquisitions systems oceanography photomapping remote sensors water color  Ocean currents GS circulation . water circulation . water currents
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO OSO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-6 OSO-7 OSO-8 OSO-C Quasat SAS-1 SAS-1 SAS-1 SAS-2 SAS-3 Constellation-X Fermi Gamma-ray Space Telescope LISA (observatory) Spartan satellite Spartan satellite Submillimeter Wave Astronomy Satellite Swift observatory Tenma satellite Swift observatory Tenma satellite X Ray Astrophysics Facility X Ray Astrophysics Facility XMM-Newton telescope Astroplane ROSAT mission	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass obsidian glass  Obstacle avoidance DEF The use of sensors utilizing laser triangulation as means of preventing collisions, especially in the operation of roving vehicles on planetary surfaces. RT aircraft maneuvers evasive actions tactics terrain following vulnerability  obstacles USE barriers  obstructing USE blocking  occipital lobes GS anatomy central nervous system brain cerebrum occipital lobes  occlusion DEF Specifically, the trapping of undis-	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  Ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the invisible and thermal ranges of radiation. GS scanners Ocean color scanner Ocean color scanner Sea-viewing Wide Field-of-view Sensor RT chlorophylls coastal vater colorimetry multispectral band scanners ocean data acquisitions systems oceanography photomapping remote sensors water color  Ocean currents GS circulation water circulation
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO OSO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-6 OSO-7 OSO-6 OSO-7 OSO-8 OSO-C Quasat SAS Explorer 53 satellite SAS-1 SAS-2 SAS-3 Constellation-X Fermi Gamma-ray Space Telescope James Webb Space Telescope LISA (observatory) Space Infrared Telescope Facility Spartan satellite Sufft observatory Tenma satellite Swift observatory Tenma satellite X Ray Astrophysics Facility XMM-Newton telescope Astroplane ROSAT mission SOFIA (airborne observatory)	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass  Obstacle avoidance  DEF The use of sensors utilizing laser triangulation as means of preventing collisions, especially in the operation of roving vehicles on planetary surfaces. RT aircraft maneuvers evasive actions tactics terrain following vulnerability  obstacles USE barriers  obstructing USE blocking  occipital lobes GS anatomy . nervous system central nervous system brain cerebrum occipital lobes  occlusion  DEF Specifically, the trapping of undissolved gas in a solid during solidification. RT degassing gas-metal interactions	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the invisible and thermal ranges of radiation. GS scanners . ocean color scanner . Coastal Zone Color Scanner . Sea-viewing Wide Field-of-view Sensor  RT chlorophylls coastal water colorimetry multispectral band scanners ocean data acquisitions systems oceanography photomapping remote sensors water color  ocean currents GS circulation . water circulation . water currents ocean currents ocean currents ocean currents ocean currents ocean currents
	Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO AOSO OSO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-6 OSO-7 OSO-8 OSO-C Quasat SAS-1 SAS-1 SAS-1 SAS-2 SAS-3 Constellation-X Fermi Gamma-ray Space Telescope LISA (observatory) Spartan satellite Spartan satellite Submillimeter Wave Astronomy Satellite Swift observatory Tenma satellite Swift observatory Tenma satellite X Ray Astrophysics Facility X Ray Astrophysics Facility XMM-Newton telescope Astroplane ROSAT mission	obsidian moldavite RT glass minerals powder (particles) pumice silicon dioxide soils  obsidian glass GS glass . obsidian glass  obstacle avoidance  DEF The use of sensors utilizing laser triangulation as means of preventing collisions, especially in the operation of roving vehicles on planetary surfaces. RT aircraft maneuvers evasive actions tactics terrain following vulnerability  obstacles USE barriers  obstructing USE blocking  occipital lobes GS anatomy central nervous system central nervous system cerebrum occipital lobes  occlusion  DEF Specifically, the trapping of undissolved gas in a solid during solidification. RT degassing	RT beds (geology) continental shelves core sampling cratons deep water geology marine chemistry mid-ocean ridges mud oceanography sea floor spreading seamounts sediments sludge submarine hydrothermal vents underwater resources  ocean color scanner DEF A multispectral scanning radiometer which is geared to observe ocean features such as chlorophyll, sediments, and topography in the invisible and thermal ranges of radiation. GS scanners  ocean color scanner  . Coastal Zone Color Scanner . Coastal Zone Color Scanner . Sea-viewing Wide Field-of-view Sensor RT chlorophylls coastal water colorimetry multispectral band scanners ocean data acquisitions systems oceanographic parameters oceanography photomapping remote sensors water color  ocean currents GS circulation . water circulation . water currents . ocean currents . ocean currents . ocean currents . ocean currents

## ocean data acquisitions systems

. . . . Gulf Stream fluid flow core sampling . . . Lomonosov current hydrography deep scattering layers core sampling ocean dynamics deep water ∞ currents oceanographic parameters deepwater terminals fluid flow oceanography Earth & Ocean Physics Applications frontal waves polynyas Program Sargasso Sea Earth planetary structure gyres hydrography sea level Earth resources Kelvin waves sea roughness Earth sciences littoral drift environmental monitoring sea states EROS (satellites) littoral transport sea surface temperature ocean dynamics sea truth estuaries oceanography sea water fiords oceans Sea-viewing Wide Field-of-view frontal waves GARP Atlantic Tropical Experiment pressure ice Sensor salinity storm surges geography Spitsbergen (Norway) ∞ surfaces geology thermohaline circulation tidal waves geophysics tidal waves tide powered generators gyres tide powered generators tide powered machines tide powered machines harbors hydroclimatology tidepower tidepower tides hydrography TOPEX tides hydrology TOPEX waterwave energy conversion ice floes upwelling water waterwave powered machines ice mapping waterwave energy conversion isthmuses ocean temperature Landsat satellites waterwave powered machines DEF Surface or subsurface temperature of an entire or specific region of an ocean. marine biology ocean data acquisitions systems marine environments oceanographic parameters ocean data platforms marine meteorology . ocean temperature ocean data stations marine resources sea surface temperature **ODAS** marine technology temperature RT Argos system marshlands . water temperature automatic weather stations meteorology . . ocean temperature mid-ocean ridges buoys Coastal Zone Color Scanner . sea surface temperature ocean bottom el Nino ocean color scanner data data acquisition oceanography ocean currents ground stations oceans ocean dynamics instrument packages offshore energy sources ocean models meteorological parameters sea states ocean surface ocean color scanner sea truth ocean temperature oceanographic parameters sea water oceans offshore docking transoceanic systems solar sea power plants offshore platforms underwater research laboratories surface temperature oil slicks temperature distribution weather stations pelagic zone ∞ physical sciences temperature gradients ocean data platforms thermal pollution red tide USE ocean data acquisitions systems thermohaline circulation reefs Sargasso Sea ocean data stations ocean thermal energy conversion ∞ science USE ocean data acquisitions systems GS energy conversion sea grasses ocean thermal energy conversion sea ice ocean dynamics RT ∞ conversion sea level The study of the controlling forces in ∞ energy sources sea roughness different ocean phenomena. geothermal energy conversion sea states RT air water interactions geothermal technology sea surface temperature dynamic characteristics renewable energy sea water ∞ dynamics solar sea power plants seas fluid dynamics temperature SEASAT 1 hydrodynamics SEASAT program SEASAT satellites ocean currents oceanographic parameters ocean models GS oceanographic parameters SEASAT-B satellite ocean surface . ocean temperature seaweeds oceanography sea surface temperature shallow water QuikSCAT satellite Atmospheric & Oceanographic Inform shipyards thermohaline circulation Sys Coastal Zone Color Scanner water waves shorelines hindcasting storm surges ocean floor spreading integrated global ocean station submarine hydrothermal vents USE sea floor spreading systems tanker terminals meteorological parameters thermoclines ocean models ocean color scanner tidal waves models GS ocean data acquisitions systems tide powered generators . ocean models ocean surface tidepower air water interactions salinity tides atmospheric models sea states TOPEX climate models topography dynamic models oceanography underwater research laboratories marine environments The science that deals with the study underwater resources mathematical models and exploration of seas and oceans. water circulation ocean dynamics artificial harbors water currents oceanography Atmospheric & Oceanographic Inform waterfowl Sys bathymeters Sargasso Sea waterwave energy sea roughness waterwave energy conversion bay ice sea states wetlands breakwaters ocean surface coastal currents oceans

Coastal Zone Color Scanner

DEF

The continuous salt water bodies that

RT Earth surface

surround the continents and fill the Earth's great . octoates combustion products depressions. exhaust gases octol (explosive) oceans gases . Antarctic Ocean GS explosives . octol (explosive) . Arctic Ocean offgassing . Atlantic Ocean DEF The relative high mass loss characteroctopuses istic of many nonmetallic materials upon initial . extraterrestrial oceans GS animals . Indian Ocean vacuum exposure. invertebrates . Pacific Ocean RT degassing . . mollusks coastal currents vacuum . . . cephalopods coastal water vacuum effects octopuses coasts office automation deep water ocular circulation RT ∞ automation Earth hydrosphere GS circulation man machine systems geography . blood circulation keys (islands) word processing . . ocular circulation marine resources Office of Space & Terrestr Applic Payloads nearshore water oculogravic illusions USE OSTA-1 payload ocean currents OSTA-2 payload GS psychological effects ocean temperature . illusions OSTA-3 payload oceanography . . oculogravic illusions seas gravireceptors off-on control seaweeds otolith organs DEF Flicker control, especially as applied to shallow water vertical perception rockets. Used for bang-bang control. shoals bang-bang control shorelines oculometers automatic control sounds (topographic features) measuring instruments . off-on control thermal pollution optical measuring instruments RT ∞ control tidal flats oculometers control equipment tide powered generators optical equipment control theory water color . optical measuring instruments proportional control water depth oculometers servocontrol water resources eye movements solenoid valves waterwave energy conversion ∞ instruments offshore docking optical tracking Octahedral Research Satellites GS maneuvers USE Environmental Research Satellites oculomotor nerves . docking GS anatomy . offshore docking octahedrite . nervous system artificial harbors USE anatase . . nerves cargo ships ... oculomotor nerves deepwater terminals octahedrons . sense organs marine technology geometry . . eye (anatomy) marine transportation . Euclidean geometry . oculomotor nerves oceanography . . polyhedrons RT ship terminals ... octahedrons tanker ships **ODAS** tanker terminals octane ocean data acquisitions systems USF (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) ∞ tankers terminal facilities odd-even nuclei transportation RT antiknock additives particles . charged particles offshore energy sources . . energetic particles crude oil RT octane number . . . nuclei (nuclear physics) deepwater terminals RT gasoline . . . odd-even nuclei drilling . corpuscular radiation energy technology marine technology octanes . . energetic particles (ACYCLIC HYDROCARBONS) SN ... nuclei (nuclear physics) ocean temperature organic compounds ... odd-even nuclei oil exploration . hydrocarbons even-even nuclei oil fields . . aliphatic hydrocarbons odd-odd nuclei sea breeze . . . alkanes seepage . . . octanes odd-odd nuclei RT antiknock additives GS particles offshore platforms ∞ octane . charged particles RT artificial harbors . . energetic particles cargo ships . . . nuclei (nuclear physics) deepwater terminals DEF The intervals between two frequencies odd-odd nuclei marine technology having the ratio 1:2. . corpuscular radiation oceanography range (extremes) . . energetic particles ∞ platforms . frequency ranges ... nuclei (nuclear physics) tanker ships octaves .. odd-odd nuclei tanker terminals acoustics even-even nuclei ∞ tankers music nuclear structure terminal facilities ∞ nuclei octets transportation odd-even nuclei valence GS offshore reactor sites octets Odessa meteorite GS sites RT atomic structure GS celestial bodies . offshore reactor sites chemical bonds . meteorites reactor design . . iron meteorites reactor safety octoates . . . Odessa meteorite reactor technology

odors

air pollution

GS

esters

	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
OFT 4		UF	OGO-E		passenger aircraft
OFT 1 USE	Space Transportation System 1	GS	artificial satellites		OH-5 helicopter
UUL	flight		. geophysical satellites OGO		V/STOL aircraft . rotary wing aircraft
	3		OGO-5		helicopters
OFT 2	O T		observatories		light helicopters
USE	Space Transportation System 2 flight		. geophysical observatories		OH-5 helicopter
	mgm		OGO <b>OGO-5</b>		military helicopters
OFT 3		RT	geodesy	RT	rigid rotor helicopter
USE	Space Transportation System 3		goodos,		rigid rotor richeopters
	flight	OGO-6	000.5		elicopter
OFT 4		UF GS	OGO-F artificial satellites	UF	HO-6 helicopter
USE	Space Transportation System 4	do	. geophysical satellites	GS	LOH helicopter Hughes aircraft
	flight		OGO	ao	. OH-6 helicopter
ogee sh	nape		POGO		light aircraft
GS	shapes		OGO-6		. light helicopters
	ogee shape		observatories . geophysical observatories		OH-6 helicopter
RT	variable sweep wings		OGO		observation aircraft . OH-6 helicopter
ogee wi	nas		POGO		V/STOL aircraft
	variable sweep wings		OGO-6		. rotary wing aircraft
		OGO-A			helicopters
ogives DEF	Bodies of revolution formed by rotating	UF	S-49 satellite		light helicopters
	ar arc about an axis that intersects the	GS	artificial satellites		OH-6 helicopter military helicopters
	shape of these bodies; also noses of		. geophysical satellites		OH-6 helicopter
	es or the like so shaped.		OGO		•
RT	bodies of revolution		OGO-A observatories		helicopter
	ellipsoids fairings		. geophysical observatories	UF	H-13 helicopter
	nose cones		OGO		Sioux helicopter UH-13 helicopter
	spheres		OGO-A	GS	Bell aircraft
	streamlined bodies	RT	Atlas Agena launch vehicles		. OH-13 helicopter
	symmetrical bodies	OGO-B			light aircraft
ogo		USE	OGO-3		. OH-13 helicopter V/STOL aircraft
UF	Orbiting Geophysical Observatory				. rotary wing aircraft
GS	artificial satellites	OGO-C UF	S E0 catallita		helicopters
	. geophysical satellites	GS	S-50 satellite artificial satellites		military helicopters
	<b>OGO</b> EGO	40	. geophysical satellites		OH-13 helicopter
	OGO-3		OĠO	OH 22 I	haliaantar
	OGO-5		POGO	UF	helicopter H-23 helicopter
	OGO-A		OGO-C observatories	0.	Raven helicopter
	POGO OGO-4		geophysical observatories		UH-12 helicopter
	OGO-4 OGO-6		OGO	GS	Fairchild-Hiller aircraft
	OGO-C		POGO		. OH-23 helicopter light aircraft
	observatories		OGO-C		. OH-23 helicopter
	. geophysical observatories	OGO-D			V/STOL aircraft
	<b>OGO</b> EGO		OGO-4		. rotary wing aircraft
	OGO-3				helicopters
	OGO-5	OGO-E			military helicopters OH-23 helicopter
	OGO-A	USE	OGO-5		On-23 hencopter
	POGO	OGO-F		OH-58 I	helicopter
	OGO-4 OGO-6		OGO-6	GS	9
	OGO-C				. light helicopters
RT	Gamma Ray Observatory		elicopter		OH-58 helicopter V/STOL aircraft
000 1		UF GS	HO-4 helicopter Bell aircraft		. rotary wing aircraft
OGO-3 UF	OGO-B	dS	. OH-4 helicopter		helicopters
GS	artificial satellites		light aircraft		light helicopters
	. geophysical satellites		. light helicopters		OH-58 helicopter military helicopters
	OGO		OH-4 helicopter		OH-58 helicopter
	OGO-3 observatories		observation aircraft . OH-4 helicopter		On so hencopier
	geophysical observatories		V/STOL aircraft	Ohio	
	. OGO		. rotary wing aircraft	GS	nations
	OGO-3		helicopters		. United States
RT	Thor Agena launch vehicle		light helicopters	RT	<b>Ohio</b> Ohio River (US)
OGO-4			OH-4 helicopter military helicopters	111	Wabash River Basin (IL-IN-OH)
UF	OGO-D		OH-4 helicopter		
GS	artificial satellites		·		iver (US)
	. geophysical satellites		elicopter	GS	rivers
	POGO	UF	FH-1100 helicopter HO-5 helicopter	RT	. Ohio River (US) Illinois
	<b>OGO-4</b>	GS	Fairchild-Hiller aircraft	111	Indiana
	observatories		. OH-5 helicopter		Kentucky
	. geophysical observatories		Hiller aircraft		Ohio
	OGO		. 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 DEF The current in an electric circuit is inversely proportional to the resistance of the areases Oman hydraulic fluids circuit and is directly proportional to the electro-GS nations kerogen lipid metabolism lubricants motive force in the circuit. Ohm's law applies, . 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 DEF 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 RT Lake Texoma (OK-TX) ∞ 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 . . . baryons which petroleum is obtained; may correspond to organic compounds . . . . omega-mesons an oil pool or may be circumscribed by political . carboxylic acids . . hadrons or legal limits. . . fatty acids . . . baryons GŠ resources ... oleic acid . omega-mesons . Earth resources . . . mesons . oil fields olfactory perception . omega-mesons crude oil UF smell . nuclear particles drilling GS perception . . bosons methane . sensory perception ... mesons natural gas 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)

oligomers

. dimers

trimers

monomers

polymer chemistry

polymerization

GS

RT

GS

RT

pollution

. environment pollution

environmental cleanup

. . water pollution

coastal ecology

. . oil pollution

GŠ

UF

GS

. cyclotrons

Omicron Ceti star

. . 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
	cool stars		heating equipment		nodrophysiology
	Mira variables		life support systems	oocytes	
	Omicron Ceti star		lighting equipment	USE	gametocytes
	variable stars		radar equipment		
	Mira variables		radio equipment	Oort cl	
	Omicron Ceti star		spacecraft instruments	DEF	A region of millions of comets between
			stowage (onboard equipment)	30.000	and 100,000 A.U. from the sun. Comet
omnidire	ectional antennas				turbed out of the Oort cloud by passing
			survival equipment		nd fall into the inner solar system. The
	antennas		telecommunication		
	omnidirectional antennas		∞ test equipment		oud was named after the Dutch astrono
	monopole antennas		training devices	,	n Hendrik Oort.
	whip antennas			RT «	∞ clouds
	turnstile antennas	oncog	enes		comet nuclei
RT	dipole antennas	(add	led July 2002)		comets
	directional antennas		Genes that have the potential of turn-		Hale-Bopp comet
	microwave antennas		normal cell into one that is cancerous.		Kuiper belt
		UF			•
	radio antennas	UF	cancer genes		Nemesis (star)
			transforming genes		solar system
	ectional radio ranges	GS	genes		trans-Neptunian objects
GS	navigation aids		. oncogenes		
	. beacons	RT	cancer	opacifi	ers
	radio beacons		gene expression	GS	additives
	omnidirectional radio ranges		mutations		. opacifiers
	self calibrating omnirange		matations	RT a	∞ agents
		ono di	mensional flow	111	fillers
	radio equipment				illers
	. radio transmitters	GS	fluid flow		
	radio beacons		. one dimensional flow	opacity	
	omnidirectional radio ranges	RT	annular flow	DEF	Of an optical path, the reciprocal of
	self calibrating omnirange		axial flow	transmi	ssion.
	transmitters		core flow	GS	electromagnetic properties
	. radio transmitters		flow geometry	0.0	. optical properties
	radio beacons		Hugoniot equation of state	DT	opacity
	omnidirectional radio ranges		three dimensional flow	RT	absorptance
	self calibrating omnirange		two dimensional flow		absorptivity
RT	distance measuring equipment				acoustics
	radio navigation	one-ph	ase flow		atmospheric optics
	solar compasses	USE	single-phase flow		attenuation coefficients
	solal compasses		• .		clarity
Omninal	IIC 2 balicantes	onisotr	ODV		•
	HC-3 helicopter		anisotropy		density (mass/volume)
USE	HC-3 helicopter	002	amoon opy		electromagnetic absorption
		on-line	programming		haze
Omnipol	L-29 aircraft				Kramers-Kronig formula
USE	L-29 jet trainer	GS	computer programming		light (visible radiation)
	•		. on-line programming		light transmission
Omninol	Z-37 aircraft				refractivity
	Z-37 aircraft	on-line	systems		•
UUL	2-57 dilcidit	DEF	Systems where the input data enters		translucence
		the cor	mputer directly from the point of origin		transmission efficiency
	ge navigation		in which output data is transmitted di-		transmissivity
USE	VHF omnirange navigation		where it is used.		transparence
					turbidity
onboard	computers	R I	client server systems		underwater optics
USE	airborne/spaceborne computers		computer programs		visibility
			computer techniques		1.0.0
onhoard	data processing		data management	onolog	2020
			data processing	opales	
	Processing of acquired data aboard an		information retrieval	RT	
	satellite, etc., rather than transmission		information systems		optical properties
to ground	d 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
	flight management systems		websites		open channel flow
	image processing	Onsag	er phenomenological coefficient		. liquid flow
	microprocessors	GS	coefficients		open channel flow
	real time operation	30	Onsager phenomenological	RT	,
	signal processing				laminar flow
	-	57	coefficient		meanders
onboard	equipment	RT	flux density		pipe flow
	onboard equipment		plasmas (physics)		turbulent flow
	. airborne equipment		statistical mechanics		water flow
			variational principles		water now
	airborne/spaceborne computers		• •		
	. Light Airborne Multipurpose	Onsag	er relationship		ircuit voltage
	System		∞ equilibrium		The steady state or equilibrium poten
	. TERCOM	111	irreversible processes	tial of ar	n electrode in absence of external curren
	. airborne lasers			flow to	or from the electrode.
	. aircraft equipment		thermodynamics	GS	potential energy
	bombing equipment		_	40	. electric potential
		Ontario			
	ejection seats	GS	nations		open circuit voltage
	flying ejection seats		. Canada	RT	bias
	TERCOM		Ontario		capacitance
	. spacecraft equipment				electrical properties
	spacecraft electronic equipment	ontoge	nesis		electrical resistivity
	airborne surveillance radar	USE	ontogeny		electromotive forces
	aircraft	30L	90)		energy conversion efficiency
		ontogo	nnv		
	bubble technique	ontoge			overvoltage
	crew procedures (preflight)	UF	ontogenesis	c	∞ potential

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** 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. licensing GS 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

power gain

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) occupational diseases radiation hazards

operational problems

RT airline operations

systems engineering

air traffic control

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

∞ operations

∞ problems

∞ operations

SN

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  $RT \, {\it \infty} \, applications \, \, of \, \, mathematics \, \,$ 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 switching circuits optical correction procedure 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 GS coatings instrument errors matrix theory . optical coatings lens design ∞ operators . birefringent coatings ∞ optics perturbation theory antireflection coatings photographic measurement S matrix theory coating electromagnetic scattering photographs position errors operators (personnel) seeing (astronomy) alass GS personnel lenses segmented mirrors operators (personnel) self focusing light scattering . . 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. optical countermeasures laser communication RT cloud physics DEF Equipment for exploiting the vulner-ability of laser guided weapon systems. light communication ∞ clouds optical signals interstellar gas telecommunication . communication GS countermeasures interstellar matter . 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) eye diseases optical coupling quantum communication satellite communication GS coupling eye examinations space communication . electromagnetic coupling miosis spacecraft communication . optical coupling vestibular nystagmus tunable lasers RT couples visual signals cross coupling Opik theory cross polarization wireless communication RT nebulae laser arrays Orion constellation optical computers laser mode locking 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 chromophores data acquisition optical computers 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 optical amplifiers
USE light amplifiers optical interconnects light valves optical computers optical memory (data storage) optical correlators

optical control

(added September 1993)

The control of light sensitive devices

optical disks

∞ optics

optical relay systems

optical bistability

DEF A property of certain materials in which

a nonlinear response is exhibited when under

	photonics		. eyepieces		refracting telescopes
~	processing		. heliometers		reticles
	readers scanners		pyroheliometers		Scanner project scanners
	tomography		. image converters celescopes		spectrometers
	g,		. image tubes		telescopes
	data storage materials		thermicons		tripods
GS	optical materials		. laser doppler velocimeters		video equipment
RT ∝	. <b>optical data storage materials</b> data		. optical gyroscopes		
	data recording		. optical measuring instruments	optical	
	data storage		cathetometers	GS	fibers . optical fibers
	laser applications		diffractometers Ebert spectrometers		scintillating fibers
	optical bistability optical memory (data storage)		ellipsometers		optical materials
~	optics (data storage)		etalons		. optical fibers
	photographic film		geodimeters		scintillating fibers waveguides
	video disks		haploscopes		optical waveguides
	dana Mari		infrared spectrometers filter wheel infrared spectrometers		optical fibers
optical	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 fiber lasers
	microdensitometers		oculometers		fiber optics
~	optics translucence		optical pyrometers optical range finders		fly by light control
	transmittance		laser range finders		glass fibers
	transparence		photogoniometers		numerical aperture
	turbidity		photometers		optical communication plastic fibers
	underwater optics		electrophotometers ultraviolet spectrometers		transmission lines
ontical	depolarization		high dispersion spectrographs		
RT	light (visible radiation)		Total Ozone Mapping	optical	filters
	optics		Spectrometer	GS	electromagnetic wave filters
	polarized light		quantum well infrared		. optical filters
ontical	lanth		photodetectors ultraviolet spectrophotometers		birefringent filters
optical o	optical thickness		polarimeters		infrared filters ultraviolet filters
002	opiloai anomiooo		reflectometers	RT	adaptive filters
optical			microwave reflectometers		apodization
UF	compact disk read-only memory		refractometers sextants		bandpass filters
GS	devices computer components		spectrophotometers		bandstop filters
40	. computer storage devices		infrared spectrophotometers		Bragg gratings diaphragms (mechanics)
	optical disks		ultraviolet spectrophotometers		didymium
RT	CD-ROM		transits		electric filters
	data storage		theodolites cinetheodolites		filtergrams
	laser applications optical data processing		transmissometers		∘ filters ∘ gratings
	optical equipment		. optical microscopes	0	gratings (spectra)
	optical memory (data storage)		. optical scanners		high pass filters
	video disks		flying spot scanners		lenses
optical e	mission		multispectral band scanners thematic mappers (LANDSAT)		low pass filters
USE	light emission		. periscopes		optical relay systems optics
			photographic rectifiers		photographic equipment
	emission spectroscopy		. polariscopes		photographic film
GS	spectroscopy . optical emission spectroscopy		Senarmont polariscopes . prisms		Rowland circles
	. laser spectroscopy		. scatter plates (optics)		sunglasses transmission
	optogalvanic spectroscopy		. spectroheliographs		tunable filters
RT	auroral spectroscopy		. stroboscopes		tariable intere
	electron spectroscopy	DT	. wide angle lenses	optical	flow (image analysis)
	emission spectra light (visible radiation)	RT	absorption spectroscopy acoustic microscopes		ed May 1993)
~	optics		circumsolar telescopes	RT	
	•		densitometers		image analysis
	equipment		Fabry-Perot spectrometers		image processing optics
GS	optical equipment . binoculars		geometrical optics horizon scanners	Ö	scene analysis
	. cameras		infrared interferometers		three dimensional motion
	Baker-Nunn camera		infrared scanners		
	ballistic cameras		interferometers	optical g	generators
	CCD cameras		lenses	USE	laser cavities
	Delft camera diffraction limited cameras		look angles (electronics)  Mach-Zehnder interferometers		
	. faint object camera		microchannels		gyroscopes
	high speed cameras		microscopes	GS	gyroscopes . optical gyroscopes
	framing cameras		mirrors		optical equipment
	digital cameras I2S cameras		monochromators optical bistability		optical gyroscopes
	Lallemand cameras		optical distability	RT	laser gyroscopes
	multispectral band cameras		optical computers	٥	optics
	panoramic cameras		optical control		Sagnac effect
	pinhole cameras		optical disks		hatavadımi
	Schmidt cameras streak cameras	c	∞ optics optogalvanic spectroscopy	optical GS	heterodyning heterodyning
	television cameras		photographic equipment	GS	. 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 spectroscop	
. illusions	polarimeters	infrared spectrophotometers
optical illusion	pressure sensitive paints	ultraviolet spectrophotometers
elevator illusion	ray tracing	transits
RT moon illusion	reflectance	theodolites
∞ optics	reflectometers	cinetheodolites
op.::00		
optical images	refractometers	. transmissometers
USE images	Ronchi test	RT absorption spectroscopy
OOL IIIIages	spectral signatures	cinespectrographs
antical interconnects	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	
optical computers	GS measuring instruments	interferometers
optical switching	. optical measuring instruments	laser doppler velocimeters
optoelectronic devices	cathetometers	Mach-Zehnder interferometers
		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	
USE lasers	infrared spectrometers	optogalvanic spectroscopy
	filter wheel infrared spectromete	periscopes
optical materials	light scattering meters	polarifietry
(added September 1988)		polariscopes
GS optical materials	microdensitometers	radiation measuring instruments
. glass fibers	nephelometers	reflecting telescopes
. optical data storage materials	oculometers	refracting telescopes
	optical pyrometers	self focusing
. optical fibers	optical range finders	Senarmont polariscopes
scintillating fibers	laser range finders	·
RT aspheric optics	photogoniometers	solar instruments
chromophores	photometers	telephotometry
glass	electrophotometers	telescopes
infrared windows	·	
lenses	ultraviolet spectrometers	optical memory (data storage)
∞ materials	high dispersion spectrographs	GS memory (computers)
	Total Ozone Mapping	optical memory (data storage)
materials selection	Spectrometer	RT associative memory
mirrors	quantum well infrared	CD-ROM
optical coatings	photodetectors	
windows (apertures)	ultraviolet spectrophotometers	coherent light
	polarimeters	computer storage devices
optical measurement	reflectometers	∞ data
SN (MEASUREMENTS OF OPTICAL		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	•
astronomical photometry	transits	∞ optics
stellar spectrophotometry	theodolites	video disks
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	OOL Optics
astronomical polarimetry	etalons	autical microscopes
		optical microscopes
RT chemical analysis	geodimeters	GS microscopes
collimators	haploscopes	optical microscopes
densitometers	. infrared spectrometers	optical equipment
diffractometers	filter wheel infrared spectromete	ers optical microscopes
electro-optical photography	. light scattering meters	RT electron microscopes
ellipsometry	microdensitometers	∞ optics
emissivity	nephelometers	οριίου
etalons	oculometers	ontical modulation
Faraday effect		optical modulation
•	optical pyrometers	USE light modulation
gamma ray spectrometers	optical range finders	antinal matter
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	· · · · · · · · · · · · · · · · · · ·
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
optioo	renectornetera	andorwator optios

Voigt effect ∞ physical properties . optical reflection wave dispersion polarization (waves) antireflection coatings properties electromagnetic absorption ∞ solid state physics geometrical optics optical polarization incident radiation surface properties 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 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 glass lasers imaging techniques **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 GS emission ∞ optics . . . 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  $\infty$  optics optical reflection optical pyrometers
DEF Devices for measuring the temperaplasma radiation . . phosphorescence plasma spectra ture of an incandescent radiating body by comparing its brightness for a selected wavelength photoconductivity resonance lines . photoviscoelasticity spectrum analysis . . radiance interval within the visible spectrum with that of a . . reflectance optical resonators standard source; a monochromatic radiation py-... bidirectional reflectance rometer. GS resonators . . . spectral reflectance GS measuring instruments optical resonators .. 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 DEF A light source and phototube combined . optical radar 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 glare optical range finders . optical scanners glass gradient index optics . . flying spot scanners GS measuring instruments haze distance measuring equipment . . multispectral band scanners infrared absorption . thematic mappers (LANDSAT) . . range finders isotropy ... optical range finders RT character recognition Kerr magnetooptical effect . laser range finders data acquisition light (visible radiation) . optical measuring instruments monitors light transmission . . optical range finders ∞ optics lumens ... laser range finders 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  $\infty$  orientation USE optical communication optical reflection photoelectricity electromagnetic properties

. optical properties

reflection

optical reflection

photons

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) optical pumping waveguides GS . optical waveguides
. . optical fibers 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 optical transition waveguide lasers 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 DFF Branch of physical science concerned 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 or emitting material lying in a vertical column of the transfer of radiant energy, the mass of a given absorbing 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 spectroscopy angular resolution squeezed states (quantum theory) aspheric optics asphericity underwater optics astigmatism x ray optics atmospheric optics atom optics RT antireflection coatings optimal control Cassegrain optics Fermat principle 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 RT ballistic cameras . . H-2 control electro-optical photography boresight error . . H-infinity control
. . linear quadratic Gaussian control electro-optics boresights fiber optics compensatory tracking time optimal control foci Global Tracking Network RT adaptive control Fresnel lenses infrared tracking ∞ control geometrical optics minitrack system control systems design control theory multiple target tracking gradient index optics 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

optical flow (image analysis)

optical gyroscopes

optical heterodyning

. . linear quadratic Gaussian control

. mathematical programming

. . dynamic programming

optical transition

electron transitions

emission spectra

linear programming .	voltage and current changes upon laser	irradia- quadratures
nonlinear programming quadratic programming	tion. GS spectroscopy	and the standard
. nultidisciplinary design optimization	,	orbit decay
	. absorption spectroscopy	RT aerodynamic drag
. operations research	optogalvanic spectroscopy	
. optimal control	optical emission spectroscopy	•
H-2 control	laser spectroscopy	orbital mechanics
H-infinity control	optogalvanic spectroscop	satellite lifetime
linear quadratic Gaussian control	utilization	spacecraft breakup
time optimal control	. laser applications	
. design optimization	laser spectroscopy	orbit determination
. simplex method	optogalvanic spectroscop	(added December 1998)
. trajectory optimization	RT flame spectroscopy	GS orbit determination
. shape optimization	Fraunhofer lines	. airborne range and orbit
RT ∞ applications of mathematics	gas spectroscopy	determination
backpropagation (artificial intelligence)	infrared spectroscopy	. orbit calculation
Bellman theory	molecular spectroscopy	minimum variance orbit
Bolza problems	optical equipment	determination
constraints	optical measuring instruments	orbital position estimation
correlation	Raman spectroscopy	RT Global Positioning System
∞ design	ultraviolet spectroscopy	position errors
design analysis	volt-ampere characteristics	satellite tracking
differential calculus	voit ampore enaracionette	space navigation
efficiency		
extremum values	optometry	spacecraft control
	GS optical measurement	spacecraft position indicators
games	. optometry	
gradients	RT anastigmatism	orbit equations
greedy algorithms Hessian matrices	blindness	USE orbital mechanics
	eye (anatomy)	
Kalman filters	haploscopes	orbit insertion
Kalman-Schmidt filtering	∞ measurement	(added January 1991)
Lagrange multipliers	medical science	DEF The process by which a spacecraf
least squares method	vision	enters into a desired orbit around a celestia
maxima		body.
minima	oral hygiene	GS insertion
parameter identification	GS hygiene	. orbit insertion
penalty function	. oral hygiene	RT ascent trajectories
planning	RT cleanliness	orbital maneuvers
pontryagin principle	dentistry	orbital mechanics
quality control	health	payload delivery (STS)
range (extremes)		satellite orbits
∞ reduction	public health	spacecraft launching
scheduling	teeth	spacecraft maneuvers
sensitivity analysis	tooth diseases	spacecraft orbits
simulated annealing		transfer orbits
static models	oratory	transier orbits
steepest descent method	USE public speaking	Orbit Managuraring Engine (Chase Chuttle)
stopping		Orbit Maneuvering Engine (Space Shuttle) UF OME
system identification	ORBIS	GS engines
Taguchi methods	UF orbiting radio beacon ionospher	wia C
trajectory control	sounder	. rocket engines
Wiener filtering	GS artificial satellites	microrocket engines
Thomas into inig	. scientific satellites	Orbit Maneuvering Engine
optimum control	ORBIS	(Space Shuttle)
USE optimal control	ORBIS CAL satellite	RT Aeromaneuvering Orbit to Orbit
COL Optimal Control		Shuttle
optimum thrust programming		orbital maneuvers
USE thrust programming	ionospheric sounding	space shuttles
OSE tillust programming	radio beacons	
options		orbit perturbation
RT alternatives	ORBIS CAL satellite	UF evection
contracts	GS artificial satellites	GS perturbation
selection	. gravity gradient satellites	. orbit perturbation
site selection	. ORBIS CAL satellite	satellite perturbation
	. scientific satellites	RT drift rate
subcontracts	ORBIS	long term effects
antaglastronia devisas	ORBIS CAL satellite	lunar effects
optoelectronic devices	RT ionospheric propagation	orbital elements
DEF Electronic devices combining optic and	ionospheric sounding	orbital mechanics
electric ports.	radio beacons	orbital resonances (celestial
GS optoelectronic devices		mechanics)
. light emitting diodes	aulaita a alla selati a u	perturbation theory
. photodiodes	orbit calculation	Schach effect
. phototransistors	UF satellite orbit calculation	vinti theory
RT electro-optics	GS computation	viila alooty
fiber optics	orbit calculation	arbit anastrum utilization
free-space optical interconnects	minimum variance orbit	orbit spectrum utilization
integrated circuits	determination	DEF Telecommunication techniques in
integrated optics	orbital position estimation	spectrum conservation for reducing user costs
microoptoelectromechanical systems	orbit determination	RT communication satellites
optical interconnects	. orbit calculation	frequency assignment
optical switching	minimum variance orbit	radio relay systems
photonics	determination	satellite orbits
	orbital position estimation	systems engineering
optoelectronic switching	RT flight mechanics	television systems
USE optical switching	Goddard Trajectory Determination	on
	System	orbit transfer vehicles
optogalvanic spectroscopy	orbital elements	DEF Concept of propulsive (velocity pro-
DEF A method of obtaining absorption	orbital mechanics	ducing) rockets or stages for use with crew
spectra of atomic and molecular species in	orbital resonances (celestial	transfer modules, manned sortie modules, o
flames and electrical discharges by measuring	mechanics)	other payloads. Used for OTV.

OTV UF Earth orbits two body problem GS orbit transfer vehicles . Aeromaneuvering Orbit to Orbit orbital motion orbital maneuvering vehicles Shuttle USE orbits orbit transfer vehicles Inertial Upper Stage RT orbital servicing orbital position estimation orbital maneuvering vehicles 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 space shuttles orbit determination . orbit calculation space transportation GS maneuvers . 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 UF orbit equations space erectable structures mechanics (physics) GS orbital rendezvous Space Operations Center (NASA) . classical mechanics UF satellite rendezvous Space Station Mobile Servicing . . space mechanics . . . orbital mechanics maneuvers System . orbital maneuvers space station modules . . . . Kepler laws . . orbital rendezvous space station structures . . . . minimum variance orbit . . . Earth orbital rendezvous spacecraft modules determination . . lunar orbital rendezvous spacecraft structures RT Aeromaneuvering Orbit to Orbit rendezvous Shuttle . space rendezvous orbital breakup apsides . . orbital rendezvous USE spacecraft breakup ... Earth orbital rendezvous astrodynamics celestial mechanics . lunar orbital rendezvous orbital elements circular orbits Atlas launch vehicles DEF A set of seven parameters defining the drift rate autonomous docking orbit of a body attracted by a central, inverse multiple docking adapters payload retrieval (STS) Earth orbital rendezvous square force. Earth orbits RT apsides rendezvous guidance rendezvous spacecraft Earth-Mars trajectories ∞ elements Earth-Mercury trajectories orbit calculation rendezvous trajectories spacecraft docking Earth-Moon system orbit perturbation elliptical orbits orbits equatorial orbits spacecraft trajectories perihelions flight mechanics tetherina perturbation theory flight optimization Goddard Trajectory Determination orbital resonances (celestial mechanics)
DEF Systems of two or more satellites (including planets) that orbit the same primary and Orbital Flight Test 1 (shuttle) System USE Space Transportation System 1 Hansen lunar theory flight Hill lunar theory whose orbital mean motions are in a ratio of Hill method small whole numbers. Orbital Flight Test 2 (shuttle) interplanetary trajectories interplanetary transfer orbits Lagrangian equilibrium points lunar orbital rendezvous GS resonance USE Space Transportation System 2 . orbital resonances (celestial flight mechanics) astrodynamics Orbital Flight Test 3 (shuttle) lunar orbits celestial mechanics USE Space Transportation System 3 many body problem moon-Earth trajectories 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)
USE Space Transportation System mechanics) planetary orbits 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 trajectory analysis transearth injection orbit, usually based on such criteria as solar flux payload transfer density, atmospheric density, the lessening of the eccentricity of elliptical orbits, or the gravita-tional effects of the sun or the moon. Space Operations Center (NASA) space platforms transfer orbits Space Shuttle payloads Space Station Freedom 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 space tugs 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 environmental tests four body problem ground tracks large space structures space mechanics spaceborne experiments **Orbiting Frog Otolith** ∞ inclination space stations biological effects 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 hypervelocity lunar bases orchards velocity errors ∞ spacecraft agriculture RT orbiting radio beacon ionospheric sounder blight orbital workers **ORBIS** citrus trees 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 electron clouds RT 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 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 tanks (combat vehicles) trajectories . . transfer orbits . molecular orbitals . . interplanetary transfer orbits 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> RT Cascade Range (CA-OR-WA)	cysteine	durene
Columbia River Basin (ID-OR-WA)	dopa	indene
Columbia Tilvor Bacili (18 OTT VIVI)	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 norleucine	adenosines adenosine diphosphate
GS culture techniques	lysine	adenosine dipriospriate
. organ culturing	melanoidin	adenosine triphosphate
RT cell culturing 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	lysergine
. organ weight	guanosines	morphine
ermonellee	polysaccharides cellulose	nicotinamide
organelles	Fortisan (trademark)	nicotine pilocarpine
GS organelles . 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	methylene blue
cytoplasm	sucrose	phenothiazines
	hexoses	azoles
organic aluminum compounds	galactose	acetazolamide
GS aluminum compounds	glucose	oxazole
. <b>organic aluminum compounds</b> organometallic compounds	pentose ribose	pyrroles 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	cytidylic acid
. organic boron compounds	citric acid	dimenhydrinate
organic compounds	dicarboxylic acids	endrin
organic boron compounds	fatty acids	ethylene oxide
RT ∞ chemical compounds	acetic acid	folic acid
and the state of t	ethylenediaminetetraacetic acids	furans
organic charge transfer salts	iodoacetic acid	tetrahydrofuran
DEF Organic compounds exhibiting temperature-dependent electrical, magnetic,	acetylsalicylic acid benzilic acid	guanetȟidine 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	palmitic acid	piperidine
organic superconductors	propionic acid	promethazine
∞ salts	sebacic acid	purines
semiconductors (materials)	valeric acid	adenines
	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 oxides, metallic carbonates, carbides, and carbon-	lactic acid	pyridoxine
sulfur and carbonaites, carbides, and carbon-	lysine nicotinic acid	pyrimidines alloxan
RT biochemistry	oxalic acid	thymidine
∞ chemistry	oxamic acids	thymine
cracking (chemical engineering)	tryptophan	uracil
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 stilbene . . . fibrinogen serotonin . . toluene . . . imidazoles . . . gamma globulin . . rhodamine . . triphenyls . . hemoglobin . diethyl compounds . . . carboxyhemoglobin . . xylene . . . 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 nitrofluoramines fats . . myosins . trifluoroamine oxide . . lipoproteins . . osteocalcin fluorocarbons phylloquinone . . phytochrome . . fluorohydrocarbons . . retinene . . proteinoids carbon tetrafluoride prothrombin . . steroids . . chlorofluoromethane protoproteins . . . cholesterol . . tumor suppressor proteins . nitriles . polytetrafluoroethylene . . . corticosteroids . teflon (trademark) . . . . aldosterone fluoropolymers
. polytetrafluoroethylene . . . hydroxycorticosteroid . . . . cortisone . quinoline . auinones . volatile organic compounds .... glucocorticoids
... estrogens
... prostaglandins
. tocopherol teflon (trademark) KEL-F ... polyvinyl fluoride
... perfluoroalkane . . acrylonitriles . . polyacrylonitrile
. malononitrile
. phosphonitriles . nucleic acids . . deoxyribonucleic acid . . complementary DNA perfluoroguanidine . hydrocarbons . succinonitrile ribonucleic acids . ethylene compounds . alkanes . . chloroethylene . . butanes . nucleotides . trichloroethylene . cetane . . adenines ethane . . adenosines ethoxy ethylene ... adenosine diphosphate . . . heptanes ethylene dihydrazine methane adenosine monophosphate ethylenediamine . nitropropane adenosine triphosphate ethylenediaminetetraacetic acids . . . nonanes . . . cyclic AMP succinonitrile octanes oligonucleotides . amines . . . paraffins . . aminophylline . . polynucleotides . ceresin pyridine nucleotides . . amphetamines . uridylic acid ... methamphetamine . . . pentanes . neopentane organic boron compounds . . aniline . . . propane . organic charge transfer salts . . catecholamine . . . alkenes organic germanium compounds epinephrine organic liquids . . . norepinephrine . . . butenes organic lithium compounds . . cysteamine ethylene organic peroxides . . diamines . vinylidene . hexenes . organic phosphorus compounds ethylenediamine . . . propylene . . phosphazene . . . guanidines trienes guanethidine phosphene . . phosphonitriles triaminoguanidinium azide . . . alkynes . . . acetylene . . . oxyacetylene uridylic acid difluorourea . organic silicon compounds dimenhydrinate dimenhydrinate
dimethylhydrazines
diphenyl hydantoin
ergotamine
fluoroamines
ditrifluoroamine s
trifluoroamine oxide triphenyl silicon
 organic sulfur compounds
 organic tin compounds
 pentanone dienes . . . butadiene heptadiene . . . hexadiene . . . polybutadiene peptides . . polypeptides . . gallamine triethiodide . . hexamethylenetetramine . angiotensins . glutathione . . carotene cubane cyanoacetylene cyclic hydrocarbons hypertensin . . histidine vasopressins . . hydroxylamine sulfate polynuclear organic compounds . anthracene hyoscine . . mecamylamine benzene propargyl groups chlorobenzenes proteins melamine colchicine . . albumins methylene diamine . . monoethanolamine (MEA) . cyclobutane . . aspartates cyclohexane calmodulin nitroamines cyclopropane . . elastin . . nitrosamine . durene enzymes promethazine . . . indene aldolase . . tetrafluorohydrazine menthol amidase tetryl . . . naphthalene carbonic anhydrase . . 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 aldehydes nuclease . polytetrafluoroethylene aliphatic compounds oxidase alkyl compounds . teflon (trademark) papain . . mesitylene pepsin ∞ aromatic compounds phosphatases . . methylene . . methylidyne chemical evolution protease . . natural gas esters renin

. . . thrombin

. . . liquefied natural gas

ethers

hydroxyl compounds metabolites methoxy systems methyl compounds nitroso compounds organic superconductors organic wastes (fuel conversion) organometallic compounds ∞ salts organic coolants GS coolants . organic coolants orgel reactor nuclear reactors . liquid cooled reactors

organic cooled reactors

organic cooled reactors

... experimental organic cooled reactors

reactor design reactor technology

organic fluorine compounds

USE fluorine organic compounds

organic germanium compounds

GS germanium compounds

organic germanium compounds

organic compounds organic germanium compounds

organometallic compounds organic germanium compounds

RT ∞ chemical compounds

∞ metal compounds

organic lasers

stimulated emission devices

. lasers

.. organic lasers

. . dye lasers RT carbon dioxide lasers carbon lasers chemical lasers gas lasers

infrared lasers liquid lasers

organic liquids

GS liquids

. organic liquids organic compounds

organic liquids pyruvates

xanthic acids

organic lithium compounds

lithium compounds

organic lithium compounds organic compounds

organic lithium compounds organometallic compounds

organic lithium compounds

RT ∞ chemical compounds

∞ metal compounds

organic materials

organic materials

peat

biodegradability

carbonaceous materials cork (materials)

cotton fibers elastomers linen

∞ materials molds

paper (material)

phase change materials

plastics ∞ polymers

rosin rubber

thermochromatic materials

wood

wool

organic moderated reactors

GS nuclear reactors

. organic moderated reactors

. . experimental organic cooled reactors

organic nitrates

GS esters

. organic nitrates

. . cellulose nitrate

. . nitroforms

. . . hydrazine nitroform

nitroglycerin

PETN

nitrogen compounds

. nitrates

. . organic nitrates

... cellulose nitrate

. . . nitroforms

. . . . hydrazine nitroform

. . . nitroglycerin

organic peroxides

Organic compounds containing radical groups combined with oxides in which two atoms of oxygen are linked together, e.g., diethyl peroxide.

GS chalcogenides

. oxides

. . anhydrides

... peroxides

organic peroxides organic compounds

organic peroxides
air pollution

hydrocarbons inorganic peroxides

organic phosphorus compounds

GS organic compounds

. organic phosphorus compounds

. . phosphazene

. . phosphene

. . phosphonitriles uridylic acid

phosphorus compounds

organic phosphorus compounds

. . phosphazene

phosphene

. . phosphonitriles

. uridylic acid

RT ∞ chemical compounds

organic semiconductors

semiconductors (materials)

organic semiconductors

RT ∞ chemical compounds conducting polymers

conductors

organic superconductors semiconductor devices

organic silicon compounds

GS organic compounds

. organic silicon compounds

. triphenyl silicon silicon compounds

organic silicon compounds

. . triphenyl silicon

RT ∞ chemical compounds

organic solids

DEF Solid materials composed of organic materials

GS solids

organic solids

astronomical spectroscopy cosmic dust

dissolved organic matter planetary atmospheres

organic sulfur compounds

GS organic compounds

organic sulfur compounds

sulfur compounds

. organic sulfur compounds

RT ∞ chemical compounds

organic superconductors

(added May 1991)

GS conductors

. superconductors (materials)

. organic superconductors organic charge transfer salts

organic compounds organic semiconductors

organic tin compounds

GS organic compounds
organic tin compounds

organometallic compounds organic tin compounds

tin compounds

organic tin compounds

 $RT \propto chemical \ compounds$ 

∞ metal compounds

organic wastes (fuel conversion)

RT ∞ conversion energy conversion garbage

human wastes metabolic wastes organic compounds

residues sewage sludge wastes

organisms

RT animals biomass carbon cycle deep scattering layers plants (botany)

organizations

associations

organizations

European Space Agency

. federations

. bureaus (organizations)

. ISRO

. North Atlantic Treaty Organization

(NATO) World Meteorological Organization teams

United Nations

organizing

personnel RT unionization

organometallic compounds

metallorganic compounds

organometallic compounds

. chlorophylls

. ferrocenes . alkylferrocene

. hemoglobin . . carboxyhemoglobin

. oxyhemoglobin

. organic aluminum compounds

organic germanium compounds

metalorganic chemical vapor

. organic lithium compounds . organic tin compounds

. porphines alkoxides

chelates ∞ chemical compounds

∞ metal compounds metalloids

deposition organic compounds synthetic metals tetrabutyls

organometallic polymers

metallosiloxane polymers metalloxane polymers

dendrimers polycarbosilanes

∞ polymers

	polysilanes		supercritical flow		Orionia meteorolas . meteoroids
organor	metallic vapor deposition		turbulent flow		Orionid meteoroids
USE	metalorganic chemical vapor		unsteady flow	RT	Aquarid meteoroids
	deposition		unctoday non		, iqualia meteoreiae
		orifices		Orlicz s	pace
organs		RT	annular ducts	RT	set theory
SN	(FOR SPECIFIC ORGANS, ORGAN		apertures		•
	SUBSTRUCTURES AND ORGAN SYSTEMS SEE ANATOMY)		cavities	ornithop	ter aircraft
GS			chokes (fuel systems)	USE	research aircraft
	. viscera		chokes (restrictions)		
RT	anatomy		ducts	Ornstei	n-Uhlenbeck process
	cells (biology)		flow measurement	RT ∝	processes
	circulatory system		flowmeters		
	digestive system		gaps	orograpi	hic clouds
	gastrointestinal system		injectors	USE	cap clouds
	genitourinary system	000	nozzles		-
	glands (anatomy)		openings	orograp	hy
	respiratory system	000	operations	ĞS .	geography
	sense organs		orifice flow		orography
	tissue engineering		ports (openings)		geology
	tissues (biology)		spray nozzles		orography
	· • • • • • • • • • • • • • • • • • • •		throats	RT	cones (volcanoes)
OR-gate	es .		Venturi tubes		geomorphology
USE	gates (circuits)	0	(8)		isostasy
	3 (,		f Plasmas in Earth Neighborhood		Mars volcanoes
orgel re	actor	USE	OPEN Project		mountains
ÜSE	organic cooled reactors				peaks (landforms)
	<b>3</b>	∞ origins	(LIGE OF A MODE OPEOLEIO TERM IO		volcanoes
Oraueil	meteorite	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		volcanology
GS	celestial bodies		LISTED BELOW)		37
	. meteorites	RT	causes	orreries	
	stony meteorites		coordinates	USE	astronomical models
	carbonaceous meteorites		derivation		
	carbonaceous chondrites		graphs (charts)	Orr-Son	nmerfeld equations
	Orgueil meteorite		meteorite parent bodies		equations
	chondrites		petrogenesis		flow distortion
	carbonaceous chondrites				flow stability
	Orgueil meteorite	Orion (r	adio interferometry network)		flow theory
		DEF	An operational radio interferometry ob-		quantum mechanics
ORIC c	yclotron	servation	nal network.		velocity distribution
	Oak Ridge isochronous cyclotron	GS	networks		voiconty diotribution
002	can image lessificate eyelesion		. Orion (radio interferometry	orthicor	ne
orienta	tion		network)	GS	electron tubes
SN	(USE OF A MORE SPECIFIC TERM IS	RT	radio interferometers	GO	. camera tubes
	RECOMMENDEDCONSULT THE TERMS		radio receivers		orthicons
DT	LISTED BELOW)		tracking networks		image orthicons
RT	alignment			RT	image intensifiers
	attitude (inclination)	Orion ai			photocathodes
	azimuth	USE	P-3 aircraft		television cameras
	bearing (direction)				television equipment
	Bragg angle		onstellation		toloviolori oquipinioni
	collimation	GS	constellations	ortho h	ydrogen
	crystallography		Orion constellation	GS	gases
	directivity	RT	Opik theory	ao	. ortho hydrogen
	education		Orion nebula	RT	
	fiber orientation		Sigma Orionis		nyurogen
	field strength horizontal orientation	0 '		ortho n	ara conversion
			rew vehicle		isomerization
	instrument orientation	,	ed November 2006)	ao	. ortho para conversion
	isotropy	USE	Crew Exploration Vehicle	RT ~	conversion
	optical properties	Orion n	alauda.	111 ~	para hydrogen
	orbital position estimation				para riyurogeri
	ply orientation polarization (spin alignment)		An H 11 region about 500 pc distant	orthogo	nal functions
	polarization (waves)		ely visible to the naked eye in the center	GS	analysis (mathematics)
	position (location)	GS GS	's sword. celestial bodies	ao	. complex variables
	positioning	do	. nebulae		orthogonal functions
	sound localization				Walsh function
	vertical orientation		Orion nebula hydrogen clouds		functions (mathematics)
	vertical perception		. Orion nebula		. orthogonal functions
	visual perception	RT	astrophysics		Walsh function
	visual perception	וח	Cassiopeia A	RT	Bessel functions
orifice 1	flow		Crab nebula	111	exponential functions
GS	fluid flow		galaxies		function space
ao	. orifice flow		0		Hankel functions
RT	choked flow		Gum nebula interstellar gas		hyperbolic functions
	critical flow		interstellar matter		Laguerre functions
~	oflow		irregular galaxies		Legendre functions
~	gas flow		Magellanic clouds		linear transformations
	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
	pressure gradients		συροπονασ	RT	pulse communication
	single-phase flow	Orionid	meteoroids	111	signal transmission
	steady flow	GS	celestial bodies	~	theories
	steady flow steam flow	45	. meteoroid showers	ω.	wave interaction
	OLOGIN NOW		. motooroid showers		Wave interaction

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 . autodynes . crystal oscillators . piezoelectric crystals . harmonic oscillators variance (statistics) RT ∞ absorbers . . multivariate statistical analysis ∞ dampers . . orthogonality Maxwell bodies covariance 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 Fluctuations or vibrations on each side DEF . 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 frequency stability medical science electron oscillations GS harmonic oscillation . orthopedics frequency synthesizers harmonic generators . hydrofoil oscillations . molecular oscillations orthophotography 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 fluid shifts (biology) . transverse oscillation periodic variations perturbation head down tilt . H waves Madden-Julian Oscillation positive feedback head up tilt human tolerances resonant frequencies quasi-biennial oscillation undamped oscillations lower body negative pressure resonators posture amplitudes Brunt-Vaisala frequency self excitation semiconductor devices tilt-table test 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 UF shells (structural forms) GS ∞ rhythm measuring instruments . oscillographs GS . orthotropic shells cylindrical shells spacecraft motion 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 oscillator strengths plates (structural members) 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. line absorption spectra oscillations cathode ray tubes absorptivity electronic equipment tests vibration electron oscillations flying spot scanners electron transitions frequency analyzers oscillating flow oscillographs line spectra GS fluid flow sweep circuits . unsteady flow molecular oscillations oscillating flow sweep frequency molecular oscillators

oscillators

synchroscopes

RT

buffetina

	video equipment		water balance		solar observatories
		ocmotic			OSO
osculation USE	ons double cusps	USE	pressure osmosis		OSO-1 . geophysical observatories
USE	double cusps	oso			080
Oseen a	approximation	UF	Orbiting Solar Observatory	RT	<b>OSO-1</b> Delta launch vehicle
GS	analysis (mathematics)	GS	artificial satellites		Dona laurion vornolo
	. numerical analysis approximation		. geophysical satellites OSO	OSO-2 UF	OSO-B
	Oseen approximation		AOSO	Oi	S-17 satellite
RT	incompressible fluids Navier-Stokes equation		OSO-1	GS	artificial satellites
	Roshko prediction		OSO-2 OSO-3		. geophysical satellites OSO
	Stokes flow		OSO-4		OSO-2
	viscous fluids		OSO-5 OSO-6		. scientific satellites
osmium	1		OSO-0		astronomical satellites OSO
GS	chemical elements		OSO-8		OSO-2
	. osmium osmium isotopes		OSO-C . scientific satellites		observatories . astronomical observatories
	metals		astronomical satellites		astronomical satellites
	. refractory metals		<b>OSO</b> AOSO		OSO
	osmium osmium isotopes		OSO-1		OSO-2 solar observatories
	transition metals		080-2		OSO
	osmium osmium isotopes		OSO-3 OSO-4		OSO-2 . geophysical observatories
	refractory materials		OSO-5		OSO
	refractory metals		OSO-6 OSO-7	DT	OSO-2
	osmium osmium isotopes		OSO-7	RT	Delta launch vehicle
	comam loctopes		OSO-C	OSO-3	
osmium	n alloys		observatories . astronomical observatories	UF GS	OSO-E artificial satellites
GS	alloys . heat resistant alloys		astronomical satellites	ao	. geophysical satellites
	. refractory metal alloys		OSO		OSO
	osmium alloys		AOSO OSO-1		OSO-3 . scientific satellites
	refractory materials . refractory metal alloys		OSO-2		astronomical satellites
	. osmium alloys		OSO-3 OSO-4		OSO <b>OSO-3</b>
			OSO-5		observatories
	n compounds o chemical compounds		080-6		. astronomical observatories
	Group 8 compounds		OSO-7 OSO-8		astronomical satellites OSO
~	metal compounds		OSO-C		OSO-3
			solar observatories OSO		solar observatories OSO
GS	n isotopes chemical elements		AOSO		OSO-3
	. nuclides		080-1		. geophysical observatories
	isotopes osmium isotopes		OSO-2 OSO-3		OSO <b>OSO-3</b>
	. osmium		OSO-4		
	osmium isotopes		OSO-5 OSO-6	OSO-4 UF	OSO-D
	metals . refractory metals		080-7	GS	artificial satellites
	osmium		080-8		. geophysical satellites
	osmium isotopes . transition metals		OSO-C . geophysical observatories		OSO <b>OSO-4</b>
	osmium		. OSO		. scientific satellites
	osmium isotopes		AOSO OSO-1		astronomical satellites OSO
	refractory materials . refractory metals		OSO-1		OSO-4
	osmium		OSO-3		observatories
	osmium isotopes		OSO-4 OSO-5		. astronomical observatories astronomical satellites
osmom	eters		OSO-6		OSO
GS	measuring instruments		OSO-7 OSO-8		OSO-4 solar observatories
	. pressure gages		OSO-C		OSO
	osmometers	RT	sun		OSO-4
osmosi	s		Thor Delta launch vehicle		<ul><li>. geophysical observatories</li><li>. OSO</li></ul>
UF	hypertonia	<b>0SO-1</b> UF	090.4	D.T.	OSO-4
GS	osmotic pressure osmosis	UF	OSO-A S-16 satellite	RT	Delta launch vehicle
	. reverse osmosis	GS	artificial satellites	OSO-5	222.5
RT	cell membranes (biology) demineralizing		. geophysical satellites OSO	UF GS	OSO-F artificial satellites
	desalinization		<b>0S0-1</b>	uo	. geophysical satellites
	diaphragms (mechanics)		. scientific satellites		080
	diffusion extraction		astronomical satellites OSO		OSO-5 . scientific satellites
	homeostasis		OSO-1		astronomical satellites
	isotonicity membranes		observatories . astronomical observatories		OSO <b>OSO-5</b>
	permeating		. astronomical observatories		observatories
	pressure		OSO		. astronomical observatories
~	separation		OSO-1		astronomical satellites

	OSO OSO-5 solar observatories		OSO-C . scientific satellites astronomical satellites	included	he acronym is derived. The systems of the feature identification and location lent-1 (FILE-1), the measurement of at
	OSO OSO-5 . geophysical observatories		OSO Oso-C observatories	mosphe imaging	ric pollution from satellite (MAPS), the camera-B, and the large forma /attitude reference system (LFC/ARS)
	OSO OSO-5		. astronomical observatories astronomical satellites OSO	Used fo loads. UF	r Office of Space & Terrestr Applic Pay  Office of Space & Terrestr Applic
OSO-6 UF	OSO-G		OSO-C solar observatories	GS	Payloads payloads
GS	artificial satellites		OSO	do	. Space Shuttle payloads
	. geophysical satellites		OSO-C		OSTA-3 payload
	OSO <b>OSO-6</b>		. geophysical observatories OSO	RT	remote sensing space transportation system
	. scientific satellites		OSO-C		spaceborne experiments
	astronomical satellites OSO	RT <i>OSO-D</i>	Delta launch vehicle	t l-l	spacecraft equipment
	<b>OSO-6</b> observatories	USE	OSO-4	osteobl (add	ed June 2001)
	. astronomical observatories			DEF	Bone-forming cells that secrete an ex
	oso	OSO-E USE	OSO-3		ar matrix. Hydroxyapatite crystals are
	<b>OSO-6</b>				posited into the matrix to form bone. cells (biology)
	solar observatories	<i>OSO-F</i> USE	OSO-5		osteoblasts
	OSO	USE	050-5	RT	bone demineralization
	<b>OSO-6</b> . geophysical observatories	OSO-G			bone mineral content bones
	OŚO	USE	OSO-6		cytogenesis
	OSO-6	OSO-H			fibroblasts
OSO-7		USE	OSO-7		osteocalcin osteogenesis
UF	OSO-H	OSO-J			osteoporosis
GS	artificial satellites		OSO-8	osteoca	aloin
	. geophysical satellites OSO	Osprey	aircraft		ed August 2004)
	OSO-7		V-22 aircraft	DEF	Vitamin K-dependent calcium-binding
	. scientific satellites astronomical satellites	•			synthesized by osteoblasts and found
	OSO		missile missiles		y in bone. biopolymers
	OSO-7	0.0	. Osprey missile		proteins
	observatories . astronomical observatories	RT	J-85 engine		osteocalcin
	. astronomical satellites	OSS-1	payload		organic compounds . proteins
	OSO	DEF	Experiment package flown aboard the		osteocalcin
	<b>OSO-7</b> solar observatories		Shuttle STS-3 in 1982 which was spon-	RT	bone demineralization bone mineral content
	OSO		y the NASA Office of Space Sciences lich the acronym is derived.		bones
	OSO-7	GS	payloads		calcification
	. geophysical observatories OSO		. Space Shuttle payloads OSS-1 payload		calcium osteoblasts
	OSO-7	RT	exploration		phylloquinone
RT	dual spin spacecraft		Get Away Specials (STS)		
OSO-8			investigation NASA programs	osteoge (add	enesis ed August 2004)
DEF	One of a series of NASA orbiting solar		space transportation system		The process of bone formation. Histo
	tories developed mainly for solar re-		spaceborne experiments		of bone including ossification.
search. UF	Used for OSO-J.  OSO-J	OSTA-1	payload	UF GS	bone formation cytogenesis
GS	artificial satellites	SN	(OFFICE OF SPACE & TERRESTRIAL	40	. osteogenesis
	. geophysical satellites	DEF	APPLICATIONS PAYLOADS) Spaceborne experiments flown aboard	RT	bone demineralization
	OSO <b>OSO-8</b>		ace Shuttle STS-2 in 1981 which was		bone marrow bone mineral content
	. scientific satellites		red by the NASA Office of Space &		bones
	astronomical satellites		ial Applications from which the acronymed. Used for Office of Space & Terrestr		osteoblasts
	OSO <b>OSO-8</b>	Applic F	Payloads.		tissues (biology)
	observatories	UF	Office of Space & Terrestr Applic	osteop	
	. astronomical observatories astronomical satellites	GS	Payloads payloads	DEF tom is t	A medical condition whose chief symp he loss of internal bone mass.
	OSO		. Space Shuttle payloads	GS	diseases
	OSO-8	RT	OSTA-1 payload space transportation system		osteoporosis
	solar observatories OSO	n i	space transportation system spaceborne experiments	RT	bone demineralization bone mineral content
	OSO-8				bones
	. geophysical observatories	SN	! payload (OFFICE OF SPACE & TERRESTRIAL		calcium metabolism
	OSO <b>OSO-8</b>	UF	APPLICATIONS PAYLOADS) Office of Space & Terrestr Applic		metabolism osteoblasts
OSO-A		GS	Payloads payloads		d coarsening
USE	OSO-1		OSTA-2 payload	USE	Ostwald ripening
OSO-B		RT	space transportation system	Ostwal	d ripening
USE	OSO-2		Spacelab	(add	ed March 1994)
oso-c			payload	UF RT	Ostwald coarsening coarseness
UF	S-57 satellite	SN	(OFFICE OF SPACE & TERRESTRIAL APPLICATIONS PAYLOADS)		crystallization
GS	artificial satellites	DEF Space 9	Spaceborne systems flown aboard the Shuttle STS-17, sponsored by the NASA		grain size microstructure
	. geophysical satellites OSO		of Space & Terrestrial Applications from		phase transformations
			* *		

	precipitation (chemistry) solid solutions		TOPS (spacecraft) Venus probes		ther values in the distribution that their ce cannot be attributed to the random
	solidification		venus probes		ation of change causes.
		outer r	adiation belt	RT	mathematical models
OT-2		GS	particles		probability theory
USE	ESSA 2 satellite		. charged particles		statistical analysis
OTO			magnetically trapped particles		statistical distributions
OT-3	ECCA 1 cotallite		radiation belts		statistical tests
USE	ESSA 1 satellite		outer radiation belt		
OTF			. corpuscular radiation	output	
	optical transfer function		radiation belts	DEF	The yield or product of an activity fur-
002	option transfer function		outer radiation belt	nished	by man, machine, or system. Used for
otolary	ngology		. trapped particles magnetically trapped particles	dummy	
GS	medical science		radiation belts	UF	,
	. otolaryngology		outer radiation belt	GS	
RT	ear	RT	artificial radiation belts		. cardiac output
otolith	organe		inner radiation belt		heart minute volume
	organs Structures of the inner ear (utricle and		proton belts		stroke volume . laser outputs
	) which respond to linear acceleration		∞ radiation		. maser outputs
and tilti		_		RT «	∞ capacity
GS	anatomy		pace treaty		catchers
	. sense organs	GS	•		computer systems performance
	ear		foreign policy     international relations		delivery
	labyrinth		international cooperation		efflux
	otolith organs		outer space treaty		input
	gravireceptors	RT			outlets
	otolith organs		international law	•	∞ performance
	receptors (physiology)		research and development		power conditioning
	. gravireceptors		resource allocation		printouts
RT	otolith organs oculogravic illusions		space law		∞ production products
n i	Orbiting Frog Otolith				readout
	semicircular canals	outgas	•		supplying
	vertical perception	DEF	The evolution of gas from a material in		tracking problem
		a vacui RT	um. degassing		transfer functions
otology	1	ΠI	desorption		transmission
GS	medical science		evolution (liberation)		yield
	. otology		gas evolution		
RI	ear		purging	OV-1 a	ircraft
OTS (E	CA)		residual gas	UF	AO-1 aircraft
UF			transpiration		Grumman OV-1C aircraft
GS	artificial satellites		vacuum		Mohawk aircraft
0.0	. ESA satellites		vacuum pumps	GS	Grumman aircraft
	OTS (ESA)				OV-1 aircraft
	ESA spacecraft	outlet 1			jet aircraft
	ESA satellites	GS	fluid flow		. turboprop aircraft OV-1 aircraft
	OTS (ESA)	RT	. outlet flow cascade flow		
RT	European Communications Satellite	ΠI	channel flow		monoplanes . OV-1 aircraft
	European space programs	,	∞ flow		observation aircraft
044-	rala		flow characteristics		. OV-1 aircraft
Otto cy GS	cycles		nozzle flow	RT «	∞ aircraft
do	. thermodynamic cycles				
	Otto cycle	outlets		OV-1 e	atellites
RT	Rankine cycle	GS	outlets	GS	
• • • •	Tidaminio Syste		. vents	ao	. scientific satellites
OTV		RT	apertures		OV-1 satellites
USE	orbit transfer vehicles		cavities	RT	
			∞ discharge		spin stabilization
outcrop			doors ducts		
RT	folds (geology)			OV-2 s	atellites
	formations		egress exhaust nozzles		artificial satellites
	geology		exhaust systems		. scientific satellites
Outer F	Banks (NC)		gates (openings)		OV-2 satellites
	landforms		∞ nozzles	RT	gravity gradient satellites
0.0	. barriers (landforms)		openings		spin stabilization
	Outer Banks (NC)		output		
RT	Atlantic Ocean		pipe nozzles	OV-3 s	atellites
	islands		plugs		artificial satellites
	North Carolina		ports (openings)		. scientific satellites
		•	∞ terminals		OV-3 satellites
	lanet missions	01:4104-	(goology)	RT	gravity gradient satellites
USE	Grand Tours		(geology)		spin stabilization
outer =	lanet snacecraft	USE	estuaries		
	lanet spacecraft outer planets explorers	Outlier	s (landforms)	OV-4 s	atellites
USE	outer planets explorers		Areas or groups of rocks surrounded	GS	artificial satellites
outer n	lanets explorers		s of older age. Used for klippen.		. scientific satellites
UF		UF			OV-4 satellites
	planetary explorer	GS	• •	RT	3 . , 3
RT	Delta launch vehicle		outliers (landforms)		spin stabilization
	Explorer satellites	RT	formations		
	flyby missions		rocks		atellites
	Grand Tours		soil erosion	GS	
	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 NA-300 aircraft UF 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 siliconizina . . . 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 GS acids duction of an associated element (electron menstruation . 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 (added February 1994) .. oxamic acids 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 cathodic coatings overcompression . . . azoles ∞ films consolidation RT . . . . oxazole metal oxides foundations metal surfaces oxetane polymers surface layers Overhauser effect (added August 1994) 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 of the nuclei as great as if the nuclei had the much larger electron magnetic moment. . . alkoxides photochemical reactions . . anhydrides ∞ polymers propellants ... peroxides 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 blast loads . oxidation . . 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 . search radar .... beryllium oxides

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		gases
alexandrite		FLOX		. oxygen
sapphire		TAGN		oxygen isotopes
bismuth oxides	RT ∞	agents		oxygen 18
cerium oxides		air pollution		
cesium oxides		fluorine		afterglow
chromium oxides		fuels	GS	afterglows
cobalt oxides		nitramine propellants		. oxygen afterglow
copper oxides		oxidation	ovygon	analyzers
gallium oxides	ovimetr		UF	oxygen detectors
hafnium oxides	oximetr	•	GS	measuring instruments
iron oxides	RT	biochemical oxygen demand blood	ao	. oxygen analyzers
hematite ilmenite		hyperoxia	RT	gas analysis
			111	gas analysis
magnetite lanthanum oxides		hypoxia oxygen consumption	oxygen	atoms
lead oxides		oxygen consumption		atoms
lithium oxides	oxosilan	es		. oxygen atoms
manganese oxides	USE	polysilanes	RT	oxygen
Hopcalite (trademark)		polyonanos		, ,
mercury oxides	oxyacet	ylene	oxygen	breathing
mixed oxides		organic compounds	RT ∝	breathing
BSCCO superconductors		. hydrocarbons		
YBCO superconductors		aliphatic hydrocarbons		compounds
molybdenum oxides		alkynes	SN	(USE OF A MORE SPECIFIC TERM IS
nickel oxides		oxyacetylene		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)
niobium oxides	RT	acetylene	RT	acids
platinum oxides		detonable gas mixtures		aluminates
plutonium oxides	∞	oxygen compounds		arsenates
potassium oxides				borates
scandium oxides	oxyalkyl			bromates
silver oxides	USE	alkylation		carbohydrates
sodium peroxides				carbon suboxides
strontium oxides	oxyfluo			carbonates
tantalum oxides	GS	halogen compounds	~	chemical compounds
thorium oxides		. fluorine compounds		chlorates
tin oxides		fluorides		chromates
titanium oxides		oxyfluorides		germanium oxides
anatase		. halides fluorides		niobates
ilmenite		oxyfluorides		oxalates
rutile	RT ~	oxygen compounds		oxides
tungsten oxides	111 ~	oxygen compounds		oxyacetylene
scheelite	oxygen			oxyfluorides
uranium oxides		chemical elements		oxygen fluorides
vanadium oxides		. oxygen		ozonates
yttrium oxides zinc oxides		liquid oxygen		ozone fluoride ozonides
ziric oxides		oxygen isotopes		stannates
yttria-stabilized zirconia		oxygen 17		Starillates
nitrogen oxides		oxygen 18	oxygen	consumption
nitric oxide		gases		consumption
nitrogen dioxide		. oxygen	0.0	. oxygen consumption
nitrogen tetroxide		liquid oxygen	RT	biochemical oxygen demand
nitrous oxides		oxygen isotopes		hyperoxia
phosphorus oxides		oxygen 17		hypoxia
pyroxenes		oxygen 18		metabolism
enstatite	RT	Chlorella		oximetry
selenium oxides		high pressure oxygen		
silicon oxides		oxygen atoms		deficiency
muscovite		oxygen ions oxygen plasma	USE	hypoxia
nephelite		oxygen piasma ozone		-1-44
silicon dioxide		reaction bonding		detectors
quartz		Schumann-Runge bands	USE	oxygen analyzers
coesite		sialon	ovvaen	fluorides
stishovite				fluorides halogen compounds
spodumene	oxygen	17	ao	. fluorine compounds
sulfur oxides sulfur dioxides	DEF	An isotope of oxygen.		fluorides
	GS	chemical elements		oxygen fluorides
RT anodic coatings		. nuclides		. halides
cathodic coatings ethylene oxide		isotopes		fluorides
euxenite		oxygen isotopes		oxygen fluorides
insulation		oxygen 17	RT ∝	oxygen compounds
metal coatings		. oxygen		-
niobates		oxygen isotopes	oxygen	ions
nonflammable materials		oxygen 17		ions
∞ oxygen compounds		gases		oxygen ions
solid oxide fuel cells		. oxygen	RT	free radicals
water		oxygen isotopes		negative ions
		oxygen 17		oxygen
and discours		10		instance
oxidizers	oxygen			isotopes
DEF Specifically, substances (not neces-	GS	chemical elements	GS	chemical elements
sarily containing oxygen) that support the com- bustion of a fuel or propellant.		. nuclides isotopes		. nuclides isotopes
GS oxidizers		oxygen isotopes		oxygen isotopes
GO VAIGILOIS		oxygon isotopes		oxygen isotopes

### oxygen masks

. . . . oxygen 17 pressurized cabins SAGE satellite Solar Mesosphere Explorer . . . . oxygen 18 survival equipment volatile organic compounds . oxygen .. oxygen isotopes oxygen systems USE oxygen supply equipment ozone depletion ... oxygen 17 (added December 1991) . . . oxygen 18 oxygen tension ozone holes gases GS pressure . oxygen GS depletion . partial pressure .. oxygen isotopes ozone depletion oxygen tension air pollution ... oxygen 17 . . . hypoxemia Antarctic regions ... oxygen 18 Arctic regions oxygen toxicity oxygen masks atmospheric composition ÚŠE hyperoxia breathing apparatus chlorofluorocarbons . oxygen masks chlorofluoromethane oxygenation masks chemical reactions . oxygen masks ozonosphere oxygenation oxygen supply equipment Total Ozone Mapping Spectrometer aeration oxygen masks dissolved gases ozone fluoride high altitude breathing GS halogen compounds life support systems fluorine compounds portable life support systems oxygen-hydrocarbon rocket engines . . fluorides (added May 1989) oxygen metabolism ... ozone fluoride liquid oxygen hydrocarbon rocket metabolism . halides engines oxygen metabolism . . fluorides LOX-hydrocarbon rocket engines hydrogen metabolism . . ozone fluoride engines respiration  $RT = oxygen \ compounds$ . rocket engines ozone . . liquid propellant rocket engines oxygen plasma ... oxygen-hydrocarbon rocket ozone holes GS particles engines USE ozone depletion . charged particles booster rocket engines . . energetic particles ozone layer liquid oxygen . . . plasmas (physics) reusable rocket engines USE ozonosphere .... oxygen plasma spacecraft propulsion . corpuscular radiation ozonesondes . . energetic particles (added July 2005) . . . plasmas (physics) DEF Instruments which measure atmo-GS halogen compounds ... oxygen plasma spheric ozone profiles. . halides argon plasma GS measuring instruments . . oxyhalides helium plasma . meteorological instruments hydrogen plasma . . ozonesondes oxyhemoglobin oxygen . sondes GS biopolymers . proteins . ozonesondes oxygen production RT air sampling .. hemoglobin closed ecological systems balloon sounding . . oxyhemoglobin gas exchange organic compounds balloon-borne instruments in situ resource utilization ozonometry . proteins oxygen recombination . . hemoglobin ozonides GS chemical reactions . atomic recombination . oxyhemoglobin  $RT \infty$  oxygen compounds organometallic compounds . hemoglobin ozone . . oxygen recombination . oxyhemoglobin recombination reactions ozonometry RT erythrocytes . atomic recombination GS chemical tests . oxygen recombination . chemical analysis oxynitrides RT ionization . . gas analysis Base for a broad field of nitrogen ce-. . ozonometry ramics utilizing silicon, aluminum, and other oxygen regulators ozone elements to produce high temperature refractory GS control equipment ozone depletion . regulators materials. ozonesondes GS nitrogen compounds . oxygen regulators Total Ozone Mapping Spectrometer flow regulators . nitrides . oxynitrides pressure regulators ozonosphere

DEF The general stratum of the upper at-RT ∞ chemical compounds oxygen spectra ∞ Group 5A compounds GS spectra . oxygen spectra ozonates RT RT ∞ oxygen compounds airglow Herzberg bands ozone molecular spectra solar spectra for ozone layer. A very active form of oxygen that may HE

oxygen supply equipment oxygen systems

oxygen supply equipment . oxygen masks AEPS GS

air conditioning equipment breathing apparatus cabin atmospheres compressed air controlled atmospheres emergency life sustaining systems life support systems

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

mosphere 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

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 04 Company simplest
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 Messerschmitt ME P-308 aircraft	. Piper aircraft
ultrahigh frequencies	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	To the Proceedings	in Space
compression waves	P-531 helicopter	Pacific islands
crustal fractures dilatational waves	UF Scout helicopter Westland P-531 helicopter	GS landforms
S waves	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 . P-531 helicopter	Kurile Islands New Guinea (island)
. rocket engines booster rocket engines	RT antisubmarine warfare aircraft	New Zealand
P-1 engine	passenger aircraft	Philippines
solid propellant rocket engines	parentiger american	Samoa
P-1 engine	P-1127 aircraft	
_	UF Hawker P-1127 aircraft	Pacific Northwest (US)
P-3 aircraft	Kestrel aircraft	GS regions
UF Orion aircraft P3V aircraft	VZ-12 aircraft	. <b>Pacific Northwest (US)</b> RT Canada
GS antisubmarine warfare aircraft	XV-6A aircraft	United States
. P-3 aircraft	GS attack aircraft	ormod otatoo
jet aircraft	. fighter aircraft <b>P-1127 aircraft</b>	Pacific Ocean
. turboprop aircraft	Hawker Siddeley aircraft	GS oceans
. P-3 aircraft	. P-1127 aircraft	. Pacific Ocean
Lockheed aircraft	jet aircraft	RT Bering Sea
. P-3 aircraft	. turbofan aircraft	coastal ranges (CA) el Nino
monoplanes . <b>P-3 aircraft</b>	P-1127 aircraft	Gulf of Alaska
RT ∞ aircraft	monoplanes	Gulf of California (Mexico)
turboprop engines	. P-1127 aircraft	Indonesia
	single engine aircraft . <b>P-1127 aircraft</b>	mid-ocean ridges
P3V aircraft	V/STOL aircraft	Monterey Bay (CA)
USE P-3 aircraft	. P-1127 aircraft	San Francisco Bay (CA)
D E1 aireast	RT ∞ aircraft	Sea of Okhotsk
P-51 aircraft UF Mustang aircraft	Bristol-Siddeley BS 53 engine	Southern California
GS attack aircraft	Harrier aircraft	packages
. 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 . fighter aircraft	GS <b>packages</b> . instrument packages
. <b>P-51 aircraft</b> single engine aircraft	P-1154 aircraft	Apollo Lunar Surface Experiments
. P-51 aircraft	Hawker Siddeley aircraft	Package
RT ∞ aircraft	. P-1154 aircraft	EASEP
	jet aircraft	EREP
P78-2 satellite	. turbofan aircraft	RT bags
USE SCATHA satellite	P-1154 aircraft monoplanes	boxes (containers)
P-84 aircraft	. P-1154 aircraft	bundles cartridges
USE jet provost aircraft	single engine aircraft	cases (containers)
,p	. P-1154 aircraft	∞ containers
P-160 aircraft	supersonic aircraft	∞ instruments
UF ME P-160 aircraft	. P-1154 aircraft	packaging
Messerschmitt ME P-160 aircraft	V/STOL aircraft	
GS commercial aircraft	. P-1154 aircraft	packaging
. <b>P-160 aircraft</b> passenger aircraft	RT ∞ aircraft turbofan engines	DEF (1) The technique of preparing goods for distribution; (2) The design criteria, pro-
. P-160 aircraft	tarbotan engines	cesses, and procedures used to protect materi-
transport aircraft	P.A.C.M. telemetry	als from deterioration and damage from the time
. cargo aircraft	SN (PULSE AMPLITUDE CODE	manufacturing is completed until use or dis-
P-160 aircraft	MODULATION)	posal; (3) The processses and procedures used
RT ∞ aircraft	GS telecommunication	to protect an item in a unit package.
D 166 circreft	. telemetry	GS packaging
P-166 aircraft UF Piaggio P-166 aircraft	P.A.C.M. telemetry transmission	. electronic packaging 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	communication equipment	hoppers
. P-166 aircraft	differential pulse code modulation	inhibitors
transport aircraft	modulation	marking
. cargo aircraft	pulse amplitude modulation	materials handling

## packet switching

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 particle production sealing pair production packet switching shafts (machine elements) electromagnetic absorption DEF Switching circuit system for multiple electron emission access time division data transmission. electron photon cascades 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 packet transmission Pakistan . real variables DFF 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 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 removal GS wide area networks paleoclimatology paint removal 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 packing density . pressure sensitive paints magnetic fields

temperature sensitive paints

fillers

finishes

metal coatings

. paleomagnetism

magnetic properties

paleomagnetism

RT archaeology

Bravais crystals

crystal structure crystals

∞ packing

	cones (volcanoes)	palmitic acid	vortex lattice method
	continental drift	RT fats	nanala
	geology geomagnetism	Palo Verde Valley (CA)	panels SN (EXCLUDES GROUPS OF PEOPLE)
	geophysics	GS valleys	GS panels
	magnetostratigraphy	. Palo Verde Valley (CA)	. curved panels
	Mars volcanoes remanence	RT California deserts	. rectangular panels . wing panels
	rocks	docito	RT baffles
	volcanoes	PAM (modulation)	ceilings (architecture)
	volcanology	USE pulse amplitude modulation	∞ construction materials dividers
paleont	ology	pampas	flat plates
RT	archaebacteria	DEF A vast treeless grassy plain of temp	
	Cambrian Period	ate regions, especially as used in Argentina a adjacent parts of Uruguay. It is comparable	
	Cenozoic Era Cretaceous Period	the prairies of North America, the steppes of t	
	Cretaceous-Tertiary boundary	Eurasia, and the veld of South Africa.	walls
	formations	GS land . plains	panic
	fossils geochemistry	. pampas	RT emotional factors
	geochronology	landforms	emotions
	geological surveys	. plains	fear human behavior
	geology histories	pampas	numan benavior
	Mesozoic Era	PAN (polyacrylonitrile)	panoramic cameras
	paleobiology	USE polyacrylonitrile	GS optical equipment
	paleoclimatology Paleozoic Era	Panama	. cameras <b>panoramic cameras</b>
	Precambrian period	GS nations	photographic equipment
	protobiology	Panama	. cameras
	stratigraphy	RT canals Central America	<b>panoramic cameras</b> RT camera shutters
	Tertiary Period	Gentral America	focusing
Paleozo	oic Era	Panama Canal Zone	lenses
١.	ed June 1989)	GS regions . <b>Panama Canal Zone</b>	photography
	An era of geologic time, from the end Precambrian Period to the beginning of	RT Caribbean Sea	wide angle lenses
	sozoic Era, or about 570 to about 225	Central America	panoramic scanning
	rears ago.	United States	GS scanning
GS	Paleozoic Era . Cambrian Period	pancreas	. <b>panoramic scanning</b> RT conical scanning
RT	geochronology	GS anatomy	frequency scanning
	Mesozoic Era	. digestive system	multispectral band scanners
	paleontology	<b>pancreas</b> . glands (anatomy)	radar scanning scanners
	Precambrian period	endocrine glands	searching
palladiu	ım	pancreas	surveillance
GS	chemical elements	RT diabetes mellitus gastrointestinal system	panspermia
	. palladium metals	trypsin	DEF The theory that holds that reproductive
	. transition metals		bodies of living organisms exist throughout the
БТ	palladium	Pandora	universe and develop wherever the environment is favorable.
RT	palladium isotopes	(added July 1995) DEF A natural satellite of Saturn, orbiting	
palladiu	ım alloys	a mean distance of 141,700 kilometers.	aerospace environments
GS	alloys	GS celestial bodies	bacteria
	. palladium alloys	. natural satellites Saturn satellites	biological evolution exobiology
	ım compounds	Pandora	extraterrestrial life
RT •	chemical compounds	RT Saturn (planet)	fungi
	metals transition metals	panel flutter	PANT program
		GS vibration	DEF The passive nosetip technology
•	ım isotopes	. structural vibration	(PANT) program is an investigation of flow phe-
GS	chemical elements . nuclides	flutter panel flutter	nomena over reentry vehicle nosetips by the Air Force. Used for ablative nosetips and passive
	. isotopes	self induced vibration	nosetip technology.
	palladium isotopes	panel flutter	UF ablated nosetips
RT	palladium	RT aerodynamic noise aeroelasticity	passive nosetip technology GS programs
Palmar	sweat index	bending vibration	. PANT program
RT	perspiration		
	stress (physiology) stress (psychology)	panel method (fluid dynamics)  DEF Technique for analyzing and predicti	Pantar chondrites ing GS celestial bodies
	stress (psychology)	the properties and characteristics of fluid flo	
	en-Miner rule	sometimes called the finite element method.	stony meteorites
UF GS	Miner rule	GS procedures	chondrites
us		. <b>panel method (fluid dynamics)</b> RT Bernoulli theorem	Pantar chondrites
	rules Palmgren-Miner rule		
RT	. Palmgren-Miner rule fatigue life	boundary layers	Panther aircraft
	. Palmgren-Miner rule fatigue life	boundary layers computational fluid dynamics	Panther aircraft USE <b>F-9 aircraft</b>
palmitio	. Palmgren-Miner rule fatigue life acid	boundary layers computational fluid dynamics finite element method	USE F-9 aircraft
	. Palmgren-Miner rule fatigue life	boundary layers computational fluid dynamics	
palmitio	. Palmgren-Miner rule fatigue life  acid acids . carboxylic acids . fatty acids	boundary layers computational fluid dynamics finite element method ∞ flow flow theory fluid dynamics	USE <b>F-9 aircraft</b> papain  GS biopolymers . proteins
palmitio	. Palmgren-Miner rule fatigue life  acids . carboxylic acids . fatty acids palmitic acid	boundary layers computational fluid dynamics finite element method ∞ flow flow theory fluid dynamics flux vector splitting	USE F-9 aircraft  papain GS biopolymers . proteins . enzymes
palmitio	. Palmgren-Miner rule fatigue life  acid acids . carboxylic acids . fatty acids	boundary layers computational fluid dynamics finite element method ∞ flow flow theory fluid dynamics	USE <b>F-9 aircraft</b> papain  GS biopolymers . 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

documents

papers

RT boards (paper) conferences

fibers

laminates

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

GS 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

weightlessness simulation

#### 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.

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

paraboloids

USE parabolic bodies

solar reflectors

#### 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

#### parachuting injury

GS

. parachuting injury

A system for recovering men and objects from great distances above the Earth's

RT escape capsules escape systems parachutes

#### paradoxes

paradoxes

∞ logic

## paraffins

GS organic compounds

. hydrocarbons

. . . alkanes

RT hydrocarbon fuels

kerosene shale oil

## parafoils

GS parachutes

aerodynamic brakes airdrops bailout

# paragliders

GS gliders

> inflatable gliders folding structures

hypersonic gliders parafoils

∞ subsonic aircraft

GS nations

RT South America

tion or position of an object when viewed from

GS parallax

solar parallax stellar parallax

astrometry companion stars

GS data processing equipment

. computers

. . digital computers

parallel computers

. . . . Connection Machine

. . . . SIMD (computers)

USE parachute descent

injuries

#### paracone

surface and landing them safely onto the Earth.

GS philosophy

knowledge

relativity

. . aliphatic hydrocarbons

. . . paraffins . . ceresin

(added July 1994)

parafoils

free fall

paragliders

paragliders

parawings

## Paraguay

Paraguay

parallax

The difference in the apparent direcdifferent points expressed as an angle.

∞ optics

parallel computers

. . . . massively parallel processors

. . . . MIMD (computers)

parathyroid gland 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 . . semiconductor diodes . . pipe flow paramagnetism . . 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 DEF The concurrent or simultaneous exmagnetic storage ecution of more than one program, or the hanidentifying oscillators dling of input for more than one operation at the parameter identification phase lock demodulators same time. parameterization thin films GS data processing . parameter identification complex systems 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 RT 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 parasites GS steepest descent method vector processing (computers) . trypanosome system identification animals systems analysis parallel programming blight systems engineering GS computer programming infestation Taguchi methods parallel programming time domain analysis RT multiprocessing (computers) parasitic antennas pipelining (computers) USE parasitic elements (antennas) parameterization GS parameterization 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) injuries parametric amplifiers . directors (antenna elements) antenna design paralysis DEF Inverting parametric devices used to antenna radiation patterns disabilities

amplify a signal without frequency translation from input to output. Used for parametric oscillators and reactance amplifiers.

parametric oscillators reactance amplifiers GS amplifiers

#### parametric amplifiers frequency converters

power amplifiers

LC circuits

magnetostatic amplifiers microwave amplifiers negative resistance devices

parathyroid gland GS anatomy

dipole antennas

radio receivers

Yagi antennas

reflectors

parasitic reflectors

directional antennas

log periodic antennas

USE parasitic elements (antennas)

695

# . . paramagnetic resonance . . electron paramagnetic resonance absorption spectra ferromagnetic resonance

tremors

paramagnetic amplifiers

paramagnetic resonance

resonance

. magnetic resonance

USE masers

GS

. glands (anatomy) GS mathematical logic ... storage rings (particle . . endocrine glands . algorithms accelerators) . . parathyroid gland . . parsing algorithms . cyclotrons . . geocyclotrons RT calcium metabolism RT compilers computer techniques . . microtrons parawings . . Oak Ridge isochronous cyclotron grammars GS airfoils natural language processing . . omegatrons semantics . . synchrocyclotrons . . flexible wings subroutines . electron accelerators . parawings syntax . betatrons air drop operations ion accelerators folding structures linear accelerators partial differential equations hang gliders . Nimrod accelerator GS analysis (mathematics) parachutes . superconducting super collider . real variables paragliders synchrophasotrons . . differential equations Van de Graaff accelerators ... partial differential equations parenteral functions RT ∞ accelerators biharmonic equations RT ∞ functions beam splitters Burger equation electron guns Cauchy-Riemann equations elementary particles parents . . elliptic differential equations adults RT ion sources Monge-Ampere equation children **Euler-Cauchy equations** kaon production human beings . . . . Ffowcs Williams-Hawkings neutron sources equation nuclear particles parity Fokker-Planck equation racetracks (particle accelerators) DEF A symmetry property of a wave func-. . . . Gauss equation railgun accelerators tion. SEPAC (payload) Helmholtz vorticity equation RT BCH codes . . . . Liouville equations coding particle beams ... parabolic differential equations conservation GS beams (radiation) . . . . Poisson equation correction particle beams . . vlasov equations CP violation . . atomic beams alternating direction implicit methods equivalence . . electron beams Boltzmann-Vlasov equation error detection codes ... relativistic electron beams ∞ equations information theory .. ion beams Euler-Bernoulli beams nuclear physics . . neutral beams functional integration particle spin . . . molecular beams kinetic equations quantum numbers ... neutron beams Laplace equation quantum theory meshfree methods . . neutrino beams strangeness . . pion beams method of characteristics vector currents . proton beams Neumann problem reaction-diffusion equations beam splitters parking electron acceleration Trefftz method (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS SN electron bombardment wave equations flux (rate) LISTED BELOW) parking orbits ion stripping partial pressure magnetic sails ramps (structures) DEF The pressure exerted by a designated phonon beams component or components of a gaseous mixparking orbits ture. particle charging GS orbits pressure . spacecraft orbits RT charged particles partial pressure . . satellite orbits . . oxygen tension particle collisions . . parking orbits . hypoxemia GS collisions Earth orbits RT Dalton law particle collisions Earth-Moon trajectories gas pressure atomic collisions flight optimization Henry law internal pressure atomic excitations interplanetary trajectories BGK model low Earth orbits Raoult law dense plasmas lunar orbits residual gas Faddeev equations lunar trajectories ∞ tension ionic collisions orbital mechanics vapor pressure kinetics ∞ parking mean free path planetary orbits particle acceleration molecular collisions thrust programming GS rates (per time) molecular excitation transfer orbits . acceleration (physics) nucleon-nucleon scattering particle acceleration Parkinson disease scattering RT ∞ acceleration diseases GS electromagnetic acceleration particle counters Parkinson disease magnetic fields USE radiation counters RT tremors plasma acceleration racetracks (particle accelerators) particle decay parks wave-particle interactions (added May 1994) GS land (LIMITED TO THE DECAY OF ELEMENTARY PARTICLES; EXCLUDES NUCLEAR DECAY) SN . parks particle accelerator targets . . national parks ... Yellowstone National Park GS targets decay (ID-MT-WY) particle accelerator targets . particle decay  $RT \, \infty \, accelerators \,$ . neutron decay RT recreation CP violation target thickness regional planning elementary particle interactions urban development urban planning particle accelerators fermions DEF Specifically, devices for imparting large hadrons kinetic energy to charged particles, such as parotid gland radioactive decay electrons, protons, deuterons, and helium ions. USE salivary glands particle accelerators particle density (concentration) parsing algorithms . cyclic accelerators GS density (number/volume) . . betatrons . particle density (concentration) DEF Computer routines for the syntactic

. . synchrocyclotrons . . synchrotrons

... bevatron

. . electron density (concentration)

. . . carrier density (solid state)

... electron density profiles

processing

and/or semantic analysis and restructuring of natural language instructions or data for internal

... ionospheric electron density UF particle image displacement . . electron mass ... magnetospheric electron density velocimetry gravitinos PIDV (velocimetry) magnetic rigidity . . electron distribution . electron density profiles PIV (velocimetry) nuclides . . ion density (concentration) GS mechanical measurement . . . ionospheric ion density . flow measurement particle motion ... magnetospheric ion density . . particle image velocimetry RT diffraction radiation . . . . magnetospheric proton density . velocity measurement electrophoresis ... proton density (concentration) . particle image velocimetry falling ... magnetospheric proton density lattice vibrations flow distribution . plasma density magnetic rigidity flow velocity atmospheric density flow visualization mean free path ESRO 4 satellite ∞ motion imaging techniques neutral sheets ion stripping laser doppler velocimeters ionospheric composition photographic measurement photophoresis space density photographic recording recoilings spatial distribution two phase flow relativistic velocity settling particle in cell technique thermophoresis particle detectors USE radiation counters GS analysis (mathematics) numerical analysis transverse momentum . . approximation particle precipitation particle diffusion DEF The precipitation of particles other than GS diffusion . particle in cell technique . particle diffusion electrons and protons. RT ∞ cells GS particle precipitation . . electron diffusion crystal lattices electron precipitation . ionic diffusion flow equations proton precipitation atomic beams meshfree methods atomic structure Boltzmann transport equation methodology charged particles diffusion coefficient vortex in cell technique  $\infty$  precipitation diffusion length drop size ∞ particle intensity (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) particle energy particle production flux (rate) GS particle production gaseous self-diffusion kaon production molecular diffusion pair production muon spin rotation particle flux density . photoproduction self diffusion (solid state) comminution thermophoresis particle interactions corpuscular radiation GS particle interactions high energy interactions particle emission . elementary particle interactions nuclear radiation GS 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 . . . secondary emission . . meson-nucleon interactions particle size distribution . . ion emission . . nuclear capture size distribution . . neutron emission GS ... electron capture . particle size distribution . . thermionic emission .. nucleon-nucleon interactions RT exhaust emission dimensions . . weak energy interactions drop size expulsion ... weak interactions (field theory) fineness self sustained emission . . proton-antiproton interactions fines stimulated emission . ion atom interactions fractions . molecular interactions grain size particle energy . . molecular collisions particles particle energy GS . nuclear interactions particulates . electron energy . . nuclear capture precipitation particle measurement . . electron states . . . electron capture size determination . proton energy . . spin-orbit interactions size separation RT ∞ energy . . . electron capture solids flow internal energy . . weak interactions (field theory) thermophoresis kinetic energy . plasma-particle interactions monochromatization wave-particle interactions particle spin ∞ particle intensity Bragg curve GS spin charm (particle physics) particle spin particle flux chemical reactions . . electron spin USE flux (rate) collision parameters . . isotopic spin electron phonon interactions . . nuclear spin particle flux density electron scattering angular momentum (LIMITED TO PARTICLE EMISSION OR DETECTION RATE PER UNIT AREA) Feynman diagrams flavor (particle physics) Ising model rates (per time) muon spin rotation ∞ interactions . flux density nuclear magnetic resonance neutral currents . . radiant flux density nuclear physics nuclear reactions ... particle flux density . . . electron flux density photonuclear reactions quenching (atomic physics) . . . . neutron flux density photophoresis spin resonance quantum chromodynamics . . . proton flux density RT Helios satellites particle telescopes particle laden jets ∞ particle intensity electron telescopes DEF Fluid, mainly issuing from a nozzle, GEP telescopes radiancy radiation counters that are turbulent and contain dispersed par-Goddard experiment package radiation pressure telescope fuel flow solar constant proton telescopes solar flux density jet flow measuring instruments particles . counters particle image displacement velocimetry turbulent flow . . radiation counters . . . particle telescopes USE particle image velocimetry . radiation measuring instruments particle mass . . radiation counters particle image velocimetry GS mass

particle mass

(added June 1993)

. . . particle telescopes

### particle theory

telescopes . . . . argon plasma . . . . beta particles particle telescopes . . . . beta particles .... boundary layer plasmas RT anticoincidence detectors . . . . boundary layer plasmas . . . . cold plasmas 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-positron plasmas electron plasma grand unified theory electron-positron plasmas elliptical plasmas Higgs bosons elliptical plasmas helium plasma ∞ interactions helium plasma high temperature plasmas many body problem hydrogen plasma high temperature plasmas plasma-particle interactions . deuterium plasma hydrogen plasma quark models . deuterium plasma laser plasmas standard model (particle physics) . laser plasmas . metallic plasmas string theory . . metallic plasmas . . cesium plasma supergravity . . . . uranium plasmas . . . . microplasmas cesium plasma supersymmetry . uranium plasmas ∞ theories nitrogen plasma nonequilibrium plasmas nonuniform plasmas microplasmas unified field theory nitrogen plasma nonequilibrium plasmas nonuniform plasmas weak energy interactions . . . oxygen plasma . . . rarefied plasmas . . . relativistic plasmas particle tracks oxygen plasma rarefied plasmas RT chemical analysis core sampling relativistic plasmas rotating plasmas cosmic rays fossils rotating plasmas semiconductor plasmas geochronology semiconductor plasmas ... space plasmas lunar rocks space plasmas . solar wind . solar wind . stellar winds meteoroids nuclear particles . stellar winds .... dusty plasmas radiation effects dusty plasmas . . . . spherical plasmas spherical plasmas thermal plasmas stratigraphy trace elements thermal plasmas . . . . toroidal plasmas toroidal plasmas . . primary cosmic rays ∞ tracks ionized gases ... solar cosmic rays . Lorentz gas . . radiation belts particle trajectories . . magnetically trapped particles ... artificial radiation belts GS trajectories particle trajectories . . . radiation belts inner radiation belt ... outer radiation belt . electron trajectories ... artificial radiation belts bubble chambers inner radiation belt ... proton belts charged particles . . . . outer radiation belt . . solar corpuscular radiation . . . . proton belts . . . solar electrons electron optics ionizing radiation . . partons . . . solar neutrinos . . . solar neutrons ∞ motion . . plasma clouds . . . magnetic clouds . . solar protons ∞ paths . . plasma jets . drops (liquids) racetracks (particle accelerators) . . raindrops . . . radio jets (astronomy) ∞ tracks . . plasma layers . dust particles . . . plasma sheaths . . cosmic dust DEF Elementary subatomic particles such plasma slabs . . . interplanetary dust as protons, electrons or neutrons. Very small pieces of matter. In celestial mechanics, hypo-. . positrons . . . . meteoroid dust clouds . . . . zodiacal dust . . protons thetical entities which respond to gravitational forces but which exert no appreciable gravitational force on other bodies, thus simplifying orbital computations. . . lunar dust . . terrestrial dust belt . . . recoil protons solar protons . elementary particles . corpuscular radiation electron precipitation particles GS electron radiation . . . antineutrinos . aerosols beta particles antinucleons . . fog electron beams . . . antiprotons . charged particles . . relativistic electron beams ... positrons . . antiprotons energetic particles . . beta particles energetic particles electrons . . bosons . electrons conduction electrons alpha particles conduction electrons free electrons Higgs bosons free electrons high energy 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 nuclei (nuclear physics) solar electrons . . . . pions . . nuclei (nuclear physics) alpha particles . . . . vector mesons alpha particles deuterons .... rho-mesons deuterons even-even nuclei sigma-mesons . . . photons even-even nuclei heavy nuclei heavy nuclei hypernuclei hypernuclei . . . xi hyperons odd-even nuclei . . deuterons odd-even nuclei odd-odd nuclei . . electron-positron pairs odd-odd nuclei . . fermions . . tritons . . . plasmas (physics) . . . baryons . . . . tritons ... plasmas (physics) . . . . argon plasma . . . . hyperons

xi hyperons	alpha particles	RT aerosols
omega-mesons	Higgs bosons	air pollution
rho-mesons	mesons	air quality
	eta-mesons	air sampling
sigma-mesons		1 0
eta-mesons	hyperons	atmospheric composition
leptons	xi hyperons	combustion products
antineutrinos	kaons	contaminants
	meson resonance	dispersions
electrons	X mesons	dust
conduction electrons		
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	·	Solid Suspensions
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	partitions (mathematics)
neutrons	powdered aluminum	partitions (structures)
cold neutrons	sintered aluminum powder	
fast neutrons	·	septum
photoneutrons	. relativistic particles	
	relativistic electron beams	partitions (mathematics)
solar neutrons	. trapped particles	GS analysis (mathematics)
thermal neutrons	· · · ·	
protons	magnetically trapped particles	. combinatorial analysis
	radiation belts	partitions (mathematics)
recoil protons	artificial radiation belts	RT combinations (mathematics)
solar protons	inner radiation belt	equivalence
hadrons	outer radiation belt	•
baryons		∞ partitions
	proton belts	permutations
hyperons	. nanoparticles	Voronoi diagrams
xi hyperons	RT air pollution	
omega-mesons		nortitions (structures)
rho-mesons	chemical clouds	partitions (structures)
	∞ clouds	RT bulkheads
sigma-mesons	colloids	curtains
mesons	deuteron irradiation	∞ partitions
eta-mesons	dirt	· · · · · · · · · · · · · · · · · · ·
hyperons		thin walls
	dispersions	walls
xi hyperons	gas atomization	
kaons	∞ grains	partons
meson resonance		•
X mesons	granular materials	GS particles
	grit	. charged particles
muons	ion stripping	partons
omega-mesons		. elementary particles
pions	ions	
·	neutral beams	hypothetical particles
vector mesons	neutron beams	partons
rho-mesons	nodules	RT hadrons
sigma-mesons		leptons
hypothetical particles	nonpoint sources	The state of the s
	particle laden jets	quark parton model
magnetic monopoles	particle production	quarks
nucleons	particle size distribution	
gluons	positron annihilation	parts
gravitinos	Programme and the second secon	USE components
	precipitation particle measurement	USE components
gravitons	proton precipitation	
partons	smoke	PAS
quarks		UF perigee-apogee satellites
tachyons	particulate filters	GS artificial satellites
weakly interacting massive	•	. PAS
	USE fluid filters	
particles		RT elliptical orbits
. flakes	particulate reinforced composites	twenty-four hour orbits
. metal particles	(added January 1992)	, , , , , , , , , , , , , , , , , , ,
metal powder	, ,	Deceal (programming language)
•	GS composite materials	Pascal (programming language)
platinum black	. particulate reinforced composites	DEF High order computer programming lan-
powdered aluminum	RT metal matrix composites	guage developed by Niklaus Wirth originally as
sintered aluminum powder	metal particles	an educational tool to foster structured program
. microparticles	microparticles	ming.
. mist	nanocomposites	GS languages
. neutral particles	particulates	. programming languages
gravitinos		. Pascal (programming language)
	reinforcing materials	
neutrons		RT compilers
cold neutrons	particulate sampling	computer programming
fast neutrons	GS sampling	· · · -
photoneutrons	1 0	Paschen series
	. particulate sampling	
solar neutrons	RT assaying	GS spectra
thermal neutrons	chemical analysis	. radiation spectra
. nuclear particles	concentration (composition)	electromagnetic spectra
antiparticles		line spectra
	identifying	
antineutrinos	particulates	Paschen series
antinucleons		RT absorption spectra
antiprotons	particulates	atomic spectra
		electron transitions
positrons	GS particles	
beta particles	. particulates	emission spectra
bosons	soot	H lines

hydrogen	. IL-62 aircraft . IL-76 aircraft	ultrahigh frequencies
Pasiphae	. IL-76 aircraft	passive nosetip technology
(added January 1996)	. IL-96 aircraft	USE PANT program
DEF A natural satellite of Jupiter orbiting at	. Jetstream aircraft	
a mean distance of 23,500,000 kilometers.	. L-1011 aircraft	passive satellites
GS celestial bodies	. L-2000 aircraft	UF reflector satellites GS artificial satellites
. natural satellites Jupiter satellites	. MD 11 aircraft	. passive satellites
Pasiphae	. MD 80 aircraft . Mystere 20 aircraft	Beacon satellites
RT Jupiter (planet)	. Mystere 50 aircraft	Beacon Explorer A
(l )	. OH-5 helicopter	Explorer 22 satellite
passageways	. P-160 aircraft	Echo satellites
DEF A pass-through between non-adjacent	. P-166 aircraft	Echo 1 satellite
modules or spaces.	. SE-210 aircraft	Echo 2 satellite
GS <b>passageways</b> . straits	. T-39 aircraft	LAGEOS (satellite) PAGEOS satellite
Torres Strait	. TU-104 aircraft . TU-124 aircraft	RT active satellites
. transfer tunnels	. TU-134 aircraft	communication satellites
RT approach	. TU-144 aircraft	Echo project
cavities	. TU-204 aircraft	geodetic satellites
corridors	. U-10 aircraft	navigation satellites
gaps	. VC-10 aircraft	satellite laser ranging
notches openings	. Viscount aircraft	synchronous satellites
∞ paths	. Yak 40 aircraft . YS-11 aircraft	passivity
roads	RT air transportation	. UF passivation
∞ tunnels	∞ aircraft	RT anodizing
underground structures	AN-22 aircraft	chemical attack
vestibules	AN-24 aircraft	chemical properties
nacannas aisesaft	C-121 aircraft	coatings
passenger aircraft UF executive aircraft	cargo aircraft	corrosion corrosion prevention
GS passenger aircraft	civil aviation	corrosion resistance
. BAC 111 aircraft	commercial aircraft DC 7 aircraft	deactivation
. BO-105 helicopter	E-2 aircraft	electrolysis
. Boeing 707 aircraft	general aviation aircraft	∞ inhibition
. Boeing 720 aircraft	ground effect machines	inhibitors
. Boeing 727 aircraft	HC-3 helicopter	oxidation
. Boeing 737 aircraft . Boeing 747 aircraft	jet aircraft	oxidation resistance rusting
. Boeing 757 aircraft	light aircraft	siliconizing
. Boeing 767 aircraft	light transport aircraft ∞ low wing aircraft	5g
. Boeing 777 aircraft	Mercure aircraft	paste (consistency)
. Boeing 2707 aircraft	MH-262 aircraft	DEF Mixtures with characteristic soft or
. Breguet 941 aircraft . C-33 aircraft	∞ military aircraft	plastic consistencies. RT mixtures
. C-35 aircraft	P-531 helicopter	HI IIIIXtules
. C-46 aircraft	PD-808 aircraft	pastes
. Cessna 172 aircraft	rotary wing aircraft Saab 105 aircraft	DEF Adhesive compositions having a char-
. Cessna 205 aircraft	SC-7 aircraft	acteristic plastic-type consistency, that is, high
. Cessna 210 aircraft	short haul aircraft	order of yield values, such as that of pastes
. Cessna 402B aircraft	∞ subsonic aircraft	prepared by heating a mixture of starch and
. CH-3 helicopter	supersonic aircraft	water and subsequently cooling the hydrolyzed product.
. CH-46 helicopter . CH-47 helicopter	supersonic transports	GS adhesives
. CH-54 helicopter	transport aircraft	. pastes
. Comet 4 aircraft	TU-154 aircraft	RT glues
. commuter aircraft	turbofan aircraft turboprop aircraft	plasters
ATR-72 aircraft	V/STOL aircraft	and the state of
. CV-340 aircraft	very large transport aircraft	pasteurizing GS heating
. CV-440 aircraft . CV-880 aircraft	water takeoff and landing aircraft	GS heating . <b>pasteurizing</b>
. CV-990 aircraft		RT purification
. DC 8 aircraft	passengers	sterilization
. DC 10 aircraft	RT airline operations	
. DH 121 aircraft	automated guideway transit vehicles automated mixed traffic vehicles	patch antennas
. DH 125 aircraft	automated transit vehicles	(added June 1997)
. DO-27 aircraft	payloads	GS antennas . <b>patch antennas</b>
. DO-28 aircraft	rapid transit systems	RT antenna arrays
. DO-328 aircraft . Electra aircraft	riding quality *	antenna design
. European Airbus	transportation	microstrip antennas
A-300 aircraft		microwave antennas
A-310 aircraft	passes	
A-320 aircraft	USE gaps (geology)	patch tests SN (CONDITIONS FOR ASSESSING FINITE
A-330 aircraft	passivation	SN (CONDITIONS FOR ASSESSING FINITE ELEMENT METHOD CONVERGENCE AND
A-340 aircraft A-380 aircraft	USE passivity	STABILITY PROPERTIES)
. Boeing 717 aircraft	, passering	RT convergence finite element method
. F-27 aircraft	passive elements	hydraulic fluids
. F-28 helicopter	USE parasitic elements (antennas)	structural analysis
. F-28 transport aircraft		∞ tests
. G-1 aircraft	passive L-band radiometers	
. G-222 aircraft	GS measuring instruments	patent applications
. H-19 helicopter	. radiation measuring instruments	RT copyrights
. H-53 helicopter . H-56 helicopter	actinometers radiometers	inventions licensing
. H-36 helicopter	passive L-band radiometers	patents
. HS-748 aircraft	RT microwave frequencies	product development
	•	•

	technology utilization		operations research		molds
patent	nolicy		optical paths		photomasks
	policies		orbits particle trajectories		prototypes radiation distribution
0.0	. patent policy		passageways		regularity
RT	intellectual property		PERT		resins
	inventions		routes		speckle patterns
	patents		sound transmission		synthetic arrays
	product development regulations		thermodynamics		templates
	rules		trajectories		test pattern generators Widmanstatten structure
		patient	8		Widinaristation structure
patents		RT	human beings	Patters	son map
GS	intellectual property		human pathology	GS	charts
RT	. patents claiming		therapy		. graphs (charts)
nı	grants	Patriot	missile	RT	Patterson map crystal lattices
	inventions	DEF	Surface to air, antiaircraft missile.	111	crystal structure
	patent applications	GS	missiles		lattice parameters
	patent policy		. surface to air missiles		•
path pla	anning	DT	Patriot missile		xclusion principle
	trajectory planning		missile configurations orockets	GS	mechanics (physics) . quantum mechanics
002	jeeser, p.ag		weapons		Pauli exclusion principle
	der nuclear reactor				wave functions
GS	nuclear electric power generation	patrols			. Pauli exclusion principle
	. nuclear power reactors Pathfinder nuclear reactor	RT	reconnaissance	RT	atomic structure
	nuclear reactors	pattern	distribution		exclusion
	. liquid cooled reactors		distribution (property)		fermions
	water cooled reactors			pavem	ents
	boiling water reactors		method (forecasting)	RT	asphalt
	Pathfinder nuclear reactor	GS	management methods . pattern method (forecasting)		coatings
	. nuclear power reactors		predictions		concretes
	. Pathfinder nuclear reactor		. forecasting		foundations
pathog	enesis		technological forecasting		highways roads
	cholera		pattern method (forecasting)		runways
	diseases	RT	1 \		streets
	pathogens		estimating o methodology		
pathog	one	c	operations research		d assist module
DEF			planning		Rocket vehicle with a spinning solid- ant motor to attain injection velocity to
	o living organisms.		probe method (forecasting)		payload into intended orbits from the
RT	bacteria		technology assessment		orbits of the STS.
	Clostridium botulinum				modules
	pathogenesis		recognition The identification of shapes, forms and		. payload assist module
natholo	gical cell death		rations by automatic means.		rocket vehicles
	ed October 2000)	UF	automatic pattern recognition	рт	. payload assist module
	necrosis		feature extraction	RT	instrument packages payloads
		GS	3		Space Shuttle payloads
	egical effects		. pattern recognition		space transportation system
GS	pathological effects . necrosis		character recognition graphology		spaceborne experiments
RT	biological effects	RT	change detection	navlas	d combrel
	carbon monoxide poisoning		clumps		d control  Execution of events involved in oper-
	cholera		cluster analysis		e payload and supporting systems.
	diseases		computer vision		∞ control
٥	• effects		context		payloads
	physiological responses stress (biology)		edge detection Feature Identification and Location		sounding rockets
	Stress (biology)		Exper		space shuttles
patholo	gy		gray scale	pavloa	d delivery (STS)
GS	medical science		image analysis		The transport of payloads via the
	. pathology		image classification	Space	Transportation System including ground
RT	human pathology animal models		multisensor applications		n orbit delivery by the Space Shuttle and
ΠI	autopsies		optical relay systems principal components analysis		orbit delivery via orbit transfer vehicles.
	diagnosis		readers	GS	delivery
	dissection		repetition	RT	. payload delivery (STS) Advanced Launch System (STS)
	hemorrhages		·		electric power supplies
	necrosis		registration		Multi-Purpose Logistics Modules
	radiation therapy	RT	comparison		orbit insertion
	veterinary medicine		image contrast image correlators		orbit transfer vehicles
paths			image motion compensation		orbital launching
SN	(USE OF A MORE SPECIFIC TERM IS		image reconstruction		payloads power modules (STS)
	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		image resolution		solar arrays
UF	courses		imaging techniques		space transportation system
	lanes		magnetic signatures		
RT	critical path method		matching		d deployment & retrieval system
	diffraction paths	∞ pattern	s	DEF vices v	System of mechanical and control de-
	duality principle flight paths	SN	(USE OF A MORE SPECIFIC TERM IS		vith associated data systems, for payload g in space.
	ground tracks		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		manipulators
	mean free path	RT	diffraction patterns	• • • •	NASA programs
	meteor trails		distribution (property)		orbit transfer vehicles
	multipath transmission		drainage patterns		payloads
	network analysis		kurtosis		remote handling

remote manipulator system . . OSTA-3 payload passenger aircraft space shuttles . . Physics and Chemistry Experiment PDE (engines) Space Station Mobile Servicing in Space (added March 2001) System ... plasma interaction experiment USE pulse detonation engines . . Spacelab ∞ systems . . X Ray Astrophysics Facility PDM (modulation) payload integration . space station payloads USE pulse duration modulation RT mission planning . Spacelab payloads payload integration plan . . AMPS (satellite payload) PDP 7 computer payloads . . Atmospheric Cloud Physics Lab GS data processing equipment Space Shuttle payloads (Spacelab) . computers . . Atmospheric General Circulation . . digital computers payload integration plan Experiment ... PDP computers DEF Procedures providing for compatibility . . geophysical fluid flow cells PDP 7 computer of spaceborne experiments with the carrier . . Solar Cell Calibration Facility PDP 9 computer spacecraft (e.g., shuttle orbiter). aircraft performance payload integration aircraft specifications PDP 8 computer payloads annular suspension and pointing GS data processing equipment ∞ plans system . computers Space Shuttle orbiters Apollo Lunar Surface Experiments . . digital computers Package Space Shuttle payloads ... PDP computers space transportation system asteroid capture .... PDP 8 computer spaceborne experiments EASEP German Infrared Laboratory PDP 9 computer instrument packages LIRTS (telescope) payload mass ratio GS data processing equipment ratios GS . computers . mass ratios ∞ loading . . digital computers . payload mass ratio loads (forces) ... PDP computers multistage rocket vehicles passengers PDP 9 computer piggyback systems payload assist module RT PDP 7 computer pressure ratio payload control propellant mass ratio payload delivery (STS) PDP 10 computer payload deployment & retrieval UF System 10 computer
GS data processing equipment payload retrieval (STS) system retrieval payload integration . computers payload retrieval (STS) payload integration plan . . digital computers . . . PDP computers orbit transfer vehicles payload stations orbital rendezvous piggyback systems .... PDP 10 computer payload transfer Space Processing Applications remote manipulator system Rocket PDP 11 computer space shuttles GS data processing equipment computers space transportation space transportation system space tugs stationkeeping spaceborne experiments . . digital computers ... PDP computers
... PDP 11 computer warheads payload stations ∞ weiaht THE POSITION OR MOUNTING PLACE FOR A PAYLOAD ONBOARD A ROCKET VEHICLE, SPACECRAFT, OR SPACE STATION; EXCLUDES ORBITAL STATIONS AND CREW WORKSTATIONS)

The locations in the Space Shuttles' weight (mass) PDP 11/20 computer GS data processing equipment PBB . computers USE polybrominated biphenyls . . digital computers flight decks and cargo bay at which payloads are . . . PDP computers PBRE (reactors) mounted. .... PDP 11/20 computer USE pebble bed reactors GS stations payload stations PDP 11/40 computer payloads PCB data processing equipment space transportation USF polychlorinated biphenyls . computers . . digital computers payload transfer ... PDP computers PCM (materials) The in-space movement of payloads .... PDP 11/40 computer USE phase change materials from point to point. orbital servicing PDP 11/45 computer PCM (modulation) payload retrieval (STS) GS data processing equipment USE pulse code modulation space maintenance . computers . . digital computers **PCM** telemetry . . . PDP computers payloads telecommunication Originally, the revenue producing por-. telemetry tions of an aircraft's load, e.g., passengers, . PCM telemetry cargo, and mail. By extension, that which an PDP 11/50 computer transmission aircraft, rocket, or spacecraft carries over and GS data processing equipment . signal transmission above which is necessary for the operation of . computers . . telemetry . . digital computers . . . PDP computers the vehicle for its flight. **PCM** telemetry GS payloads differential pulse code modulation EXPOS (Spacelab payload) .... PDP 11/50 computer pulse code modulation OSTA-2 payload . SEPAC (payload) PDP 11/70 computer . sortie systems PD-808 aircraft GS data processing equipment . Space Shuttle payloads Douglas PD-808 aircraft . computers . . Advanced Technology Laboratory Piaggio-Douglas PD-808 aircraft . . digital computers ... PDP computers Astro missions (STS) jet aircraft . . Atmospheric General Circulation PD-808 aircraft Experiment light aircraft . . Earth radiation budget experiment PD-808 aircraft PDP 12 computer . . Earth Viewing Applications Laboratory GS data processing equipment McDonnell Douglas aircraft . Douglas aircraft . computers

. PD-808 aircraft

. PD-808 aircraft Piaggio aircraft . PD-808 aircraft

monoplanes

RT ∞ aircraft

. . digital computers
. . . PDP computers
. . . PDP 12 computer

GS data processing equipment

PDP 15 computer

. . electromagnetic environment

. . Get Away Specials (STS)
. . Halogen Occultation Experiment
. OSS-1 payload

experiment

. . OSTA-1 payload

	. computers	. chei	mical fuels		Hall effect
	digital computers	hy	drocarbon fuels		
	PDP 15 computer	fo	ssil fuels	pedimer	nts
			peat	USE	piedmonts
	mputers	organ	ic materials		
GS	data processing equipment	. pea	t	pediplaii	าร
	. computers	resou		USE	piedmonts
	digital computers		h resources		•
	PDP computers		sil fuels	pedolog	<i>y</i>
	PDP 7 computer	р	eat		soil science
	PDP 8 computer	RT coal			
	PDP 9 computer	sedin	nents	PEEK	
	PDP 10 computer			DEF	A class of semicrystalline polymers
	PDP 11 computer				olyayrlene ethers for use as molding
	PDP 11/20 computer	pebble bed re	eactors		nds and for use as composite matrix
	PDP 11/40 computer	UF PBRI	E (reactors)		s. Used for polyetheretherketones.
	PDP 11/45 computer	GS nucle	ar reactors	UF	polyetheretherketones
	PDP 11/50 computer	. peb	ble bed reactors	GS	plastics
	PDP 11/70 computer	RT react	or design	ao	. synthetic resins
	PDP 12 computer	reacto	or technology		polyether resins
DDDE /	,				PEEK
	engines)				thermoplastic resins
	ed March 2001)	Peclet number	r		PEEK
USE	pulse detonation engines		ndimensional number arising in		resins
DDC /			eat transfer in fluids.		. synthetic resins
	pectroscopy)		nsionless numbers		polyether resins
,	ed November 1998)		let number		PEEK
USE	photothermal deflection	ratios			thermoplastic resins
	spectroscopy		let number		PEEK
ם מוער ה	, , ,	RT adve		RT	carbon fiber reinforced plastics
	(engines)		transfer	пі	ethers
,	ed March 2001)		itansier Itl number		ketones
USE	pulse detonation engines		olds number		
D/			al diffusion		polymer matrix composites resin matrix composites
	eeper missile	uieiii	ai dilusion		resin matrix composites
USE	MX missile				
				peeling	
peacetii		peculiar galax		RT	adhesion
RT	electronic warfare	•	rember 1988)		cutting
	histories	GS celes			debonding (materials)
	international cooperation	. gala			delaminating
	international law		culiar galaxies		flaking
	warfare		cal galaxies		mechanical properties
		galac	tic structure		shedding
peaks		spiral	galaxies	~	stripping
	WIGE OF A MODE OPERIES TERM IS	00			
SN	(USE OF A MORE SPECIFIC TERM IS	op.i.d.			
	RECOMMENDEDCONSULT THE TERMS	op.i.a.		peening	
		peculiar stars		<b>peening</b> GS	metal finishing
SN	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)	peculiar stars			
SN	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) apexes	peculiar stars	with spectra that cannot be con-		metal finishing
SN	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) apexes extremum values	peculiar stars DEF Stars veniently fitted	with spectra that cannot be con- into any of the standard spectral		metal finishing . <b>peening</b>
SN	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) apexes extremum values maxima	peculiar stars DEF Stars veniently fitted classifications.	with spectra that cannot be con- into any of the standard spectral They are denoted by a "p" after	GS	metal finishing . peening shot peening
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Pearsor GS  Peat DEF duced fr tegration	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 te. cementite ferrites iron alloys microstructure steels  distributions functions (mathematics) . probability density functions . Pearson distributions statistical analysis . probability density functions . Pearson distributions statistical distributions statistical distributions  statistical distributions  Dark brown or black residuum pro- om the partial decomposition and disin- nor mosses, hedges, trees, and other	peculiar stars  DEF Stars veniently fitted classifications. their spectral t GS celes . stars . pe s RT A sta B sta hot st magn stella stella  pedals RT levers manu  Pedersen cur (added Dec DEF lonic spheric condu GS electr . atm . ion . Pe electr . atm . ion F ion cu	with spectra that cannot be coninto any of the standard spectral They are denoted by a "p" after ype. tial bodies seculiar stars hell stars igma Orionis ymbiotic stars respectra respectra respectra respectrophotometry restructure  seal control  rents  rember 2001)  currents flowing parallel to ionocitive electric fields. ic currents spheric currents dersen currents edersen currents	Pegasus (adde GS)  RT  Pegasus GS  Pegasus USE  Pegasus GS  RT  pelagic GS  RT	metal finishing . peening . shot peening cold working hardening (materials) metal working work hardening s air-launched booster ad May 1990) launch vehicles . Pegasus air-launched booster rocket vehicles . multistage rocket vehicles . Pegasus air-launched booster air launching B-52 aircraft X-43 vehicle s computer data processing equipment . computers . Pegasus computer s engine Bristol-Siddeley BS 53 engine s satellites artificial satellites . Pegasus satellites Saturn project zone regions . pelagic zone
peaks (IUF GS RT Pearlite DEF cementii RT Pearsor GS Pe	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 n distributions functions (mathematics) . probability density functions . Pearson distributions statistical analysis . Pearson distributions statistical distributions . Pearson distributions  Dark brown or black residuum pro- om the partial decomposition and disin-	peculiar stars  DEF Stars veniently fitted classifications. their spectral t GS celes . stars pe s RT A sta B sta hot st magn stella stella  pedals RT levers manu  Pedersen cur (added Dec DEF lonic spheric condu GS electr . iono . Pe electr . atm . ior P ion cc . Ped	with spectra that cannot be coninto any of the standard spectral They are denoted by a "p" after ype. ital bodies culiar stars hell stars igma Orionis ymbiotic stars rs etic stars r spectra r spectrophotometry r structure  rents ember 2001) currents flowing parallel to ionocitive electric fields. ic current spheric currents dersen currents icity ospheric currents edersen currents ersen currents ersen currents ersen currents ersen currents	Pegasus (adde GS)  RT  Pegasus GS  Pegasus USE  Pegasus GS  RT  pelagic GS  RT  pellets	metal finishing . peening . shot peening cold working hardening (materials) metal working work hardening s air-launched booster ad May 1990) launch vehicles . Pegasus air-launched booster rocket vehicles . multistage rocket vehicles . Pegasus air-launched booster air launching B-52 aircraft X-43 vehicle s computer data processing equipment . computers . Pegasus computer s engine Bristol-Siddeley BS 53 engine s satellites artificial satellites . Pegasus satellites Saturn project zone regions . pelagic zone oceanography
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peaks (IUF GS RT Pearlite DEF cementii RT Pearsor GS Pe	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 . Pearson distributions statistical analysis . Pearson distributions statistical distributions statistical distributions Dark brown or black residuum pro- om the partial decomposition and disin- n of mosses, hedges, trees, and other hat grow in marshes and other wet carbonaceous materials	peculiar stars  DEF Stars veniently fitted classifications. their spectral t GS celes . stars . pe s S S S . RT A sta B sta hot st magn stella stella stella  pedals  Pedersen cur (added Dec DEF lonic spheric condur GS electr . iono . Pe electr . atm . ior P ion c . Ped RT auror Birkel	with spectra that cannot be coninto any of the standard spectral They are denoted by a "p" after ype. tial bodies  culiar stars hell stars igma Orionis ymbiotic stars rs ars etic stars r spectra r spectrophotometry r structure  currents flowing parallel to ionoctive electric fields. ic current spheric currents dersen currents edersen currents edersen currents eresen currents eresen currents eresen currents eresen currents al zones and currents	Pegasus (adde GS)  RT  Pegasus GS  Pegasus USE  Pegasus GS  RT  pelagic GS  RT  pellets	metal finishing . peening . shot peening cold working hardening (materials) metal working work hardening s air-launched booster ad May 1990) launch vehicles . Pegasus air-launched booster rocket vehicles . multistage rocket vehicles . Pegasus air-launched booster air launching B-52 aircraft X-43 vehicle s computer data processing equipment . computers . Pegasus computer s engine Bristol-Siddeley BS 53 engine s satellites artificial satellites . Pegasus satellites Saturn project zone regions . pelagic zone oceanography briquets fuel capsules
Pearsor GS  Pear DEF cumentiin RT  Pearsor GS  Pearsor GS	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 and distributions  The pearson distributions are pearson distributions  The pearson distributions are pearson distributions	peculiar stars  DEF Stars veniently fitted classifications. their spectral t GS celes . stars . pe s s S	with spectra that cannot be coninto any of the standard spectral They are denoted by a "p" after ype. ital bodies culiar stars hell stars igma Orionis ymbiotic stars rs ars etic stars r spectra r spectrophotometry r structure  sal control  rents ember 2001) currents flowing parallel to ionocitive electric fields. ic current spheric currents dersen currents dersen currents edersen currents urrents ersen currents al zones	Pegasus (adde GS)  RT  Pegasus GS  Pegasus USE  Pegasus GS  RT  pelagic GS  RT  pellets	metal finishing . peening . shot peening cold working hardening (materials) metal working work hardening sair-launched booster ad May 1990) launch vehicles . Pegasus air-launched booster rocket vehicles . multistage rocket vehicles . Pegasus air-launched booster air launching B-52 aircraft X-43 vehicle s computer data processing equipment . computers . Pegasus computer s engine Bristol-Siddeley BS 53 engine s satellites artificial satellites . Pegasus satellites Saturn project  zone regions . pelagic zone oceanography briquets

∞ shot	drilling	RT	Allegheny Plateau (US)
n all'ala	fragmentation		Delaware Bay (US)
pellicle RT thin films	hydrodynamic ram effect		Delaware River Basin (US)
ni uiiii iiiiis	impact nuclear vulnerability		Ohio River (US) Susquehanna River Basin
pelomyxa	percolation		(MD-NY-PA)
GS animals	perforating		(IVID-IVI-IA)
. 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
metals on the passage of an electrical current.			boranes
RT ∞ effects	penetrometers		<b>pentaboranes</b> hydrogen compounds
Seebeck effect	DEF Simple devices for measuring the pen-		. hydrides
temperature effects	etrating power of a beam of x rays or other		boron hydrides
thermocloatric cooling	penetrating radiation by comparing transmission		boranes
thermoelectric cooling thermoelectricity	through various absorbers.		pentaboranes
thermoelectricity thermophysical properties	GS measuring instruments		
thermophysical properties	. <b>penetrometers</b> RT lunar soil	pentacl	
pelvis	nı lullal soli	USE	chlorides
GS anatomy	penicillin	nantaa	nuthrital tatvanituata
. musculoskeletal system	GS drugs		rythritol tetranitrate PETN
bones	. antibiotics	USE	PEIN
pelvis	penicillin	pentan	es
RT girdles	•	GS	organic compounds
penalties	Peninsular Ranges (CA)		. hydrocarbons
GS law (jurisprudence)	GS landforms		aliphatic hydrocarbons
. public law	. mountains		alkanes
penalties	<b>Peninsular Ranges (CA)</b> RT California		pentanes
RT air law	ni Galilottila		neopentane
disciplining	peninsulas		
judgments	DEF Elongated bodies or stretches of land	pentan GS	ketones
legal liability	nearly surrounded by water and connected with	do	. pentanone
liabilities	a larger land area, usually by a neck or an		organic compounds
prohibition	isthmus. The term is derived from the Latin		. pentanone
regulations	'paeninsula' "almost island."	RT	
penalty function	GS landforms		acetylacetone
DEF In mathematics, a function used in	. peninsulas		
treating maxima and minima problems subject	Delmarva Peninsula (DE-MD-VA)	pentob	
to restraints.	RT isthmuses land	RT	drugs
GS functions (mathematics)	water		narcotics
. penalty function	water		sedatives
RT constraints	Penning discharge	nentoh	arbital sodium
∞ functions	DEF A direct current discharge where elec-		drugs
maxima	trons are forced to oscillate between two op-	0.0	. pentobarbital sodium
minima entimization	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 <b>Penning discharge</b>	RT	electron tubes
RT antenna design	RT electrodeless discharges		semiconductor devices
antenna radiation patterns	gas ionization		tetrodes transistors
radar beams	ion motion		vacuum tubes
nondulous gurascanas	plasma generators		vacuum tubes
pendulous gyroscopes USE gyroscopic pendulums		pentoli	te
OOL Sylvacopic 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		
gyroscopic pendulums	gas ionization	pentos	
RT accelerometers	laser cooling metastable atoms	GS	organic compounds . carbohydrates
gravitation	metastable atoms		sugars
momentum oscillations	Penning gages		monosaccharides
timing devices	GS measuring instruments		pentose
uning asvices	. pressure gages		ribose
penetrants	vacuum gages		xylose
RT ∞ agents	ionization gages		•
preservatives	Penning gages	penum	
retardants	vacuum apparatus	GS	shadows
	. vacuum gages	DT	. penumbras
penetrating particles	ionization gages	RT	
USE corpuscular radiation	Penning gages		umbras
penetration	Pennsylvania	PEOI E	satellites
DEF The depths to which one material ex-	GS nations		artificial satellites
tends into or penetrates another.	. United States	45	. French satellites
RT diffusion	Pennsylvania		. PEOLE satellites

RT	geophysical satellites	vision	been extended to the analysis of some problems
	geophysical satellites	VISIOII	in acoustics.
Peoples	Democratic Republic of Germany	perceptrons	UF PML (electromagnetism)
,	East Germany	USE self organizing systems	GS conditions
002	zaot domany		. boundary conditions
nonnor		perceptual errors	perfectly matched layers
pepper	o food	DEF Deviations from accuracy in the per-	RT computational electromagnetics
111 *	- 100u	ception of objects, shapes, colors, weights, etc.,	computational grids
nonoin		through the use of the senses.	electromagnetic absorption
<b>pepsin</b> GS	biopolymers	RT display devices	electromagnetic scattering
GS	. proteins	visual perception	finite difference theory
	enzymes	visual stimuli	finite element method
	pepsin	perceptual time constant	Maxwell equation
	organic compounds	GS constants	perfluoro compounds
	. proteins	. time constant	GS perfluoro compounds
	enzymes	perceptual time constant	. perfluoroalkane
	pepsin	RT perception	. perfluoroguanidine
RT	papain	reaction time	· p
		sense organs	perfluoroalkane
peptide	s	sensorimotor performance	GS halogen compounds
GS	organic compounds	velocity	. fluorine compounds
	peptides		fluoro compounds
	polypeptides	perchlorates	difluoro compounds
	angiotensins	GS halogen compounds	perfluoroalkane
	glutathione	. chlorine compounds	fluorine organic compounds
	hypertensin	perchlorates	perfluoroalkane
	vasopressins	aluminum perchlorates ammonium perchlorates	organic compounds
RT	amino acids	hydrazine perchlorates	. fluorine organic compounds <b>perfluoroalkane</b>
	aspartic acid	hydrogen perchlorate	•
	proteins	hydrogen perchlorates	perfluoro compounds
		lithium perchlorates	. perfluoroalkane
percent		magnesium perchlorates	perfluoroguanidine
USE	ratios	nitronium perchlorate	GS halogen compounds
		potassium perchlorates	. fluorine compounds
percep	tion	RT chlorates	fluoro compounds
GS	perception	perchloric acid	fluorine organic compounds
	. binaural hearing	•	perfluoroguanidine
	. motion perception	perchloric acid	organic compounds
	. sensory perception	GS acids	fluorine organic compounds
	auditory perception	perchloric acid	perfluoroguanidine
	consciousness	RT perchlorates	perfluoro compounds
	extrasensory perception		perfluoroguanidine
	kinesthesia	perchloryl fluorides	RT guanidines
	olfactory perception	GS halogen compounds	
	pain	. fluorine compounds fluorides	perforated plates
	pain sensitivity proprioception	perchloryl fluorides	GS structural members
	autokinesis	. halides	. plates (structural members)
	taste	fluorides	<b>perforated plates</b> RT anisotropic plates
	touch	perchloryl fluorides	RT anisotropic plates cavities
	tactile discrimination	peremory muonues	hole geometry (mechanics)
	vertical perception	percolation	holes (mechanics)
	vibration perception	RT beds (process engineering)	openings
	visual perception	concentrating	∞ perforation
	critical flicker fusion	diffusion	porous boundary layer control
	space perception	extraction	stress concentration
	autokinesis	filtration	
	visual discrimination	interstices	perforated shells
	. gravity perception	leaching	GS shells (structural forms)
	. sound localization	lysimeters	perforated shells
RT	acuity	penetration	RT arches
	adaptation	permeability	cavities
	artificial intelligence character recognition	permeating	enclosures
	cognition	seepage ∞ separation	fairings
	color	∞ separation voids	hole distribution (mechanics)
	contrast	Volus	hole geometry (mechanics) holes (mechanics)
	electrocutaneous communication	Percus method	housings
	frequency response	RT flow equations	hulls (structures)
	identifying	integral equations	membrane structures
	illusions	∞ methodology	nacelles
	images	37	∞ perforation
	information processing (biology)	percussion	pressure vessel design
0	o interpretation	RT detonation	rocket engine cases
	knowledge	impact	shell theory
	legibility	physical examinations	stress concentration
	monocular vision	primers (explosives)	
	perceptual time constant		perforating
	reading	perfect gas	RT burnthrough (failure)
	resolution	USE ideal gas	cutting
	retinal adaptation	wowfoothy wetched low	drilling
	sensitivity	perfectly matched layers	formations
	sensory deprivation	(added July 1998)	fracturing
	sensory feedback situational awareness	DEF In the area of computational electro- magnetism, an absorbing boundary condition	gas injection injection
	symbols	used for terminating infinite domain calculations	metal cutting
	thresholds (perception)	in the finite-difference time-domain (FDTD) or	metal working
	visibility	finite element methods. The approach has also	penetration
		distribute. The approach has also	Policiation

0	perforation		magnesium compounds		periodic variations
	piercing		. magnesium oxides		alternations
	water injection		. periclase		annual variations diurnal variations
perfora	tion	peridoti	te		intraseasonal variations
SN	(USE OF A MORE SPECIFIC TERM IS	UF	kimberlite		nocturnal variations
	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)	GS	rocks		secular variations
RT	cavities		. igneous rocks		Madden-Julian Oscillation
	holes (mechanics)	RT	peridotite chromites	RT	quasi-biennial oscillation
	perforated plates		dunite	ΠI	autocorrelation cataclysmic variables
	perforated shells perforating		olivine		climatology
	piercing		regolith		cycles
	piorollig		soils		dendrochronology
perforn		porigoo	-apogee satellites		el Nino
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	USE			extrapolation
	LISTED BELOW)	002	. Ac		Fourier analysis long term effects
RT	aircraft performance	perigee			oscillations
	astronaut performance		Those orbital points nearest the Earth		oscillators
	comfort complexity		e Earth is the center of attraction.		polar wandering (geology)
	computer systems performance	GS	apsides . <b>perigees</b>		regularity
	consistency	RT	apogees	0	orhythm
	efficiency		Earth orbits		semiregular variable stars Southern Oscillation
	effort		elliptical orbits		trends
	environments		orbits		variability
	evaluation		perilunes		variable stars
	examination	poriboli	one		
	fatigue (biology) figure of merit	<b>periheli</b> DEF		periodi	cals
	flight characteristics	nearest	Those points in solar orbits which are the sun.	UF	journals (documents)
	human factors engineering	GS	apsides	GS	documents
	human performance		. perihelions		periodicals
	long term effects	RT	aphelions	RT •	o journals
	mental performance		elliptical orbits		records
	modulation transfer function		orbital elements	n a ria dia	
	observation		orbits	periodic	ny periodic variations
	operator performance		solar orbits	USL	periodic variations
	optical transfer function output	perilune	26	periodic	rity (biology)
	performance tests	GS	apsides		rhythm (biology)
	pilot performance		. perilunes		, ( 3,,
	postflight analysis	RT	lunar orbits	periphe	eral circulation
	propulsion system performance		lunar satellites		circulation
	quality		perigees		. blood circulation
	ratings		L. LP.		peripheral circulation
	reliability	•	doubling		
	spacecraft performance	DEF to two	The bifurcation of a nonlinear system stable periodic cycles on its route to		eral equipment (computers)
	standards		turbulence.	SN	(EXCLUDES COMPUTER-CONTROLLED
	task complexity	GS	branching (mathematics)	DEF	EQUIPMENT) Equipment that works in conjunction
	training evaluation	ac	. period doubling		computer but is not part of the computer
perform	nance prediction	RT	chaos		ard or paper-tape readers or punches
GS	predictions		periodic functions		ic tape handlers, or line printers ar
	. performance prediction		transition flow		items of peripheral equipment.
RT	evaluation		turbulence		auxiliary equipment (computers)
	management		turbulent flow	GS	
	prediction analysis techniques	neriod e	equations		<ul> <li>peripheral equipment (computers)</li> <li>printers (data processing)</li> </ul>
	reliability reliability analysis	USE	periodic functions		remote consoles
	reliability analysis reliability engineering	002	por out of the control of the contro		data processing equipment
	trend analysis	periodio	functions		. peripheral equipment (computers)
	and analysis	UF	period equations		printers (data processing)
perform	nance tests	GS	analysis (mathematics)		remote consoles
SN	(APPLY ONLY TO OPERATING		. real variables	RT	0 0
RT	EQUIPMENT) accelerated life tests		periodic functions trigonometric functions		computer storage devices
	acceptability		cosine series		computer systems design
	certification		sine series		data processing
	checkout		tangents		digital to analog converters  o equipment
	computer systems performance		functions (mathematics)		magnetic disks
	field tests		. transcendental functions		magnetic tapes
	hardware-in-the-loop simulation		periodic functions		modems
	inspection		trigonometric functions		plotters
0	performance		cosine series		
	space vehicle checkout program specifications		sine series	periphe	eral jet flow
	standards	DΤ	tangents		fluid flow
0	• tests	ΠI	Floquet theorem Fourier analysis		. jet flow
			period doubling		. peripheral jet flow
perfusio			p - 2	RT	
USE	diffusion	periodic	orbits		ground effect (aerodynamics)
			orbits		ground effect machines
periclas					lift augmentation
GS	chalcogenides . oxides		processes	nerinho	eral nervous system
	metal oxides	USE	cycles	GS	•
	alkaline earth oxides	periodia	variations	ao	. nervous system
	magnesium oxides	UF	periodicity		peripheral nervous system
	periclase	GS	variations	RT	neuromuscular transmission

			:- C!kk'		B. attached
•	∞ systems		infiltration		. Pershing missile
n a vin b	aval viaian		interstices		. surface to surface missiles
	eral vision		leaching		Pershing missile
GS	vision		leakage	RT	multistage rocket vehicles
	peripheral vision		mechanical properties		solid propellant rocket engines
RT			penetration	B	0.16
	visual acuity		percolation	Persian	
	visual fields		permeating	GS	gulfs
. ,		•	∞ physical properties		. Persian Gulf
periphe			porosity	RT	inlets (topography)
USE	boundaries	•	∞ resistance		
			seepage		al computers
perisco	•		surface properties	GS	data processing equipment
DEF	Optical instruments which displace the		void ratio		. computers
	sight parallel to itself to permit a view		voids		digital computers
	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	ality
			impregnating	RT	depersonalization
periton	eum		osmosis		personnel selection
. GS	anatomy		penetration		
	. peritoneum		percolation	persona	ality tests
	membranes			RT	intelligence tests
	. peritoneum		permeability		psychological tests
RT	abdomen		porosity .		psychometrics
пı	epithelium		reverse osmosis		qualifications
	•	•	∞ saturation		•
	tissues (biology)		sorption	•	• tests
	viscera		transpiration		
				person	
permaf	rost	permis	sivity	GS	personnel
DEF	Any soil, subsoil or other surficial de-	RT	compatibility		. air traffic controllers (personnel)
posit, c	or even bedrock, occurring in arctic or		psychological factors		. crews
subarct	ic regions at a variable depth beneath				flight crews
	th's surface in which a temperature be-	permit	tivitv		spacecrews
	ezing has existed continuously for a long	UF	dielectric constant		. enemy personnel
	sed for frozen soils.	GS	electrical properties		. engineers
UF		ao	. dielectric properties		. flying personnel
GS	soils				astronauts
as		DT	permittivity		orbital workers
ОТ	. permafrost	RT			cosmonauts
RT	aufeis (ice)		electric fields		flight crews
	Earth cryosphere		field strength		•
	planetary cryospheres				spacecrews
	polar regions		tations		pilots (personnel)
_		GS	analysis (mathematics)		aircraft pilots
Permal	lloys (trademark)		. combinatorial analysis		test pilots
GS	alloys		permutations		. ground crews
	. 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		•		surgeons
	magnets	perovs	kites		flight surgeons
	molybdenum alloys	DEF			. navigators
	nickel alloys		e general formula ABX3 where A and B		. operators (personnel)
	permanent magnets		tals and X is a nonmetal, usually O.		pilots (personnel)
	pormanoni magneto	GS			aircraft pilots
normar	nent magnets	ao	. perovskites		test pilots
GS	magnets		minerals		. military personnel
as	8		. perovskites		. police
рт	. permanent magnets				. programmers
RT	ferrimagnets		titanium compounds		
	ferromagnetic materials		. titanates	DT	. scientists
	magnetic materials		perovskites	HI °	o complement
	Permalloys (trademark)				consulting
		peroxi			crew experiment stations
	nganates	GS	chalcogenides		crew observation stations
GS	manganese compounds		. oxides		crew workstations
	. permanganates		anhydrides		depersonalization
RT	manganese ions		peroxides		deployment
			inorganic peroxides		employee relations
permea	ability		hydrogen peroxide	0	o estimators
SN	(EXCLUDES MAGNETIC PERMEABILITY)		organic peroxides		helmet mounted displays
DEF	Of a magnetic material, the ratio of the		potassium peroxides		human resources
magnet	tic induction to the magnetic field inten-		sodium peroxides		incentives
	the same region. The ability to permit	RT	dioxides		inhabitants
	tions or passage. In this sense the term				manpower
	ed particularly to substances which per-	Persei	d meteoroids		occupation
	etration or passage of fluids.	GS			organizing
GS	permeability	as	. meteoroid showers		position (title)
as					
D.T.	. dielectric permeability		Perseid meteoroids		qualifications
RT	aquifers		. meteoroids		research management
	density (mass/volume)		Perseid meteoroids		resources
	diffusion	_			retirement
	diffusivity		ng missile		retraining
	drainage	GS	missiles		services
	formations		. ballistic missiles		unionization

wage surveys		oscillators	RT ∞ rockets
neveened development		radiation pressure	Detri mete
personnel development RT ∞ development		Schach effect three body problem	Petri nets  DEF Abstract, formal models of the informa-
employee relations		two body problem	tion flow in systems with discrete sequential or
human resources		variations	parallel events. The major use has been the
management		variations	modeling of hardware systems and software
resources	norturk	action theory	concepts of computers.
training analysis	perturi UF	pation theory	GS models
•	GS	disturbance theory perturbation theory	. mathematical models
personnel management	ao	. vinti theory	Petri nets
GS management	RT	Boussinesq approximation	networks
. industrial management		celestial mechanics	. Petri nets
personnel management		disturbing functions	RT consecutive events
RT employee relations		Hansen lunar theory	dynamic models
human relations		Hartree approximation	graphs (charts)
human resources		Hill lunar theory	information theory
leadership		Hill method	∞ nets
management planning		many body problem	sequencing
personnel propulsion systems		operators (mathematics)	trees (mathematics)
USE self maneuvering units		orbit perturbation	petrogenesis
OOL Self maneuvering units		orbital elements	(added August 1997)
personnel selection		quantum theory	DEF Branch of petrology dealing with the
GS selection		strange attractors	origin and formation of rocks, particularly igne-
. personnel selection		Taylor instability	ous rocks.
pilot selection	•	∞ theories	UF petrogeny
RT aptitude		von Zeipel method	GS geology
employment		wave functions	. petrology
intelligence tests		Wentzel-Kramer-Brillouin method	petrogenesis
labor		Yang-Mills fields	RT geochronology
personality		Yang-Mills theory	igneous rocks
physical examinations	_		magma
physiological tests	Peru		meteorite parent bodies
	GS	nations	mineralogy
personnel subsystems	DT	. Peru	∞ origins
RT industries	RT	South America	petrography
B (I I			volcanology
Perspex (trademark)	pervea		
GS plastics . Perspex (trademark)		The quotient of the space-charge-	petrogeny
. Perspex (trademark)		cathode current by the three-halves	(added August 1997)
perspiration		of the anode voltage in a diode. Note:	USE petrogenesis
UF sweating		nce is the constant G appearing in the	notrography
RT body fluids		angmuir-Schottky equation.	petrography
body temperature	GS		GS geology
evaporation		perveance	. petrology
excretion	RI	Child-Langmuir law	<b>petrography</b> RT inliers (landforms)
feces		space charge	petrogenesis
heat acclimatization		thermionic diodes	rocks
humidity		vacuum tubes	sedimentary rocks
Palmar sweat index		work functions	siderophile elements
skin (anatomy)			oldoroprimo olorriorito
sweat	pestici		petroleum
transpiration	GS	poisons	USE crude oil
		. pesticides	
PERT		insecticides	petroleum products
UF program evaluation review technique		Carbamates (tradename)	DEF Materials derived from petroleum,
RT commerce		urethanes DDT	natural gas, and asphalt deposits. Includes
contract management		dieldrin	gasolines, diesel and heating fuels, lubricants,
critical path method		phenothiazines	waxes, greases, petroleum coke, petrochemi-
GERT	RT	crop dusting	cals, and sulfur.
management analysis		environmental chemistry	GS products
management methods		toxicology	. petroleum products
management planning		toxioology	asphalt
∞ paths	matala		diesel fuels
program trend line analysis	<b>petals</b> RT	plants (botany)	gasoline
project management	n i	piants (botany)	tars RT butanes
perturbation			crude oil
DEF Any departure introduced into an as-	petech		greases
sumed steady state of a system, or a small	GS	hemorrhages	kerogen
departure from a nominal path such as a desired	DT	. petechia	lubricants
trajectory. Usually used as equivalent to small	RT	skin (anatomy)	lubricating oils
perturbation. Specifically, a disturbance in the			methane
regular motion of a celestial body, the result of a	PETN		natural gas
force additional to that which causes the regular	UF	pentaerythritol tetranitrate	oils
motion, specifically a gravitational force.	GS	esters	plastics
GS perturbation		. organic nitrates	polynuclear organic compounds
. orbit perturbation		PETN	
satellite perturbation		nitrogen compounds	petrology
RT ∞ disturbances		. nitrates	DEF That branch of geology dealing with
four body problem		organic nitrates	the origin, occurrence, structure, and history of
geodesy	DT	PETN	rocks, especially igneous and metamorphic
gravitational instability	RT	explosives	rocks.
long term effects			GS geology
many body problem		sounding rocket	. petrology
nutation	GS	rocket vehicles	lithology
orbital mechanics		. sounding rockets	petrogenesis
oscillations		Petrel sounding rocket	petrography

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	vapor priases
	voicariology	waxes	nhasa arror
Pfaff ed	nuation		phase error
	analysis (mathematics)	working fluids	GS errors
ao	. Pfaff equation	phase coherence	. phase error
RT	differential equations	RT ∞ coherence	RT anisoplanatism
	o equations		circuit protection
		coherence coefficient	error signals
	thermodynamics	coherent light	
DEM (n	nodulation)	four-wave mixing	phase lock demodulators
•	· ·	wave fronts	GS demodulators
USE	pulse frequency modulation		. phase lock demodulators
рН		phase conjugation	RT correlation detection
RT	acid base equilibrium	DEF Technique for the removal of phase	parametrons
пі		distortions during propagation of laser beams	
	acid rain	through the atmosphere.	phase locked systems
	acidity	GS conjugation	RT feedback frequency modulation
	acidosis	. phase conjugation	optical coupling
	alkalinity	four-wave mixing	phase control
	alkalosis	-	phase detectors
	bases (chemical)	phase contrast	•
	buffers (chemistry)	GS contrast	synchronized oscillators
	hydrogen ions	. phase contrast	∞ systems
	-	RT diffraction patterns	tracking filters
pH fact	or	electron microscopy	
RT	acid base equilibrium		phase matching
	acidosis	microscopy	DEF A way of maximizing the coupling be
	alkalosis	optical measurement	tween two systems used in second harmonic
	hydrogen ions	optical paths	generation which happens mostly in crystals.
	ion concentration	scanning electron microscopy	RT crystal optics
		transmission electron microscopy	crystals
	soil sampling		frequency multipliers
Dhooth	an (hunathatical planet)	phase control	harmonic generations
	on (hypothetical planet)	RT circuit protection	laser outputs
	ed June 1998)	∞ control	•
USE	hypothetical planets	phase locked systems	lasers
		transformers	
phanta			phase modulation
GS	circuits	phase demodulators	DEF Angle modulation in which the angle o
	. delay circuits	GS demodulators	a sine wave carrier is caused to depart from the
	phantastrons	. phase demodulators	carrier angle by an amount proportional to the
	oscillators		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		modulation.
	Toodback amplificio	phase detectors	
Phantoi	m aircraft	DEF Devices that continuously compare the	GS coding
	F-4 aircraft	phase of two signals and provide an output	. signal encoding
USL	r-4 all clait	proportional to their difference in phase.	phase modulation
pharma	ocology	GS circuits	FM/PM (modulation)
		. phase detectors	phase shift keying
GS	medical science	synchroscopes	binary phase shift keying
	. pharmacology	RT ∞ detectors	quadrature phase shift keying
	psychopharmacology	phase locked systems	modulation
RT			modulation
	anesthesiology	'	. phase modulation
	antiradiation drugs	signal detection	. phase modulation
	antiradiation drugs bioavailability	'	<ul><li>phase modulation</li><li>. FM/PM (modulation)</li></ul>
	antiradiation drugs	signal detection synchronism	. phase modulation FM/PM (modulation) phase shift keying
	antiradiation drugs bioavailability	signal detection synchronism	<ul> <li>phase modulation</li> <li>FM/PM (modulation)</li> <li>phase shift keying</li> <li>binary phase shift keying</li> </ul>
	antiradiation drugs bioavailability bioprocessing	signal detection synchronism  phase deviation  DEF The peak difference between the in-	<ul> <li>phase modulation</li> <li>FM/PM (modulation)</li> <li>phase shift keying</li> <li>binary phase shift keying</li> <li>quadrature phase shift keying</li> </ul>
۰	antiradiation drugs bioavailability bioprocessing cyclic AMP drugs	signal detection synchronism  phase deviation DEF The peak difference between the instantaneous phase of the modulated wave and	phase modulation     FM/PM (modulation)     phase shift keying     binary phase shift keying     quadrature phase shift keying  amplitude modulation
o	antiradiation drugs bioavailability bioprocessing cyclic AMP drugs • medicine	signal detection synchronism  phase deviation DEF The peak difference between the instantaneous phase of the modulated wave and the carrier frequency.	. phase modulation FM/PM (modulation) phase shift keying binary phase shift keying quadrature phase shift keying RT amplitude modulation Bragg cells
0	antiradiation drugs bioavailability bioprocessing cyclic AMP drugs medicine motion sickness drugs	signal detection synchronism  phase deviation DEF The peak difference between the instantaneous phase of the modulated wave and	. phase modulation FM/PM (modulation) phase shift keying binary phase shift keying quadrature phase shift keying Bragg cells deformable mirrors
c	antiradiation drugs bioavailability bioprocessing cyclic AMP drugs medicine motion sickness drugs vasoconstrictor drugs	signal detection synchronism  phase deviation DEF The peak difference between the instantaneous phase of the modulated wave and the carrier frequency.	. phase modulation FM/PM (modulation) phase shift keying binary phase shift keying quadrature phase shift keying amplitude modulation Bragg cells deformable mirrors demodulation
c	antiradiation drugs bioavailability bioprocessing cyclic AMP drugs medicine motion sickness drugs	signal detection synchronism  phase deviation DEF The peak difference between the instantaneous phase of the modulated wave and the carrier frequency. RT amplitudes	phase modulation FM/PM (modulation) phase shift keying public shif
	antiradiation drugs bioavailability bioprocessing cyclic AMP drugs medicine motion sickness drugs vasoconstrictor drugs veterinary medicine	signal detection synchronism  phase deviation DEF The peak difference between the instantaneous phase of the modulated wave and the carrier frequency. RT amplitudes modulated continuous radiation	. phase modulation FM/PM (modulation) phase shift keying binary phase shift keying quadrature phase shift keying amplitude modulation Bragg cells deformable mirrors demodulation
pharyn	antiradiation drugs bioavailability bioprocessing cyclic AMP drugs medicine motion sickness drugs vasoconstrictor drugs veterinary medicine	signal detection synchronism  phase deviation DEF The peak difference between the instantaneous phase of the modulated wave and the carrier frequency. RT amplitudes modulated continuous radiation signal analysis	phase modulation FM/PM (modulation) phase shift keying public shif
	antiradiation drugs bioavailability bioprocessing cyclic AMP drugs medicine motion sickness drugs vasoconstrictor drugs veterinary medicine  x anatomy	signal detection synchronism  phase deviation  DEF The peak difference between the instantaneous phase of the modulated wave and the carrier frequency.  RT amplitudes modulated continuous radiation signal analysis  phase diagrams	. phase modulation . FM/PM (modulation) . phase shift keying binary phase shift keying quadrature phase shift keying RT amplitude modulation Bragg cells deformable mirrors demodulation demodulatiors frequency modulation
pharyn	antiradiation drugs bioavailability bioprocessing cyclic AMP drugs medicine motion sickness drugs vasoconstrictor drugs veterinary medicine  x anatomy . respiratory system	signal detection synchronism  phase deviation  DEF The peak difference between the instantaneous phase of the modulated wave and the carrier frequency.  RT amplitudes modulated continuous radiation signal analysis  phase diagrams  UF constitutional diagrams	. phase modulation . FM/PM (modulation) . phase shift keying binary phase shift keying quadrature phase shift keying amplitude modulation Bragg cells deformable mirrors demodulation demodulators frequency modulation modems modulators
pharyn	antiradiation drugs bioavailability bioprocessing cyclic AMP drugs medicine motion sickness drugs vasoconstrictor drugs veterinary medicine  x anatomy	signal detection synchronism  phase deviation DEF The peak difference between the instantaneous phase of the modulated wave and the carrier frequency. RT amplitudes modulated continuous radiation signal analysis  phase diagrams UF constitutional diagrams equilibrium diagrams	. phase modulation . FM/PM (modulation) . phase shift keying . binary phase shift keying . quadrature phase shift keying amplitude modulation Bragg cells deformable mirrors demodulation demodulators frequency modulation modems modulators parametric frequency converters
pharyn GS	antiradiation drugs bioavailability bioprocessing cyclic AMP drugs medicine motion sickness drugs vasoconstrictor drugs veterinary medicine  x anatomy respiratory systempharynx	signal detection synchronism  phase deviation DEF The peak difference between the instantaneous phase of the modulated wave and the carrier frequency. RT amplitudes modulated continuous radiation signal analysis  phase diagrams UF constitutional diagrams equilibrium diagrams eutectic diagrams eutectic diagrams	. phase modulation . FM/PM (modulation) . phase shift keying binary phase shift keying quadrature phase shift keying amplitude modulation Bragg cells deformable mirrors demodulation demodulators frequency modulation modems modulators parametric frequency converters pulse modulation
pharyn GS	antiradiation drugs bioavailability bioprocessing cyclic AMP drugs medicine motion sickness drugs vasoconstrictor drugs veterinary medicine  x anatomy . respiratory system pharynx angle	signal detection synchronism  phase deviation DEF The peak difference between the instantaneous phase of the modulated wave and the carrier frequency. RT amplitudes modulated continuous radiation signal analysis  phase diagrams UF constitutional diagrams equilibrium diagrams eutectic diagrams eutectic diagrams diagrams diagrams diagrams diagrams eutectic diagrams diagrams diagrams	. phase modulation . FM/PM (modulation) . phase shift keying binary phase shift keying quadrature phase shift keying amplitude modulation Bragg cells deformable mirrors demodulation demodulation frequency modulation modems modulators parametric frequency converters pulse modulation push-pull amplifiers
pharyn GS	antiradiation drugs bioavailability bioprocessing cyclic AMP drugs medicine motion sickness drugs vasoconstrictor drugs veterinary medicine  x anatomy respiratory systempharynx	signal detection synchronism  phase deviation  DEF The peak difference between the instantaneous phase of the modulated wave and the carrier frequency.  RT amplitudes modulated continuous radiation signal analysis  phase diagrams  UF constitutional diagrams equilibrium diagrams eutectic diagrams of diagrams synchronisms eutectic diagrams phase diagrams phase diagrams phase diagrams	. phase modulation . FM/PM (modulation) . phase shift keying binary phase shift keying quadrature phase shift keying amplitude modulation Bragg cells deformable mirrors demodulation demodulators frequency modulation modems modulators parametric frequency converters pulse modulation
pharyn GS phase a USE	antiradiation drugs bioavailability bioprocessing cyclic AMP drugs medicine motion sickness drugs vasoconstrictor drugs veterinary medicine  x anatomy . respiratory system pharynx angle phase shift	signal detection synchronism  phase deviation  DEF The peak difference between the instantaneous phase of the modulated wave and the carrier frequency.  RT amplitudes modulated continuous radiation signal analysis  phase diagrams  UF constitutional diagrams equilibrium diagrams equilibrium diagrams eutectic diagrams diagrams . phase diagrams  RT alloys	. phase modulation . FM/PM (modulation) . phase shift keying binary phase shift keying quadrature phase shift keying amplitude modulation Bragg cells deformable mirrors demodulation demodulators frequency modulation modems modulators parametric frequency converters pulse modulation push-pull amplifiers trellis coding
pharyn GS phase a USE	antiradiation drugs bioavailability bioprocessing cyclic AMP drugs medicine motion sickness drugs vasoconstrictor drugs veterinary medicine  x anatomy respiratory system phase shift change materials	signal detection synchronism  phase deviation DEF The peak difference between the instantaneous phase of the modulated wave and the carrier frequency. RT amplitudes modulated continuous radiation signal analysis  phase diagrams UF constitutional diagrams equilibrium diagrams eutectic diagrams GS diagrams phase diagrams phase diagrams space diagrams space diagrams I phase diagrams space diagrams space diagrams cutectic diagrams multiplication signal detection synchronism	. phase modulation . FM/PM (modulation) . phase shift keying . binary phase shift keying . quadrature phase shift keying amplitude modulation Bragg cells deformable mirrors demodulation demodulators frequency modulation modems modulators parametric frequency converters pulse modulation push-pull amplifiers trellis coding
pharyn GS phase a USE	antiradiation drugs bioavailability bioprocessing cyclic AMP drugs medicine motion sickness drugs vasoconstrictor drugs veterinary medicine  x anatomy . respiratory system pharynx angle phase shift	signal detection synchronism  phase deviation  DEF The peak difference between the instantaneous phase of the modulated wave and the carrier frequency.  RT amplitudes modulated continuous radiation signal analysis  phase diagrams  UF constitutional diagrams equilibrium diagrams equilibrium diagrams eutectic diagrams diagrams . phase diagrams  RT alloys	. phase modulation . FM/PM (modulation) . phase shift keying binary phase shift keying quadrature phase shift keying amplitude modulation Bragg cells deformable mirrors demodulation demodulators frequency modulation modems modulators parametric frequency converters pulse modulation push-pull amplifiers trellis coding  phase response USE frequency response
pharyn GS phase a USE phase o	antiradiation drugs bioavailability bioprocessing cyclic AMP drugs medicine motion sickness drugs vasoconstrictor drugs veterinary medicine  x anatomy respiratory systempharynx angle phase shift change materials	signal detection synchronism  phase deviation DEF The peak difference between the instantaneous phase of the modulated wave and the carrier frequency. RT amplitudes modulated continuous radiation signal analysis  phase diagrams UF constitutional diagrams equilibrium diagrams eutectic diagrams GS diagrams phase diagrams phase diagrams spacediagrams spacediagrams I phase diagrams phase diagrams spacediagrams I phase diagrams spacediagrams multiplication systems (materials)	. phase modulation . FM/PM (modulation) . phase shift keying . binary phase shift keying . quadrature phase shift keying amplitude modulation Bragg cells deformable mirrors demodulation demodulators frequency modulation modems modulators parametric frequency converters pulse modulation push-pull amplifiers trellis coding
pharyn GS phase a USE phase o DEF phase t	antiradiation drugs bioavailability bioprocessing cyclic AMP drugs  medicine motion sickness drugs vasoconstrictor drugs veterinary medicine  x anatomy . respiratory system . pharynx angle phase shift change materials Materials undergoing solid/liquid transformations and whose latent heat of	signal detection synchronism  phase deviation DEF The peak difference between the instantaneous phase of the modulated wave and the carrier frequency. RT amplitudes modulated continuous radiation signal analysis  phase diagrams UF constitutional diagrams equilibrium diagrams eutectic diagrams utectic diagrams substantial diagrams eutectic diagrams alloys binary systems (materials) cluster variation method	. phase modulation . FM/PM (modulation) . phase shift keying binary phase shift keying quadrature phase shift keying amplitude modulation Bragg cells deformable mirrors demodulation demodulators frequency modulation modems modulators parametric frequency converters pulse modulation push-pull amplifiers trellis coding  phase response USE frequency response
pharyn GS phase a USE phase t fusion p	antiradiation drugs bioavailability bioprocessing cyclic AMP drugs medicine motion sickness drugs vasoconstrictor drugs veterinary medicine  x anatomy respiratory system phase shift change materials Materials undergoing solid/liquid ransformations and whose latent heat of properties are used to store and deliver	signal detection synchronism  phase deviation  DEF The peak difference between the instantaneous phase of the modulated wave and the carrier frequency.  RT amplitudes modulated continuous radiation signal analysis  phase diagrams  UF constitutional diagrams equilibrium diagrams equilibrium diagrams eutectic diagrams SG diagrams . phase diagrams RT alloys binary systems (materials) cluster variation method critical temperature eutectics	. phase modulation . FM/PM (modulation) . phase shift keying binary phase shift keying quadrature phase shift keying amplitude modulation Bragg cells deformable mirrors demodulation demodulation demodulators frequency modulation modems modulators parametric frequency converters pulse modulation push-pull amplifiers trellis coding  phase response USE frequency response phase shift
pharyn GS phase a USE phase o per phase t fusion p	antiradiation drugs bioavailability bioprocessing cyclic AMP drugs medicine motion sickness drugs vasoconstrictor drugs veterinary medicine  x  anatomy . respiratory system pharynx angle phase shift change materials Materials undergoing solid/liquid ransformations and whose latent heat of properties are used to store and deliver energy, usually solar energy. Used for	signal detection synchronism  phase deviation DEF The peak difference between the instantaneous phase of the modulated wave and the carrier frequency. RT amplitudes modulated continuous radiation signal analysis  phase diagrams UF constitutional diagrams equilibrium diagrams equilibrium diagrams eutectic diagrams GS diagrams . phase diagrams RT alloys binary systems (materials) cluster variation method critical temperature eutectics heat of fusion	phase modulation FM/PM (modulation) phase shift keying amplitude modulation graph cells deformable mirrors demodulation demodulators frequency modulation modems modulators parametric frequency converters pulse modulation push-pull amplifiers trellis coding  phase response USE frequency response phase shift
phase a USE  phase t fusion p thermal PCM (n	antiradiation drugs bioavailability bioprocessing cyclic AMP drugs medicine motion sickness drugs vasoconstrictor drugs veterinary medicine  x anatomy respiratory system phase shift change materials Materials undergoing solid/liquid ransformations and whose latent heat of properties are used to store and deliver energy, usually solar energy. Used for naterials).	signal detection synchronism  phase deviation DEF The peak difference between the instantaneous phase of the modulated wave and the carrier frequency. RT amplitudes modulated continuous radiation signal analysis  phase diagrams UF constitutional diagrams equilibrium diagrams eutectic diagrams GS diagrams . phase diagrams RT alloys binary systems (materials) cluster variation method critical temperature eutectics heat of fusion heat treatment	. phase modulation . FM/PM (modulation) . phase shift keying binary phase shift keying quadrature phase shift keying amplitude modulation Bragg cells deformable mirrors demodulation demodulators frequency modulation modems modulators parametric frequency converters pulse modulation push-pull amplifiers trellis coding  phase response USE frequency response phase shift  phase rule GS rules
phase a USE  phase a DEF phase to fusion per thermal PCM (number of the per th	antiradiation drugs bioavailability bioprocessing cyclic AMP drugs medicine motion sickness drugs vasoconstrictor drugs veterinary medicine   x anatomy . respiratory system pharynx angle phase shift  change materials Materials undergoing solid/liquid ransformations and whose latent heat of properties are used to store and deliver energy, usually solar energy. Used for naterials).  PCM (materials)	signal detection synchronism  phase deviation DEF The peak difference between the instantaneous phase of the modulated wave and the carrier frequency. RT amplitudes modulated continuous radiation signal analysis  phase diagrams UF constitutional diagrams equilibrium diagrams equilibrium diagrams of diagrams IT alloys binary systems (materials) cluster variation method critical temperature eutectics heat of fusion heat treatment intermetallics	. phase modulation . FM/PM (modulation) . phase shift keying binary phase shift keying quadrature phase shift keying maplitude modulation Bragg cells deformable mirrors demodulation demodulators frequency modulation modems modulators parametric frequency converters pulse modulation push-pull amplifiers trellis coding  phase response USE frequency response phase shift  phase rule GS rules . phase rule
phase a USE  phase t fusion p thermal PCM (n	antiradiation drugs bioavailability bioprocessing cyclic AMP drugs medicine motion sickness drugs vasoconstrictor drugs veterinary medicine  x anatomy respiratory system phase shift change materials Materials undergoing solid/liquid ransformations and whose latent heat of properties are used to store and deliver energy, usually solar energy. Used for naterials).	signal detection synchronism  phase deviation DEF The peak difference between the instantaneous phase of the modulated wave and the carrier frequency. RT amplitudes modulated continuous radiation signal analysis  phase diagrams UF constitutional diagrams equilibrium diagrams eutectic diagrams GS diagrams . phase diagrams RT alloys binary systems (materials) cluster variation method critical temperature eutectics heat of fusion heat treatment	. phase modulation . FM/PM (modulation) . phase shift keying binary phase shift keying quadrature phase shift keying amplitude modulation Bragg cells deformable mirrors demodulation demodulators frequency modulation modems modulators parametric frequency converters pulse modulation push-pull amplifiers trellis coding  phase response USE frequency response phase shift  phase rule GS rules

∞ Gibbs equations . . coal liquefaction vapor phases martensitic transformation phase separation (materials) . melting phase-space integral . . arc melting (added December 1988) analysis (mathematics) binary systems (materials) . . fusion (melting) . phase-space integral 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 ∞ separation . . . film boiling phenacetin solid phases nucleate boiling USE acetanilide . . . Leidenfrost phenomenon solubility . . evaporation phenanthrene phase shift . . . evapotranspiration GS organic compounds DEF 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 phase shift GS crystallization sedatives Sagnac effect directional solidification (crystals) angles (geometry) electron-hole drops phenol formaldehyde equalizers (circuits) ferroelasticity formaldehyde microwave switching heat of fusion phenolic résins ∞ 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 syntectic alloys . . . . phenolic epoxy resins
RT adhesives . 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 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 biologi-. phase stability (materials) arrays GS cal phenomena. crystallization phased arrays ŔТ 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)

phase transformations

solid phases

terminator lines

. . . bisphenols

. . . phloroglucinol

... cresols

. . . thymol

. freezing

. liquefaction

. . vibrational freezing

. zone melting

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

### phenvis

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 philosophy

paradoxes knowledge literature

> ∞ logic mathematical logic

### phloroglucinol

hydroxyl compounds

. alcohols

. . phenols

. phloroglucinol

chemical indicators

resins

### phobias

phobias GS

. fear

. fear of flying

anxiety emotional factors

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.

GS interplanetary spacecraft

. Mars probes

. 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.

celestial bodies

. natural satellites

. . Saturn satellites

. Phoebe Saturn (planet)

RT

# Phoebus nuclear reactor

nuclear reactors

Phoebus nuclear reactor

KIWI reactors

nuclear engine for rocket vehicles nuclear rocket engines

# Phoenix (AZ)

Phoenix (AZ)

### **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

. 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

languages linguistics

phonemics phonetics psycholinguistics

speech recognition words (language)

### phonemics

linguistics GS

phonemics intelligibility

languages phonemes

phonetics psycholinguistics speech

speech defects speech recognition

# words (language) phonetics

GS

linguistics 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 electrocardiography

heart diseases

phonoarteriography

vectorcardiography

# phonon beams

beams (radiation)

heart

. phonon beams

elastic waves . phosphoric acid Skydrol (trademark) . 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 me-. phonon beams two substituents on each phosphorus atom. 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 hydrogen oxygen fuel cells regenerative fuel cells . phonons phosphene . phonon beams 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 zinc sulfide, which emit light when excited by radiation, as on the scope of a cathode ray tube. plasmons . phosphates polarons phosphene sound waves phosphors luminosity GS . radiophosphors fluorescence Umklapp process phenyls RT 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 . . phosgene . . isotopes poisons phosphines ... phosphorus isotopes phosgene phosphazene .... phosphorus 32 RT ∞ chemical compounds . . . radioactive isotopes phosphonitriles .... phosphorus 32 nitrogen compounds
. nitriles phosphatases . phosphorus (added August 2004) . . phosphorus isotopes . . phosphonitriles organic compounds A group of hydrolases which catalyze ... phosphorus 32 the hydrolysis of monophosphoric esters and . nitriles the transfer of phosphate groups. phosphorus compounds . phosphonitriles GS biopolymers phosphorus compounds organic phosphorus compounds . proteins . diethyl hydrogen phosphite (DEHP) . phosphonitriles organic phosphorus compounds
organic phosphorus compounds
organic phosphazene . . enzymes phosphorus compounds . . phosphatases organic phosphorus compounds organic compounds . phosphonitriles phosphene . proteins . . phosphonitriles RT phosphazene . . enzymes . uridylic acid phosphatases phosphonium compounds . phosphates RT catalytic activity GS phosphorus compounds . . adenines enzymology phosphonium compounds adenosine triphosphate esters RT ∞ 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 . . diphosphates . . uridylic acid . . phosphorescence . adenosine diphosphate afterglows . phosphides bioluminescence . . adenosine monophosphate . . boron phosphides indium phosphates chemiluminescence . . gallium phosphides . . monazite sands .. indium phosphides phosphors phosphene plasma radiation ... manganese phosphides . . polynucleotides scintillation . . schreibersite potassium phosphates . phosphines trapping . . pyridine nucleotides . phosphonium compounds phosphoric acid . uridylic acid phosphoric acid phosphorus oxidesphosphorus polymers kreep GS acids

phosphoric acid

phosphorus compounds

RT ∞ chemical compounds

phosphatases

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

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 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.

GS 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

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

# 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

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

USE photoelectromagnetic effects radiation measuring instruments

### photoelectromagnetic effects

UF 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

photoexcitation (added December 1992)

printing

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 . photomicrographs photometers 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 optical filters . photogoniometers optical measuring instruments phosphors . photogoniometers photographs pixels optical equipment photography representations . optical measuring instruments polymeric films spatial filtering . photogoniometers . Sabatier reaction video tapes angles (geometry) visual aids diffractometers photographic measurement xerography etalons photographic measurement photogrammetry interferometers 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 measurements by means of photography. Used ĞS imagery for photoclinometry. photography photointerpretation . photography . . aerial photography photoclinometry photographic measurement
. photogrammetry
aerial photography
digital cameras . . all sky photography GS photometry . . astronomical photography photoreconnaissance autoradiography spectrometers black and white photography photographic plates mapping photogeology . . chronophotography glass . . cinematography cloud photography photoreconnaissance photographic processing color photography photographs photography projectors electron photography relief maps electro-optical photography ∞ plates stereophotography . . fractography surveys photographic processing . . frame photography terrain analysis .. high speed photography RT darkrooms photographic plates photographs . . holography photograph interpretation ... acoustical holography USE photointerpretation . . . microwave holography photography 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 . metric priotography
. microwave photography
. multispectral 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 GS mixtures . . orthophotography . dispersions photographic recording . . photomicrography . . emulsions . . rocket-borne photography ... photographic emulsions GS recording . . shadowgraph photography . . . Schlieren photography photographic recording . nuclear emulsions data recording . solutions . . photographic emulsions high speed photography . . spaceborne photography . nuclear emulsions hologrammetry . . . satellite-borne photography 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 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 . . pinhole cameras HS-801 aircraft photography Schmidt cameras satellite tracking ice mapping imaging techniques lunar photographs mapping Mars photographs space detection and tracking system . . streak cameras photographs photographs
. cloud photographs
. lunar photographs
. Mars photographs
. microphotographs microphotographs
multispectral band cameras lenses multispectral band scanners optical equipment optical filters panoramic cameras

. motion pictures

photography

photographic developers

### photointerpretation

photographic emulsions printed circuits fluorescence photographic equipment laser induced fluorescence . solid state devices photographic film photoexcitation substrates photographic measurement photoluminescent bands wafers photographic plates photorefractivity photographic processing photomechanical effect porous silicon photographic processing equipment RT ∞ effects photographic recording photoluminescent bands lithography photographic rectifiers GS spectra micromachining photographic tracking photoengraving . spectral bands . photoluminescent bands photography photographs photointerpretation printing absorption spectra photolithography ∞ bands photometers photomapping emission spectra photomaps photoluminescence photomasks triboluminescence photomechanical effect microphotometers photolysis UF photoreconnaissance photodetectors chemical reactions pinhole cameras . photochemical reactions measuring instruments pixels . optical measuring instruments projectors photolysis . . photometers decomposition radiography rapid ballistics identification photolysis ... electrophotometers ... ultraviolet spectrometers radiation chemistry reproduction (copying) photolysis .... high dispersion spectrographs timber inventory cracking (chemical engineering) . . . . Total Ozone Mapping video tapes electrolysis Spectrometer wave front reconstruction photodecomposition ... quantum well infrared xerography photodetectors photodissociation photointerpretation ... ultraviolet spectrophotometers radiolysis photograph interpretation aerial photography ∞ analyzing . radiation measuring instruments photomagnetic effects . . photometers RT deuterons ... electrophotometers . . . ultraviolet spectrometers change detection  $\infty$  effects . . . high dispersion spectrographs ground truth gamma rays photoelectrons . . . . Total Ozone Mapping  $\infty$  interpretation Spectrometer photographic measurement spin decoupling . . . quantum well infrared photography photodetectors photomapping photomapping . . . ultraviolet spectrophotometers optical equipment photoreconnaissance GS mapping mapping
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 . . . . high dispersion spectrographs . . . . Total Ozone Mapping by the collision of a high energy photon with the Earth resources geodesy particle. Spectrometer . . . quantum well infrared emission geology photoionization gnomonic projection ionization hologrammetry photodetectors . 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 The process of making a printing plate photomaps pyranometers aerial photography radiometers photography reflectometers relief maps spectrometers printing satellite-borne photography spectrophotometers telephotometry . lithography spaceborne photography photolithography transmissometers thematic mapping microelectronics ultraviolet detectors photomasks x ray detectors

# photolithography

RT

GS

by exposing a design photographically on a sensitized emulsion and removing unwanted portions chemically.

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

. . luminescence

... photoluminescence

. . . triboluminescence . . . x ray fluorescence

RT blue shift

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. Used for microphotometers and photodetectors.

### 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 photonuclear reactions photons colorimetry reflected waves photoproduction illuminating refracted waves Plancks constant ∞ illumination thermal blooming quantum theory light (visible radiation) ∞ radiation luminance photon density rotons 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 . photography particles . 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 amplitude distribution analysis microstructure 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 GS cycles ... laser propulsion . . . 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 light (visible radiation) photonic switching . . . . frequency modulation USE optical switching photomultipliers melatonin cathodes photonics channel multipliers photophilic plants electro-optics plants (botany) RT dynodes photophilic plants fiber optics 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 collection of very fine particles, suspended in a gas or falling in a vacuum, by a powerful beam of optical switching photoelectric cells scintillating fibers optical waveguides optoelectronic devices scintillation counters RT secondary emission photons aerosols light (visible radiation) photon absorptiometry photons particle interactions particle motion DEF According to the quantum theory of density measurement radiation, the elementary quantities of radiant photon absorptiometry 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 processes. 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 electromagnetic interactions gamma rays
light (visible radiation) light beams photoproduction particle production optical paths nuclear radiation photoproduction optical scanners optical properties electromagnetic absorption

photon beams

photonics

phonon beams

photonic propulsion

photoelectrochemical devices

pair production

photons

photonuclear reactions photoacoustic spectroscopy visual pigments radioactive decay thermal diffusivity vector dominance model photosensors thermal lensing USE photoelectricity radiation measuring instruments photother motrop 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 RT 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 photosynthesis. crystal optics gratings (spectra) GS electromagnetic radiation optical waveguides photosynthetically active photoelectric cells photoluminescence radiation photoelectric materials crop growth phototransistors insolation photoresistivity irradiance USE photoconductivity photoviscoelasticity electromagnetic properties optical properties leaf area index photosynthesis photoresistors photoviscoelasticity ∞ 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 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 ∞ 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 phototropism light (visible radiation) ... photovoltaic cells photothermal deflection spectroscopy photographic emulsions (added November 1998) . . . solar cells photophilic plants PDS (spectroscopy) ... vertical junction solar cells electronic equipment solid state devices spectroscopy
. photothermal deflection photoreceptors GS photoresists . . semiconductor devices spectroscopy sensitometry

optical measurement

... photovoltaic cells

RT

thresholds (perception)

solar cells	RT aerothermochemistry	fusibility
vertical junction solar cells	atmospheric chemistry	∞ 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	internal friction
•	nuclear chemistry ∞ physics	isotropy
∞ cells electrochemical cells	thermochemistry	magnetic dipoles magnetic properties
photoconductive cells	thermodynamics	mechanical properties
photoelectric materials	thermodynamics	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
-		∞ properties
photovoltaic conversion	physical endurance	surface properties
GS energy conversion	USE physical fitness	thermal expansion
. solar energy conversion	physical examinations	thermodynamic properties
photovoltaic conversion	RT flight fitness	thixotropy
thermophotovoltaic conversion	mobile quarantine facility	transmissivity
RT ∞ conversion	percussion	transport properties
photovoltaic effect	personnel selection	virtual properties
solar arrays solar cells	<b>,</b>	viscosity
Solal Cells	physical exercise	∞ physical sciences
photovoltaic effect	UF 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-	GS physical exercise	LISTED BELOW)
tion of photon energy. The voltage difference is	. hyperkinesia	RT astronomy
caused by the internal drift of holes and elec-	RT angina pectoris	∞ chemistry
trons.	athletes	geology life sciences
GS electrical properties	atrophy	∞ metallurgy
. photovoltaic effect	exercise physiology	meteorology
photoelectricity	fatigue (biology) hypokinesia	mineralogy
. photoelectric effect	physical fitness	oceanography
photovoltaic effect	running	∞ physics
RT ∞ effects	swimming	∞ science
photoelectric emission	treadmills	
photoelectrons	walking	physical work
photovoltages photovoltaic conversion	ŭ	UF exertion
threshold voltage	physical factors	GS work
tilleshold voltage	GS physiological factors	. physical work
phreatophytes	. physical factors	RT effort
GS plants (botany)	RT ∞ physics	horsepower
phreatophytes	work	tasks
RT trees (plants)	the street energy	treadmills
,	physical fitness	workloads (nsychophysiology)
phthalates	UF physical endurance	workloads (psychophysiology)
GS esters	GS fitness . physical fitness	physicians
. phthalates	RT athletes	GS personnel
A DESCRIPTION OF THE PROPERTY	competition	. medical personnel
phthalimides	exercise physiology	physicians
(added August 2004)	flight fitness	RT stethoscopes
DEF The imide of phthalic acids. GS nitrogen compounds	physical exercise	·
GS nitrogen compounds . imides	physiological tests	∞ physics
phthalimides	posture	SN (USE OF A MORE SPECIFIC TERM IS
RT amides	sports medicine	RECOMMENDEDCONSULT THE TERM: LISTED BELOW)
TT dillidoo	swimming	RT astrophysics
phthalocyanin	treadmills	atmospheric physics
GS organic compounds	work capacity	atomic physics
. cyclic compounds		biophysics
heterocyclic compounds	physical optics	branching (physics)
phthalocyanin	RT crystal optics	charm (particle physics)
RT pigments	fiber optics	cloud physics
	geometrical optics gradient index optics	combustion
phugoid oscillations	optical properties	combustion physics
USE oscillations	∞ optics	condensed matter physics
pitch (inclination)	quantum optics	degenerate matter
abulla suis sa s	quantum theory	electrophysics
phylloquinone	∞ theories	field theory (physics)
UF <i>vitamin K</i> GS organic compounds		flavor (particle physics) geophysics
. cyclic compounds	physical properties	health physics
heterocyclic compounds	SN (USE OF A MORE SPECIFIC TERM IS	Health Physics Research Reactor
phylloquinone	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)	kinetics
. lipids	RT acoustic properties	low temperature physics
phylloquinone	adsorptivity	magnetomechanics (physics)
vitamins	Bragg angle	matter (physics)
. phylloquinone	buoyancy	∞ molecular physics
RT osteocalcin	chemical properties	neutron physics
	color	nuclear physics
physical chemistry	density (mass/volume)	nuclei (nuclear physics)
DEF The application of the laws, principles,	diffusivity	physical chemistry
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	plasma physics
on (ochomictr)		
. cryochemistry . quantum chemistry	electrical properties electromagnetic properties	plasmas (physics) polymer physics

# Physics and Chemistry Experiment in Space

psychophysics	exercise physiology	catabolism
quenching (atomic physics)	fluid shifts (biology)	cytogenesis
radio physics	geotropism	differentiation (biology)
reactor physics	gonads	digesting
reentry physics	gravitational physiology	heart function
rigid rotors (plasma physics)	head down tilt	hemodynamics
∞ science	heat acclimatization	homeostasis
selection rules (nuclear physics)	heat stroke	menstruation
solar physics	hematopoiesis	metabolism
∞ solid state physics	hematopoietic system	mitosis
strange attractors	human reactions	narcosis
theoretical physics	noise pollution	physiochemistry
, , , , , , , , , , , , , , , , , , ,	radiation effects	regeneration (physiology)
Physics and Chemistry Experiment in	reaction time	regularity
Space	relative biological effectiveness (RBE)	respiration
DEF A group of Space Shuttle payloads	shock (physiology)	∞ science
consisting of various space experiments. Used	space adaptation syndrome	shock (physiology)
for PACE.	sports medicine	stress (physiology)
UF PACE	opone modismo	thermoregulation
GS experimentation	physiological factors	tolerances (physiology)
. Physics and Chemistry	GS physiological factors	tererandes (prijereregy)
Experiment in Space	. physical factors	phytochrome
payloads	RT astronaut performance	(added August 2004)
. Space Shuttle payloads	chemical defense	DEF A blue-green biliprotein widely used in
Physics and Chemistry	chemical warfare	the plant kingdom.
Experiment in Space	flight stress (biology)	GS biopolymers
spaceborne experiments	noise pollution	. proteins
. Physics and Chemistry	sex factor	. phytochrome
	SEX TACIOI	
Experiment in Space	physiological responses	organic compounds
RT ∞ chemistry	GS physiological effects	. proteins
space flight	1 , 0	phytochrome
	physiological responses	pigments
physiochemistry	hemodynamic responses	. phytochrome
GS biochemistry	responses	RT photosynthesis
. physiochemistry	physiological responses	plant physiology
RT bioavailability	hemodynamic responses	plants (botany)
∞ chemistry	RT baroreflexes	vegetation growth
exercise physiology	desynchronization (biology)	
molecular biology	evoked response (psychophysiology)	phytoplankton
organic chemistry	gravitational physiology	DEF The aggregate of passively floating or
physiology	head up tilt	drifting plant organisms in aquatic ecosystems.
psychotropic drugs	pathological effects	GS plankton
∞ science	tilt-table test	. phytoplankton
55.51.55	zeitgebers	plants (botany)
physiography	2011900010	
	nhysiological telemetry	. aquatic plants
USE geomorphology	physiological telemetry	phytoplankton
USE geomorphology	physiological telemetry USE biotelemetry	<b>phytoplankton</b> RT algae
USE geomorphology physiologic availability	ÚSE <b>biotelemetrý</b>	phytoplankton RT algae dissolved organic matter
USE geomorphology  physiologic availability (added August 2001)	ÚSE biotelemetrý  physiological tests	phytoplankton RT algae dissolved organic matter marine biology
USE geomorphology physiologic availability	ÚSE biotelemetrý  physiological tests  GS physiological tests	phytoplankton RT algae dissolved organic matter marine biology Sea-viewing Wide Field-of-view
USE geomorphology  physiologic availability (added August 2001) USE bioavailability	ÚSE biotelemetrý  physiological tests  GS physiological tests  body sway test	phytoplankton RT algae dissolved organic matter marine biology Sea-viewing Wide Field-of-view Sensor
USE geomorphology  physiologic availability (added August 2001) USE bioavailability  physiological acceleration	ÚSE biotelemetrý  physiological tests GS physiological tests . body sway test . carboxyhemoglobin test	phytoplankton RT algae dissolved organic matter marine biology Sea-viewing Wide Field-of-view Sensor water pollution
USE geomorphology  physiologic availability   (added August 2001)   USE bioavailability  physiological acceleration   DEF The acceleration experienced by a hu-	USE biotelemetry  physiological tests GS physiological tests . body sway test . carboxyhemoglobin test . ear pressure test	phytoplankton RT algae dissolved organic matter marine biology Sea-viewing Wide Field-of-view Sensor
DSE geomorphology  physiologic availability (added August 2001) USE bioavailability  physiological acceleration DEF The acceleration experienced by a human or an animal test subject in an accelerating	physiological tests GS physiological tests	phytoplankton RT algae dissolved organic matter marine biology Sea-viewing Wide Field-of-view Sensor water pollution zooplankton
USE geomorphology  physiologic availability   (added August 2001)   USE bioavailability  physiological acceleration   DEF The acceleration experienced by a human or an animal test subject in an accelerating vehicle.	physiological tests GS physiological tests	phytoplankton RT algae dissolved organic matter marine biology Sea-viewing Wide Field-of-view Sensor water pollution zooplankton
physiologic availability (added August 2001) USE bioavailability  physiological acceleration DEF The acceleration experienced by a human or an animal test subject in an accelerating vehicle. GS rates (per time)	physiological tests GS physiological tests . body sway test . carboxyhemoglobin test . ear pressure test . electronystagmography . tilt-table test . vestibular tests	phytoplankton RT algae dissolved organic matter marine biology Sea-viewing Wide Field-of-view Sensor water pollution zooplankton  phytotrons DEF Apparatus for the growth of plants un-
physiologic availability (added August 2001) USE bioavailability  physiological acceleration DEF The acceleration experienced by a human or an animal test subject in an accelerating vehicle.  GS rates (per time) physiological acceleration	physiological tests GS physiological tests	phytoplankton  RT algae     dissolved organic matter     marine biology     Sea-viewing Wide Field-of-view         Sensor     water pollution     zooplankton  phytotrons  DEF Apparatus for the growth of plants under a variety of controlled environmental condi-
DSE geomorphology  physiologic availability (added August 2001) USE bioavailability  physiological acceleration  DEF The acceleration experienced by a human or an animal test subject in an accelerating vehicle.  GS rates (per time)  physiological acceleration  RT ∞ acceleration	physiological tests GS physiological tests	phytoplankton RT algae dissolved organic matter marine biology Sea-viewing Wide Field-of-view Sensor water pollution zooplankton  phytotrons DEF Apparatus for the growth of plants un-
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physiologic availability (added August 2001) USE bioavailability  physiological acceleration DEF The acceleration experienced by a human or an animal test subject in an accelerating vehicle.  GS rates (per time)	physiological tests GS physiological tests	phytoplankton RT algae     dissolved organic matter     marine biology     Sea-viewing Wide Field-of-view         Sensor     water pollution     zooplankton  phytotrons  DEF Apparatus for the growth of plants under a variety of controlled environmental conditions. Used for germinators and growth chambers.  UF germinators     growth chambers RT germination     greenhouses     growth
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DSE geomorphology  physiologic availability (added August 2001) USE bioavailability  physiological acceleration  DEF The acceleration experienced by a human or an animal test subject in an accelerating vehicle.  GS rates (per time) physiological acceleration  RT ∞ acceleration acceleration (physics) acceleration stresses (physiology) deceleration gravitational physiology impact acceleration  physiological defenses  GS physiological defenses immunity  RT acquired immunodeficiency syndrome antibodies antigens biocompatibility ∞ defense immune systems inoculum interferon  physiological effects GS physiological effects physiological responses hemodynamic responses apoptosis	physiological tests GS physiological tests	Individual contents  In algae  In a
physiologic availability (added August 2001) USE bioavailability  physiological acceleration DEF The acceleration experienced by a human or an animal test subject in an accelerating vehicle.  GS rates (per time) physiological acceleration RT ∞ acceleration acceleration (physics) acceleration stresses (physiology) deceleration gravitational physiology impact acceleration  physiological defenses GS physiological defenses immunity RT acquired immunodeficiency syndrome antibodies antigens biocompatibility ∞ defense immune systems inoculum interferon  physiological effects GS physiological effects physiological responses hemodynamic responses apoptosis RT biological effects	physiological tests GS physiological tests	In phytoplankton  RT algae  dissolved organic matter marine biology  Sea-viewing Wide Field-of-view Sensor water pollution zooplankton  phytotrons  DEF Apparatus for the growth of plants under a variety of controlled environmental conditions. Used for germinators and growth chambers.  UF germinators growth chambers  RT germination greenhouses growth plants (botany)  Piaggio aircraft SP Piaggio aircraft Piaggio P-166 aircraft USE P-166 aircraft  Piaggio-Douglas PD-808 aircraft  Piaggio-Douglas PD-808 aircraft  Piasecki aircraft  Piasecki aircraft  Piasecki aircraft  Piasecki aircraft  Piasecki aircraft  Piasecki aircraft
physiologic availability (added August 2001) USE bioavailability  physiological acceleration DEF The acceleration experienced by a human or an animal test subject in an accelerating vehicle.  GS rates (per time)	physiological tests GS physiological tests	algae dissolved organic matter marine biology Sea-viewing Wide Field-of-view Sensor water pollution zooplankton  phytotrons DEF Apparatus for the growth of plants under a variety of controlled environmental conditions. Used for germinators and growth chambers.  UF germinators growth chambers RT germination greenhouses growth plants (botany)  Piaggio aircraft GS Piaggio aircraft P1-66 aircraft P1-808 aircraft USE P-166 aircraft USE P-166 aircraft USE P-808 aircraft USE PD-808 aircraft USE PD-808 aircraft Piasecki aircraft GS Piasecki aircraft VZ-8 aircraft NZ-8 aircraft  PV-8 aircraft
physiologic availability (added August 2001) USE bioavailability  physiological acceleration DEF The acceleration experienced by a human or an animal test subject in an accelerating vehicle.  GS rates (per time) physiological acceleration RT ∞ acceleration acceleration (physics) acceleration stresses (physiology) deceleration gravitational physiology impact acceleration  physiological defenses GS physiological defenses immunity RT acquired immunodeficiency syndrome antibodies antigens biocompatibility ∞ defense immune systems inoculum interferon  physiological effects GS physiological effects physiological responses hemodynamic responses apoptosis RT biological effects	physiological tests GS physiological tests	Individual contents  In algae  In a
physiologic availability (added August 2001) USE bioavailability  physiological acceleration DEF The acceleration experienced by a human or an animal test subject in an accelerating vehicle.  GS rates (per time)	physiological tests GS physiological tests	algae dissolved organic matter marine biology Sea-viewing Wide Field-of-view Sensor water pollution zooplankton  phytotrons DEF Apparatus for the growth of plants under a variety of controlled environmental conditions. Used for germinators and growth chambers.  UF germinators growth chambers RT germination greenhouses growth plants (botany)  Piaggio aircraft GS Piaggio aircraft P1-66 aircraft P1-808 aircraft USE P-166 aircraft USE P-166 aircraft USE P-808 aircraft USE PD-808 aircraft USE PD-808 aircraft Piasecki aircraft GS Piasecki aircraft VZ-8 aircraft NZ-8 aircraft  PV-8 aircraft
DSE geomorphology  physiologic availability (added August 2001)  USE bioavailability  physiological acceleration  DEF The acceleration experienced by a human or an animal test subject in an accelerating vehicle.  GS rates (per time)  physiological acceleration  RT ∞ acceleration  acceleration (physics)  acceleration stresses (physiology)  deceleration physiology  impact acceleration  physiological defenses  GS physiological defenses  immunity  RT acquired immunodeficiency syndrome antibodies  antigens  biocompatibility  defense  immune systems  inoculum  interferon  physiological effects  GS physiological effects  physiological erfects  sphysiological erfects  FS physiological erfects  physiological erfects  physiological erfects  sphysiological erfects  physiological erfects  physiological erfects  physiological erfects  physiological erfects  bone demineralization  cholera  comfort	physiological tests GS physiological tests	In phytoplankton  RT algae  dissolved organic matter marine biology Sea-viewing Wide Field-of-view Sensor water pollution zooplankton  Phytotrons  DEF Apparatus for the growth of plants under a variety of controlled environmental conditions. Used for germinators and growth chambers.  UF germinators growth chambers  RT germination greenhouses growth plants (botany)  Piaggio aircraft SP Piaggio aircraft P1-66 aircraft PD-808 aircraft  Piaggio P-166 aircraft  VSE P-166 aircraft  Piaggio-Douglas PD-808 aircraft USE PD-808 aircraft  Piasecki aircraft  Piasecki aircraft  RT ∞ aircraft  Piasecki aircraft  RT ∞ aircraft  Pickling (metallurgy)
physiologic availability (added August 2001) USE bioavailability  physiological acceleration  DEF The acceleration experienced by a human or an animal test subject in an accelerating vehicle.  GS rates (per time)  physiological acceleration  RT ∞ acceleration acceleration (physics) acceleration stresses (physiology) deceleration gravitational physiology impact acceleration  physiological defenses  GS physiological defenses immunity  RT acquired immunodeficiency syndrome antibodies antigens biocompatibility  defense immune systems inoculum interferon  physiological effects GS physiological effects  physiological effects sphysiological effects sphysiological responses hemodynamic responses apoptosis  RT biological effects bone demineralization cholera	physiological tests GS physiological tests	In phytoplankton  In algae  In algae  In dissolved organic matter  In marine biology  In Sea-viewing Wide Field-of-view
physiologic availability (added August 2001) USE bioavailability  physiological acceleration DEF The acceleration experienced by a human or an animal test subject in an accelerating vehicle.  GS rates (per time)	physiological tests GS physiological tests	In phytoplankton  In algae  In alga
physiologic availability (added August 2001) USE bioavailability  physiological acceleration DEF The acceleration experienced by a human or an animal test subject in an accelerating vehicle.  GS rates (per time)	physiological tests GS physiological tests	In phytoplankton  In algae  In alga
physiologic availability (added August 2001) USE bioavailability  physiological acceleration DEF The acceleration experienced by a human or an animal test subject in an accelerating vehicle.  GS rates (per time)	physiological tests GS physiological tests	In phytoplankton  In algae  In alga

RT descaling praetersonic devices vulnerability metal films ultrasonic cleaning piers metal finishing scale (corrosion) USE wharves piezoelectricity
DEF The property exhibited by some asypiezoactuators pickoffs metrical crystalline materials which when sub-(added January 2001) USE sensors jected to strain in suitable directions develop USE piezoelectric actuators polarization proportional to the strain. GS electrical properties pickups piezoelectric actuators piezoelectricity USE sensors (added January 2001) mechanical properties DEF Any actuator that uses the piezoelecpiezoelectricity tric effect as a basis for its function. picosecond pulses crystal oscillators GS pulses UF piezoactuators elastic properties picosecond pulses GS actuators electricity amplitudes piezoelectric actuators electrostriction electromagnetic missiles electromechanical devices piezoresistive transducers electromagnetic pulses piezoelectric actuators pyroelectricity laser outputs RT active control pulse rate microelectromechanical systems piezometers pulsed radiation piezoelectric motors GS measuring instruments time signals piezoelectric transducers . pressure gages smart materials smart structures picrates RT seepage GS nitrogen compounds ultrasonic wave transducers vibration damping . nitro compounds . . picrates piezomotors piezoelectric ceramics . . . ammonium picrates (added January 2001) DEF Ceramic material with piezoelectric USE piezoelectric motors properties similar to those of some natural cryspicture elements USE pixels piezoresistive transducers GS transducers piezoelectric ceramics picture tubes . piezoresistive transducers lead zirconate titanates . piezoelectric gages UF kinescopes smart materials piezoelectric crystals GS electron tubes piezoelectricity . vacuum tubes piezoelectric crystals . . cathode ray tubes . . . picture tubes GS crystals . crystal oscillators pigeons video equipment . . piezoelectric crystals GS animals picture tubes oscillators . vertebrates display devices . crystal oscillators . . birds flying spot scanners piezoelectric crystals ... pigeons raster scanning RT microsonics television equipment piezoresistive transducers 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 piedmonts Saenger space transportation system . pressure gages pediments UF ∞ systems piezoelectric gages pediplains transducers GS landforms . piezoelectric transducers pigments . terraces (landforms) . piezoelectric gages GS pigments . . plateaus carotene . piezoresistive transducers ... piedmonts . carotenoids piezoelectric gages ... Central Piedmont (US) . chlorophylls pressure sensors RT coastal plains . cytochromes strain gages mountains . melanin . phytochrome piezoelectric motors pi-electrons (added January 2001) visual pigments GS particles additives 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 ultrasonic wave transducers RT molecular electronics 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 cutting having piezoelectric properties. Note: Some RT . peaks (landforms) crystals and specially processed ceramics have piezoelectric properties. drilling Pike's Peak (CO) extruding RT Colorado transducers forging GS mountains metal working piezoelectric transducers . piezoelectric gages penetration

interdigital transducers piezoelectric actuators

piezoelectric motors

perforating ∞ perforation

spark machining

pile foundations

foundations

. pile foundations

RT ∞ piles	GS	flight characteristics		pilots (personnel)
miles		. pilot ratings		aircraft pilots
		Cooper-Harper ratings		test pilots
RECOMMENDEDCONSULT THE TERMS		ratings		. operators (personnel)
LISTED BELOW)		. pilot ratings Cooper-Harper ratings		pilots (personnel) aircraft pilots
RT nuclear reactors	RT	aircraft performance		test pilots
pile foundations	111	assessments	RT	•
pilocarpine		controllability		cosmonauts
GS bases (chemical)		helicopter performance		crews
. alkaloids		· · · · · · · · · · · · · · · · · · ·		flight crews
pilocarpine	pilot se	election	c	∘ pilots
nitrogen compounds	GS	selection		•
. alkaloids		. personnel selection		Associate
pilocarpine		pilot selection	•	ed October 1997)
organic compounds	RT	physiological tests	USE	pilot support systems
. cyclic compounds		psychological tests		,
heterocyclic compounds			p-i-n did	
alkaloids		upport systems	USE	
pilocarpine		led October 1997)		p-i-n junctions
	SN	(LIMITED TO ADVANCED FLIGHT VEHICLE SYSTEMS FOR INTEGRATING,	p-i-n ju	nctions
pilot error		INTERPRETING, AND PRESENTING		p-i-n diodes
UF flight technical error GS errors		FLIGHT OR MISSION RELATED INFORMATION)	GS	semiconductor junctions
	UF	cockpit assistant systems	GO	. p-i-n junctions
. <b>pilot error</b> RT aircraft accidents		Pilot's Associate	RT	diodes
collisions	GS	information systems		∘ junctions
crash landing		. pilot support systems		solar cells
crashes		support systems		
human factors engineering		pilot support systems	pinch e	effect
human performance	RT	artificial intelligence	DEF	The result of an electromechanical
midair collisions		automatic pilots	force th	nat constricts, and sometimes momen-
pilot induced oscillation		avionics	tarily ru	ptures, a molten conductor carrying cur-
<b>F</b>		cockpits		a high density. The self contradiction of a
pilot induced oscillation		decision support systems	plasma	column carrying large currents due to
DEF Oscillations of a flying aircraft caused		expert systems	the inte	raction of this current with its own mag-
by transients and system changeovers, by pilot		flight management systems	netic fie	
overreaction upon such transients, or by mis-		human-computer interface	GS	pinch effect
leading pilot cues or excessive pilot gain in		knowledge based systems		. plasma pinch
modern high-gain, high order aircraft control		man machine systems		screw pinch
systems.		situational awareness		theta pinch
RT aerodynamic stability		-11		zeta pinch
aircraft control	pilot tra		БТ	. reverse field pinch
aircraft stability	GS	education	RT	
control stability		. flight training pilot training	c	∘ effects
high gain	RT	astronaut training		magnetic fields
longitudinal control	111	aviation psychology		magnetohydrodynamics plasma compression
man machine systems		ejection injuries		plasma control
nonstabilized oscillation		ejection training		relativistic plasmas
pilot error		flight simulators		stellarators
pilot performance self induced vibration		space flight training		thermonuclear power generation
stable oscillations		training simulators		thermonuclear reactions
transient oscillations		<b>3</b> · · · · · · ·		zeta thermonuclear reactor
transient oscillations	piloted	centrifuges		2014 110111011401041 1040101
pilot landing aid television system	USE	human centrifuges	pineal	gland
USE PLAT system		_		anatomy
	pilotles	s aircraft		. glands (anatomy)
pilot opinion ratings	SN	(AIR VEHICLES USING REMOTE OR		endocrine glands
(added August 1999)	UF	AUTONOMOUS CONTROL)  Darkstar unmanned aerial vehicle		pineal gland
USE pilot ratings	UF	unmanned aerial vehicles		. nervous system
	GS	pilotless aircraft		central nervous system
pilot performance	do	. drone aircraft		brain
GS human performance		target drone aircraft		diencephalon
pilot performance		Firebee 2 target drone aircraft		pineal gland
blackout prevention		Jindivik target aircraft	RT	melatonin
RT aircraft performance		. X-45 aircraft		
astronaut performance	RT «	∞ aircraft		cameras
flight fatigue		balloons		Cameras which have no lenses, but
intravehicular activity		drone vehicles		essentially of a darkened box with a
man operated propulsion systems		light aircraft		ole in one side, so that an inverted image
operator performance	c	∞ military aircraft		de objects is projected on the opposite ere it is recorded on photographic film.
∞ performance		oblique wings	GS	optical equipment
pilot induced oscillation psychomotor performance		planetary aerial vehicles	ao	. cameras
		reconnaissance aircraft		pinhole cameras
sensorimotor performance situational awareness		remotely piloted vehicles		photographic equipment
Situational awareness		unmanned aircraft systems		. cameras
pilot plants				pinhole cameras
RT industrial plants	∞ pilots		RT	•
models	SN	(USE OF A MORE SPECIFIC TERM IS	• • • •	photography
product development		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		Pinhole Occulter Facility
prototypes	RT	aircraft pilots		pinholes
h Ah		automatic pilots		•
pilot ratings		pilots (personnel)	Pinhole	Occulter Facility
(added August 1999)		test pilots	GS	
DEF Subjective assessment of the handling				. astronomical observatories
and stability characteristics of an aircraft or other	pilots (	personnel)		solar observatories
flight vehicle.	· GS`	personnel		Pinhole Occulter Facility
UF pilot opinion ratings		. 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 RT Pioneer F space probe 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 porosity GS programs . space probes . NASA programs . . 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 RT 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 GS interplanetary spacecraft unmanned spacecraft Pioneer 11 space probe . 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 Juno 2 launch vehicle . Pioneer space probes Pioneer project Pioneer Venus 1 spacecraft ... Pioneer 9 space probe Pioneer 2 space probe interplanetary spacecraft RT ∞ probes . Pioneer space probes Pioneer Venus 2 spacecraft Pioneer Venus spacecraft Pioneer 2 space probe solar probes unmanned spacecraft 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 tional. Used for Pioneer Venus Orbiter. . Pioneer space probes . . Pioneer space probes . Pioneer 3 space probe Pioneer Venus Orbiter ... Pioneer 10 space probe interplanetary spacecraft unmanned 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 Juno 2 launch vehicle . Pioneer Venus 1 spacecraft UF Pioneer G space probe Pioneer Saturn spacecraft RT Pioneer space probes Pioneer 4 Junar probe 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 Pioneer 4 lunar probe unmanned spacecraft

. 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 RT ∞ probes 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 . space probes

. . 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

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

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 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 storagestorage tanks

transportation

waste disposal

. . Pioneer Venus 2 transporter bus

water hammer	internal combustion engines pistons	supersonic flow. (Pronounced pee-toe. After Henri Pitot, 1695-1771, French scientist.) Used
pipelining (computers)	reciprocation	for Preston tubes.
DEF Processing techniques for improving	rotary engines	UF Preston tubes
the capability of computer systems by model-	Wankel engines	RT flow measurement
ling, sequencing control, resource allocation,	piston theory	flowmeters
etc. GS data processing	RT compressing	pressure measurement protuberances
. pipelining (computers)	fluid dynamics	speed indicators
RT associative processing (computers)	pistons	static pressure
data processing equipment	∞ theories	∞ tubes
multiprocessing (computers)	ulata a a	velocity measurement
multiprogramming	pistons GS pistons	Venturi tubes
parallel programming RISC processors	. magnetic pistons	∞ pits
time sharing	RT combustion chambers	SN (USE OF A MORE SPECIFIC TERM IS
vector processing (computers)	engine parts	RECOMMENDEDCONSULT THE TERMS
. ,	free-piston engines	LISTED BELOW) RT pits (excavations)
Piper aircraft	internal combustion engines	pitting
GS light aircraft	piston engines piston theory	
. Piper aircraft PA-34 Seneca aircraft	plungers	pits (excavations)
RT ∞ aircraft	reciprocation	RT boreholes
general aviation aircraft		excavation mines (excavations)
	PIT (rocket engines)	∞ pits
piperidine	(added April 2001)	sumps
GS bases (chemical)	USE pulsed inductive thrusters	P. P.
piperidine	nitah	pitting
organic compounds		RT chemical attack
. cyclic compounds heterocyclic compounds	RECOMMENDEDCONSULT THE TERMS	chipping
piperidine	LISTED BELOW) UF tone	corrosion
RT pyridines	UF <i>tone</i> RT frequencies	corrosion resistance corrosion tests
TT Pyriamos	pitch (inclination)	degradation
pipes (tubes)	pitch (material)	erosion
UF tubing	, ,	erosive burning
GS pipes (tubes)	pitch (inclination)	etching
. gas pipes	DEF Of a vehicle, an angular displacement	hot corrosion
. U bends	about an axis parallel to the lateral axis of the	metal-water reactions
RT ∞ casing circular tubes	vehicle. Used for damping in pitch, phugoid	∞ pits .
ducts	oscillations, and pitch angles. UF damping in pitch	scoring
fluid flow	phugoid oscillations	pituitary gland
∞ headers	pitch angles	UF hypophysis
hoses	GS attitude (inclination)	GS anatomy
∞ hydraulics	. pitch (inclination)	. glands (anatomy)
internal flow	RT angles (geometry)	endocrine glands
manifolds	heaving	pituitary gland
pipe flow	longitudinal control	RT brain
pipelines risers	longitudinal stability	hypothalamus
siphons	∞ motion ∞ pitch	vasopressins
syringes	roll	pituitary hormones
∞ tubes	rotation	UF growth hormone
	slopes	GS secretions
pipettes	stability augmentation	. endocrine secretions
RT burettes	variable pitch propellers	hormones
glassware	yaw	pituitary hormones
laboratory equipment	witch (westernich)	adrenocorticotropin (ACTH)
Pirani gages	pitch (material)  DEF The residues from the destructive dis-	vasopressins
GS measuring instruments	tillation of tars.	PIV (velocimetry)
. pressure gages	RT asphalt	USE particle image velocimetry
vacuum gages	oils	,
Pirani gages	∞ pitch	pivoted wing aircraft
vacuum apparatus	tars	USE tilt wing aircraft
. vacuum gages <b>Pirani gages</b>		
RT hot-wire flowmeters	pitch angles	pivots  DEF The paths followed by a point in a
ionization gages	USE pitch (inclination)	DEF The paths followed by a point in a diameter of a circle as the circle rolls along in a
Knudsen gages	pitch attitude control	straight line. Used for trochoids.
Mcleod gages	USE longitudinal control	UF trochoids
pressure measurement		RT bearings
	pitching moments	gimbals
piston engines	GS moments	hinges
DEF Engines, especially internal combus-	. stability derivatives	pintles
tion engines, in which a piston or pistons moving	pitching moments	shafts (machine elements)
back and forth work upon a crankshaft or other device to create rotational movement. Used for	RT aerodynamic coefficients	supports
reciprocating engines.	longitudinal stability moments of inertia	swivels
UF reciprocating engines	rolling moments	PIX
GS engines	torque	USE plasma interaction experiment
. piston engines	yawing moments	p
diesel engines	, ,	pixels
free-piston engines	pitot tubes	DEF Shortened term for 'picture elements.'
Stirling engines	DEF Open ended tubes or tube arrange-	They are image resolution elements in vidicon-
RT aircraft engines	ments which, when pointed upstream, may be	type detectors. Used for picture elements.
automobile engines external combustion engines	used to measure the stagnation pressure of the fluid for subsonic flow; or the stagnation pres-	UF <i>picture elements</i> RT aerial photography
fuel injection	sure behind the tube's normal shock wave for	electrophotometry
idoi injoutori	Said Somina the table o Herrial Shook wave for	olooti opriotoriioti y

PL/1

GS

RT

plains

imaging techniques . radarscopes planets plan position indicators photographs photography measuring instruments planet origins remote sensing . indicating instruments USE planetary evolution satellite imagery . . position indicators planet X spectral mixture analysis plan position indicators (added June 1998) radar equipment . radarscopes USE hypothetical planets plan position indicators languages planetariums . programming languages astronomical models planar structures . PL/1 display devices RT flat layers Cobol flat plates planetary aerial vehicles compilers flat surfaces (added November 2006)
DEF Aircraft capable of flight in planetary computer programming flatness FORTRAN ∞ structures and satellite atmospheres, and configured to machine oriented languages surface properties support surface and atmospheric exploration missions. plages (faculae) Plancks constant USE faculae UF planetary aircraft GS constants RT ∞ aircraft Plancks constant plagioclase pilotless aircraft black body radiation (added August 2004) de Broglie wavelengths space exploration DEF A family of feldspar minerals with forelectromagnetic radiation mulas ranging from pure sodium aluminum silinuclear magnetic resonance planetary aircraft cate (albite) to pure calcium aluminum silicate (added November 2006) photons USE planetary aerial vehicles quantum theory GS aluminum compounds thermal radiation . aluminum silicates planetary atmospheres Wentzel-Kramer-Brillouin method . . feldspars (EXCLUDES EARTH ATMOSPHERE) . . plagioclase ènvironments plane strain . extraterrestrial environments minerals DEF A deformation of a body in which the displacement of all points in the body are parallel . . planetary environments . feldspars ... planetary atmospheres plagioclase to a given plane, and the displacement values silicon compounds . . . . helium hydrogen atmospheres are not dependent on the distance perpendicu-. silicates lar to the plane. ... Jupiter atmosphere RT crack propagation elastic deformation . . aluminum silicates Mars atmosphere . . . feldspars Mercury atmosphere . . . . Neptune atmosphere ... plagioclase fracture mechanics planetary ionospheres RT aluminum oxides plane stress calcium silicates plastic deformation Pluto atmosphere Saturn atmosphere sodium silicates stress intensity factors . . . . Uranus atmosphere stress-strain relationships . . . . Venus atmosphere DEF Any flat areas, large or small, at a low elevation; specifically, extensive regions of com-. . . . Venus clouds plane stress RT ∞ absorption GS stresses paratively smooth and level or gently undulating ∞ atmospheres plane stress 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 have of trees, and may be formed by atmospheric attenuation loads (forces) atmospheric composition plane strain atmospheric density stress concentration atmospheric energy sources forested or bare of trees, and may be formed by atmospheric temperature plane waves Earth analogs longitudinal waves deposition or by erosion. GS GS land Earth atmosphere plane waves ionopause lunar atmosphere nongray atmospheres Nozomi Mars Orbiter beams (radiation) . plains coastal plains cylindrical waves flood plains elastic waves . . Llanos Orientales (Colombia) evanescent waves pampas normal shock waves organic solids . . playas ∞ radiation planetary meteorology planetary rings tundra shock waves landforms solitary waves primitive Earth atmosphere . plains sound waves radiative transfer coastal plains spatial filtering radio occultation flood plains spherical waves satellite atmospheres Saturn rings . . Llanos Orientales (Colombia) transverse waves . . pampas traveling waves solar planetary interactions terraforming . . playas ∞ waves . tundra farmlands planet detection planetary bases flats (landforms) (added January 2003) GS space bases DEF Detection of extrasolar planets using planetary bases geography any of a number of direct and indirect observa-. Mars bases grasslands tion techniques including astrometry, transit phoextraterrestrial resources Great Plains Corridor (North America) tometry, Doppler spectroscopy, and ground and in situ resource utilization plateaus space-based interferometry. space exploration steppes topography wilderness exoplanet detection stations extrasolar planet detection GS detection planetary boundary layer plan position indicators planet detection DEF The layer of the atmosphere from the DEF Display devices on which target blips Earth's surface to the geostrophic wind level, astrometry are shown in plan position, thus forming a including the surface boundary layer and the astronomical interferometry

astronomical photometry

planet ephemerides

geocentric coordinates

extrasolar planets

planetary systems

planet ephemerides ephemerides

GS

Ekman layer.

boundary lavers

GS composition (property)

planetary composition

. planetary boundary layer atmospheric boundary layer

core-mantle boundary

GS

### 726

map-like display, with radial distance from the center representing range and with the angle of the radius vector representing azimuth angle.

. . plan position indicators

Used for PPI (position indicators).

UF PPI (position indicators)

GS display devices

position indicators

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 planet origins
evolution (development)
planetary evolution structural properties (geology) lunar limb solar limb GS planetary cores cosmology The centers of planets. 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 geology GS 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
MESSENGER (spacecraft) planetary crusts DEF The outermost layers of planets. The planetary crusts are on top of the mantle and are the sun for a variable distance of the order of planetary craters 1,000 planet radii. planetary crusts modified by various processes of weathering, environments planetary evolution sedimentation, metamorphosis, volcanism, and . extraterrestrial environments planetary structure bombardment by meteorites. planetary surfaces . . planetary environments GS crusts ... planetary magnetospheres planetology 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 planetary entry . extraterrestrial environments lunar mantle USE atmospheric entry . . planetary environments planetary crusts ... planetary atmospheres planetary environments planetary ionospheres planetary mapping (EXCLUDES EARTH) RT ∞ atmospheres mapping GS 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 GS landing Saturn atmosphere . spacecraft landing planetary meteorology meteorology
. planetary meteorology Uranus atmosphere . planetary landing Venus atmosphere . Mars landing . . . . Venus clouds crash landing atmospheric circulation . . . planetary magnetospheres . . . . planetary magnetotails glide landings atmospheric physics hard landing horizontal spacecraft landing Jupiter atmosphere aerospace environments Mars atmosphere bioastronautics interplanetary flight Mercury atmosphere planetary atmospheres planetary cryospheres ∞ cryospheres lunar landing exobiology

orbital mechanics

roving vehicles

soft landing

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)

USE 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)

DEF 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

planetary protection

planetary quarantine spacecraft sterilization

RT

### planetary radiation

(EXCLUDES TERRESTRIAL RADIATION) electromagnetic radiation

planetary radiation extraterrestrial radiation

planetary radiation

albedo

728

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

∞ rings

### 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

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 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

### planets

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	∞ design	auxins
protoplanets	forecasting	germination
Saturn rings	∞ missions	gravitropism
solar system	optimization	leaves
solar system evolution sun	pattern method (forecasting) probe method (forecasting)	photosynthesis phototropism
Juli	production engineering	phytochrome
planforms	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 . sweptback tail surfaces	urban development	seedlings (botany) transpiration
. trapezoidal tail surfaces	planotrons	vegetation growth
. wing planforms	UF amplitrons (trademark)	rogetation growth
channel wings	GS amplifiers	plant roots
infinite span wings	. microwave amplifiers	RT auxins
swept forward wings	planotrons	bulbs
trapezoidal wings	electron tubes . vacuum tubes	plant physiology plants (botany)
sweptback wings arrow wings	microwave tubes	∞ roots
delta wings	planotrons	seedlings (botany)
trapezoidal wings	microwave equipment	vegetation growth
variable sweep wings	microwave amplifiers	
RT ∞ bodies	planotrons	plant stress
∞ cross sections	. microwave tubes	DEF Stimulus or a series of stimuli of such
geometry	<b>planotrons</b> RT camera tubes	magnitude as to disrupt the growth and/or sur vival of plants.
∞ profiles		GS stress (biology)
shapes ∞ surface geometry	electric arcs magnetrons	. plant stress
Surface geoffielly		RT aerial photography
planigraphy	∞ plans	agriculture
USE tomography	SN (USE OF A MORE SPECIFIC TERM IS	crop growth
	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)	crop vigor
planing	RT drawings	Earth Resources Program
SN (EXCLUDES MOTION INVOLVING DYNAMIC SUPPORTING FORCES)	flight plans	plant diseases plant physiology
GS cutting	layouts	remote sensing
. planing	mission planning payload integration plan	soil moisture
RT grinding (material removal)	urban development	spectral reflectance
machining	arban dovelopment	vegetation growth
metal cutting	plant design	ulautau tiaassa
milling (machining) slicing	SN (EXCLUDES BIOLOGICAL PLANTS)	plantar tissues
smoothing	DEF Encompasses all design consideration	GS tissues (biology) . plantar tissues
omodaning	of physical plants, i.e., airports, industrial plants, test facilities, etc. Structural is just one aspect of	. platital tissues
planispheres	this design. SN (excludes biological plants)	planting
GS maps	RT architecture	RT agriculture
. astronomical maps	∞ design	∞ crops
planispheres	structural design	cultivation
RT astronomical coordinates celestial sphere	ulant diasassa	farm crops
constellations	plant diseases UF diseased vegetation	farmlands fertilizers
polar coordinates	GS plant diseases	plants (botany)
F	. blight	plowing
plankton	RT agriculture	plows
DEF The aggregate of passively floating or	crop growth	seeds
drifting plant and animal organisms which pro-	crop identification	silviculture
vide the major source of sustenance for animal	crop vigor	soils
life in the aquatic ecosystem. Used for plankton bloom.	diseases	tractors
UF plankton bloom	fungi plant physiology	vegetables
GS plankton	plant stress	plants (botany)
. phytoplankton	plants (botany)	UF Îlora
. zooplankton	rust fungi	GS plants (botany)
RT algae		. alfalfa
animals	plant growth regulators	. algae
plants (botany)	(added August 2004)	blue green algae
red tide thermal pollution	DEF A substance which affects the growth and other functions of a plant. These include the	anabaena Microcystis
thornal pollution	hormones auxins, gibberellins, and cytokinins,	Nostoc
plankton bloom	which are produced naturally in plants, as well	Chlorella
USE plankton	as ethylene.	Dunaliella
	GS plant growth regulators	porphyra
planning	. abscisic acid	scenedesmus
GS <b>planning</b> . airport planning	. auxins	. aquatic plants
. management planning	RT ethylene indoleacetic acids	phytoplankton . barley
production planning	plant physiology	. brush (botany)
project planning	plants (botany)	chaparral
. mission planning	1 (****** 7)	. Bryophytes
regional planning	plant physiology	. corn
urban planning	(added August 2004)	. cotton
. task planning (robotics)	DEF Physiological functions characteristic	. fungi
. trajectory planning RT budgeting	of plants. GS physiology	Aspergillus
critical path method	. plant physiology	Coccomyces gibberellins
Delphi method (forecasting)	RT abscisic acid	neurospora
. (		· ·

	rhizopus	plastids	plasmas (physics)
	rust fungi	plowing	
	saccharomyces	pollen	plasma chromatography
	yeast	rain forests	USE ion mobility spectroscopy
	. grasses	seeds	nleeme elevide
	hay	spores	plasma clouds  DEF Specifically, a mass of ionized gas
	reeds (plants)	stems	DEF Specifically, a mass of ionized gas flowing out of the sun.
	sea grasses	utricle	GS particles
	sorghum	vegetation	•
	. guayule	viability	. charged particles <b>plasma clouds</b>
	. leguminous plants	vineyards	· · · · · · · · · · · · · · · · · · ·
	soybeans	wood	magnetic clouds RT chemical clouds
	. lichens		∞ clouds
	. millet	plants (industries)	cosmic plasma
	. oats	USE industrial plants	dusty plasmas
	. photophilic plants		Earth magnetosphere
	. phreatophytes	plasma acceleration	geomagnetic hollow
	. potatoes	UF magnetohydrodynamic acceleration	hydrogen clouds
	. rice	GS rates (per time)	interplanetary medium
	. saprophytes	. acceleration (physics)	ion sheaths
	. spinach	<b>plasma acceleration</b> RT ∞ acceleration	plasmapause
	. sugar beets		plasmas (physics)
	. sugar cane	magnetic nozzles	plasmas (priyolos)
	. 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	nlaama aagalaratara	dusty plasmas
	Nostoc	plasma accelerators GS plasma accelerators	gas composition
	. tobacco	GS plasma accelerators . alpha plasma devices	ion motion
	. tradescantia	·	ionospheric composition
	. tragacanth	. coaxial plasma accelerators	nonequilibrium plasmas
	. trees (plants)	. Cyclops plasma accelerator RT ∞ accelerators	nonuniform plasmas
	citrus trees	electromagnetic acceleration	plasmas (physics)
	conifers	ion injection	Thomas-Fermi model
	deciduous trees	magnetic annular arc	uranium plasmas
	. genetically modified plants	magnetohydrodynamic generators	·
	. seedlings (botany)	magnetoplasmadynamic thrusters	plasma compression
RT	abscisic acid	plasmas (physics)	DEF Decrease in volume and consequent
	agriculture	plasmas (priyolos)	increase in density of a plasma usually by the
	angiosperms	plasma antennas	applicaton of an intense magnetic field.
	animals	DEF An air plasma made by ionizing the	GS compressing
	auxins	atmosphere which acts as the conducting ele-	. plasma compression
	biochemical oxygen demand	ment of an RF antenna.	RT controlled fusion
	biogeochemistry	GS antennas	dense plasmas
	biomass	. plasma antennas	inertial fusion (reactor)
	blight	RT antenna design	magnetic effects
	botany	antenna radiation patterns	magnetic field configurations
	canopies (vegetation)	plasma cylinders	pinch effect
	carbon cycle	satellite communication	plasma focus
	chlorophylls	spacecraft communication	plasma pressure
	cortexes (botany) crop growth		
			plasmas (physics)
		plasma arc cutting	strongly coupled plasmas
	crop vigor	plasma arc cutting  DEF Use of plasma torches for cutting hard	strongly coupled plasmas theta pinch
	crop vigor defoliants	plasma arc cutting  DEF Use of plasma torches for cutting hard materials at extremely high temperatures.	strongly coupled plasmas theta pinch tokamak devices
	crop vigor defoliants defoliation	DEF Use of plasma torches for cutting hard	strongly coupled plasmas theta pinch
	crop vigor defoliants defoliation Earth resources	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting	strongly coupled plasmas theta pinch tokamak devices zeta pinch
	crop vigor defoliants defoliation Earth resources environments	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.	strongly coupled plasmas theta pinch tokamak devices zeta pinch plasma conductivity
	crop vigor defoliants defoliation Earth resources environments farm crops	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity GS electrical properties
	crop vigor defoliants defoliation Earth resources environments farm crops foliage	DEF Use of plasma torches for cutting hard materials at extremely high temperatures. RT metal cutting metal working plasma arc welding	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity GS electrical properties . electrical resistivity
	crop vigor defoliants defoliation Earth resources environments farm crops foliage food chain	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity GS electrical properties . electrical resistivity . plasma conductivity
	crop vigor defoliants defoliation Earth resources environments farm crops foliage	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)  plasma arc spraying	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity GS electrical properties electrical resistivity plasma conductivity transport properties
	crop vigor defoliants defoliation Earth resources environments farm crops foliage food chain forests	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity GS electrical properties electrical resistivity transport properties electrical resistivity
	crop vigor defoliants defoliation Earth resources environments farm crops foliage food chain forests frost damage	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)  plasma arc spraying USE arc spraying	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity GS electrical properties electrical resistivity plasma conductivity transport properties electrical resistivity transport properties electrical resistivity plasma conductivity
	crop vigor defoliants defoliation Earth resources environments farm crops foliage food chain forests frost damage geobotany	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)  plasma arc spraying USE arc spraying  plasma arc welding	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity GS electrical properties . electrical resistivity . plasma conductivity transport properties . electrical resistivity . plasma conductivity transport properties . electrical resistivity . plasma conductivity collisional plasmas
	crop vigor defoliants defoliation Earth resources environments farm crops foliage food chain forests frost damage geobotany geotropism	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)  plasma arc spraying USE arc spraying  plasma arc welding GS welding	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity GS electrical properties electrical resistivity plasma conductivity transport properties electrical resistivity transport properties electrical resistivity plasma conductivity
	crop vigor defoliants defoliation Earth resources environments farm crops foliage food chain forests frost damage geobotany geotropism gravitropism	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)  plasma arc spraying USE arc spraying  plasma arc welding GS welding fusion welding	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity GS electrical properties electrical resistivity plasma conductivity transport properties electrical resistivity plasma conductivity transport properties electrical resistivity collisional plasmas conductivity
	crop vigor defoliants defoliation Earth resources environments farm crops foliage food chain forests frost damage geobotany geotropism gravitropism greenhouses	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)  plasma arc spraying USE arc spraying USE arc spraying  plasma arc welding GS welding . fusion welding . electric welding	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity GS electrical properties . electrical resistivity . plasma conductivity transport properties . electrical resistivity . plasma conductivity . plasma conductivity . plasma conductivity . collisional plasmas  ∞ conductivity ionospheric conductivity
	crop vigor defoliants defoliation Earth resources environments farm crops foliage food chain forests frost damage geobotany geotropism gravitropism gravitropism greenhouses halophiles	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)  plasma arc spraying USE arc spraying  plasma arc welding GS welding . fusion welding . electric welding arc welding	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity GS electrical properties electrical resistivity plasma conductivity transport properties electrical resistivity transport properties electrical resistivity plasma conductivity collisional plasmas conductivity ionospheric conductivity magnetohydrodynamic stability
	crop vigor defoliants defoliation Earth resources environments farm crops foliage food chain forests frost damage geobotany geotropism gravitropism gravitropism greenhouses halophiles herbicides	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)  plasma arc spraying  USE arc spraying  plasma arc welding  GS welding  . fusion welding  . electric welding  . arc welding  arc welding  plasma arc welding	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity  GS electrical properties electrical resistivity plasma conductivity transport properties electrical resistivity plasma conductivity collisional plasmas conductivity ionospheric conductivity magnetohydrodynamic stability plasmas (physics)
	crop vigor defoliants defoliation Earth resources environments farm crops foliage food chain forests frost damage geobotany geotropism gravitropism greenhouses halophiles herbicides heterotrophs	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)  plasma arc spraying USE arc spraying  plasma arc welding GS welding . fusion welding electric welding arc welding	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity  GS electrical properties electrical resistivity plasma conductivity transport properties electrical resistivity plasma conductivity collisional plasmas conductivity ionospheric conductivity magnetohydrodynamic stability plasmas (physics)
	crop vigor defoliants defoliation Earth resources environments farm crops foliage food chain forests frost damage geobotany geotropism gravitropism greenhouses halophiles herbicides heterotrophs hydroponics	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)  plasma arc spraying USE arc spraying  plasma arc welding GS welding fusion welding arc welding arc welding arc welding RT plasma arc cutting plasma arc cutting plasma arc cutting plasma torches	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity GS electrical properties . electrical resistivity . plasma conductivity transport properties . electrical resistivity . plasma conductivity Transport properties . electrical resistivity . plasma conductivity  RT collisional plasmas  conductivity ionospheric conductivity magnetohydrodynamic stability plasmas (physics) strongly coupled plasmas
	crop vigor defoliants defoliation Earth resources environments farm crops foliage food chain forests frost damage geobotany geotropism gravitropism greenhouses halophiles herbicides heterotrophs hydroponics infestation	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)  plasma arc spraying USE arc spraying  plasma arc welding GS welding . fusion welding electric welding arc welding	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity GS electrical properties . electrical resistivity . plasma conductivity transport properties . electrical resistivity . plasma conductivity . plasma conductivity . plasma conductivity  RT collisional plasmas  ∞ conductivity ionospheric conductivity magnetohydrodynamic stability plasmas (physics) strongly coupled plasmas  plasma confinement
	crop vigor defoliants defoliants defoliation Earth resources environments farm crops foliage food chain forests frost damage geobotany geotropism gravitropism gravitropism greenhouses halophiles herbicides heterotrophs hydroponics infestation lacunas leaves microorganisms	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)  plasma arc spraying USE arc spraying  plasma arc welding GS welding electric welding arc welding plasma arc welding RT plasma arc cutting plasma torches plasmas (physics)	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity GS electrical properties electrical resistivity plasma conductivity transport properties electrical resistivity plasma conductivity transport properties electrical resistivity plasma conductivity collisional plasmas conductivity ionospheric conductivity magnetohydrodynamic stability plasmas (physics) strongly coupled plasmas  plasma confinement USE plasma control  plasma control
	crop vigor defoliants defoliation Earth resources environments farm crops foliage food chain forests frost damage geobotany geotropism gravitropism gravitropism greenhouses halophiles herbicides heterotrophs hydroponics infestation lacunas leaves	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)  plasma arc spraying  USE arc spraying  plasma arc welding GS welding . fusion welding . electric welding arc welding plasma arc welding  RT plasma arc cutting plasma torches plasmas (physics)	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity GS electrical properties electrical resistivity plasma conductivity transport properties electrical resistivity plasma conductivity ransport properties electrical resistivity plasma conductivity  RT collisional plasmas conductivity ionospheric conductivity magnetohydrodynamic stability plasmas (physics) strongly coupled plasmas  plasma confinement USE plasma control  plasma control  UF plasma confinement
	crop vigor defoliants defoliation Earth resources environments farm crops foliage food chain forests frost damage geobotany geotropism gravitropism gravitropism greenhouses halophiles herbicides heterotrophs hydroponics infestation lacunas leaves microorganisms microspores	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)  plasma arc spraying USE arc spraying  plasma arc welding GS welding electric welding arc welding plasma arc welding RT plasma arc cutting plasma torches plasmas (physics)	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity GS electrical properties electrical resistivity plasma conductivity transport properties electrical resistivity plasma conductivity ransport properties electrical resistivity plasma conductivity collisional plasmas conductivity ionospheric conductivity magnetohydrodynamic stability plasmas (physics) strongly coupled plasmas  plasma confinement USE plasma control  plasma control  UF plasma confinement RT ballooning modes
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	crop vigor defoliants defoliants defoliation Earth resources environments farm crops foliage food chain forests frost damage geobotany geotropism gravitropism gravitropism greenhouses halophiles herbicides heterotrophs hydroponics infestation lacunas leaves microspores mitra orchards organisms	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)  plasma arc spraying USE arc spraying  Plasma arc welding  GS welding  . fusion welding  . electric welding  arc welding  plasma arc welding  RT plasma arc cutting plasma torches plasmas (physics)  plasma arcs  USE plasma jets  plasma bubbles	strongly coupled plasmas theta pinch tokamak devices zeta pinch  Plasma conductivity GS electrical properties electrical resistivity plasma conductivity transport properties electrical resistivity plasma conductivity collisional plasmas conductivity ionospheric conductivity magnetohydrodynamic stability plasmas (physics) strongly coupled plasmas  plasma confinement USE plasma control  Plasma control  UF plasma confinement BT ballooning modes beta factor bumpy toruses
	crop vigor defoliants defoliants defoliation Earth resources environments farm crops foliage food chain forests frost damage geobotany geotropism gravitropism greenhouses halophiles herbicides heterotrophs hydroponics infestation lacunas leaves microorganisms microspores mitra orchards organisms petals	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)  plasma arc spraying  USE arc spraying  Plasma arc welding  GS welding  . usion welding  . usion welding  . usion welding  . plasma arc welding  RT plasma arc cutting plasma torches plasmas (physics)  plasma arcs  USE plasma jets  plasma bubbles  DEF Pockets of very low electron density in	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity GS electrical properties electrical resistivity plasma conductivity transport properties electrical resistivity plasma conductivity transport properties electrical resistivity plasma conductivity collisional plasmas conductivity ionospheric conductivity magnetohydrodynamic stability plasmas (physics) strongly coupled plasmas  plasma confinement USE plasma control  plasma control  UF plasma confinement RT ballooning modes beta factor bumpy toruses confinement
	crop vigor defoliants defoliation Earth resources environments farm crops foliage food chain forests frost damage geobotany geotropism gravitropism greenhouses halophiles herbicides heterotrophs hydroponics infestation lacunas leaves microorganisms microspores mitra orchards organisms petals phototropism	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)  plasma arc spraying  USE arc spraying  plasma arc welding  GS welding  electric welding  plasma arc welding  plasma arc welding  RT plasma arc cutting plasma torches plasmas (physics)  plasma arcs  USE plasma jets  plasma bubbles  DEF Pockets of very low electron density in the equatorial F region of the ionosphere in	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity GS electrical properties electrical resistivity plasma conductivity transport properties electrical resistivity plasma conductivity ransport properties electrical resistivity plasma conductivity  RT collisional plasmas conductivity ionospheric conductivity magnetohydrodynamic stability plasmas (physics) strongly coupled plasmas  plasma confinement USE plasma control  plasma control  UF plasma confinement RT ballooning modes beta factor bumpy toruses confinement  ∞ control
	crop vigor defoliants defoliants defoliation Earth resources environments farm crops foliage food chain forests frost damage geobotany geotropism gravitropism greenhouses halophiles herbicides heterotrophs hydroponics infestation lacunas leaves microorganisms microspores mitra orchards organisms petals phototropism	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)  plasma arc spraying  USE arc spraying  plasma arc welding  fusion welding  electric welding  rac servelding  plasma arc welding  USE plasma arc welding  RT plasma arc cutting plasma torches plasmas (physics)  plasma arcs  USE plasma jets  plasma bubbles  DEF Pockets of very low electron density in the equatorial F region of the ionosphere in which the plasma density is lower than the	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity GS electrical properties electrical resistivity plasma conductivity transport properties electrical resistivity plasma conductivity collisional plasmas conductivity ionospheric conductivity magnetohydrodynamic stability plasmas (physics) strongly coupled plasmas  plasma confinement USE plasma control  plasma control  UF plasma confinement RT ballooning modes beta factor bumpy toruses confinement control crossed field guns
	crop vigor defoliants defoliants defoliation Earth resources environments farm crops foliage food chain forests frost damage geobotany geotropism gravitropism gravitropism greenhouses halophiles heterotrophs hydroponics infestation lacunas leaves microorganisms microspores mitra orchards organisms petals phototropism phytochrome phytotrons	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)  plasma arc spraying  USE arc spraying  plasma arc welding	strongly coupled plasmas theta pinch tokamak devices zeta pinch  Plasma conductivity GS electrical properties . electrical resistivity . plasma conductivity transport properties . electrical resistivity . plasma conductivity collisional plasmas ∞ conductivity ionospheric conductivity magnetohydrodynamic stability plasmas (physics) strongly coupled plasmas  plasma confinement USE plasma control  UF plasma control  Plasma control  UF plasma confinement BT ballooning modes beta factor bumpy toruses confinement ∞ control crossed field guns crossed fields
	crop vigor defoliants defoliants defoliation Earth resources environments farm crops foliage food chain forests frost damage geobotany geotropism gravitropism greenhouses halophiles herbicides heterotrophs hydroponics infestation lacunas leaves microorganisms microspores mitra orchards organisms petals phototropism phytochrome phytotrons plankton	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)  plasma arc spraying  USE arc spraying  plasma arc welding  . fusion welding . electric welding arc welding plasma arc welding  RT plasma arc cutting plasma torches plasmas (physics)  plasma arcs  USE plasma jets  plasma bubbles  DEF Pockets of very low electron density in the equatorial F region of the ionosphere in which the plasma density is lower than the ambient density.  RT F region	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity GS electrical properties electrical resistivity plasma conductivity transport properties electrical resistivity plasma conductivity collisional plasmas conductivity ionospheric conductivity magnetohydrodynamic stability plasmas (physics) strongly coupled plasmas  plasma confinement USE plasma control  plasma control  UF plasma confinement ballooning modes beta factor bumpy toruses confinement  control crossed field guns crossed fields divertors (fusion reactors)
	crop vigor defoliants defoliants defoliants defoliants defoliation Earth resources environments farm crops foliage food chain forests frost damage geobotany geotropism gravitropism greenhouses halophiles herbicides heterotrophs hydroponics infestation lacunas leaves microorganisms microspores mitra orchards organisms petals phototropism phytochrome phytotrons plankton plant diseases	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)  plasma arc spraying  USE arc spraying  plasma arc welding	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity GS electrical properties electrical properties electrical resistivity plasma conductivity transport properties electrical resistivity plasma conductivity collisional plasmas conductivity ionospheric conductivity magnetohydrodynamic stability plasmas (physics) strongly coupled plasmas  plasma confinement USE plasma control  plasma control  plasma control  UF plasma confinement RT ballooning modes beta factor bumpy toruses confinement control crossed field guns crossed field guns crossed fields divertors (fusion reactors) electron-ion recombination
	crop vigor defoliants defoliants defoliants defoliation Earth resources environments farm crops foliage food chain forests frost damage geobotany geotropism gravitropism greenhouses halophiles herbicides heterotrophs hydroponics infestation lacunas leaves microorganisms microspores mitra orchards organisms petals phototropism phytochrome phytotrons plankton plant diseases plant growth regulators	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)  plasma arc spraying  USE arc spraying  plasma arc welding  fusion welding  electric welding  electric welding  plasma arc welding  USE plasma arc welding  plasma arc welding  plasma arc welding  RT plasma arc cutting plasma torches plasmas (physics)  plasma arcs  USE plasma jets  plasma bubbles  DEF Pockets of very low electron density in the equatorial F region of the ionosphere in which the plasma density is lower than the ambient density.  RT F region plasma density	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity GS electrical properties electrical resistivity plasma conductivity transport properties electrical resistivity plasma conductivity  rollisional plasmas conductivity ionospheric conductivity magnetohydrodynamic stability plasmas (physics) strongly coupled plasmas  plasma confinement USE plasma control  plasma control  UF plasma confinement RT ballooning modes beta factor bumpy toruses confinement control crossed field guns crossed fields divertors (fusion reactors) electron-ion recombination elliptical plasmas
	crop vigor defoliants defoliants defoliation Earth resources environments farm crops foliage food chain forests frost damage geobotany geotropism gravitropism greenhouses halophiles heterotrophs hydroponics infestation lacunas leaves microorganisms microspores mitra orchards organisms petals phototropism phytochrome phytotrons plankton plant diseases plant growth regulators plant physiology	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)  plasma arc spraying  USE arc spraying  USE arc spraying  plasma arc welding	strongly coupled plasmas theta pinch tokamak devices zeta pinch  Plasma conductivity GS electrical properties . electrical resistivity . plasma conductivity transport properties . electrical resistivity . plasma conductivity collisional plasmas  conductivity ionospheric conductivity magnetohydrodynamic stability plasmas (physics) strongly coupled plasmas  plasma confinement USE plasma control  Plasma control  UF plasma confinement RT ballooning modes beta factor bumpy toruses confinement  control crossed field guns crossed fields divertors (fusion reactors) electron-ion recombination elliptical plasmas helical inducers
	crop vigor defoliants defoliants defoliants defoliation Earth resources environments farm crops foliage food chain forests frost damage geobotany geotropism gravitropism greenhouses halophiles herbicides heterotrophs hydroponics infestation lacunas leaves microorganisms microspores mitra orchards organisms petals phototropism phytochrome phytotrons plankton plant diseases plant growth regulators	DEF Use of plasma torches for cutting hard materials at extremely high temperatures.  RT metal cutting metal working plasma arc welding plasma torches plasmas (physics)  plasma arc spraying  USE arc spraying  plasma arc welding  fusion welding  electric welding  electric welding  plasma arc welding  USE plasma arc welding  plasma arc welding  plasma arc welding  RT plasma arc cutting plasma torches plasmas (physics)  plasma arcs  USE plasma jets  plasma bubbles  DEF Pockets of very low electron density in the equatorial F region of the ionosphere in which the plasma density is lower than the ambient density.  RT F region plasma density	strongly coupled plasmas theta pinch tokamak devices zeta pinch  plasma conductivity GS electrical properties electrical resistivity plasma conductivity transport properties electrical resistivity plasma conductivity  rollisional plasmas conductivity ionospheric conductivity magnetohydrodynamic stability plasmas (physics) strongly coupled plasmas  plasma confinement USE plasma control  plasma control  UF plasma confinement RT ballooning modes beta factor bumpy toruses confinement control crossed field guns crossed fields divertors (fusion reactors) electron-ion recombination elliptical plasmas

limiters (fusion reactors) plasmas (physics) plasmas (physics) magnetic annular arc magnetic compression plasma density plasma electrodes GS density (number/volume) magnetic field configurations electrodes magnetic mirrors particle density (concentration) plasma electrodes magnetically trapped particles . plasma density hot-wire flowmeters mirror fusion atmospheric density plasmaguides pinch effect atom concentration plasmatrons plasmas (physics) cavitons zeta pinch reverse field pinch collisional plasmas rigid rotors (plasma physics) electron density (concentration) plasma engines electron-hole drops DEF Reaction engines using magnetically screw pinch ion density (concentration) accelerated plasma as a propellant. Plasma spheromaks magnetoplasmadynamics engines are types of electrical engines. stellarators magnetospheric electron density UF electromagnetic rocket engines tandem mirrors magnetospheric ion density engines thermal barriers (plasma control) tokamak devices magnetospheric proton density . rocket engines toroidal plasmas plasma bubbles . . electric rocket engines ... plasma engines transformers plasma drift TRAP program trapped magnetic fields plasma pressure .... magnetoplasmadynamic plasmas (physics) thrusters . . . . pulsed inductive thrusters proton density (concentration) zeta pinch space density . . . . pulsed plasma thrusters . . . two stage plasma engines . . . VASIMR (propulsion system) space plasmas plasma cooling strongly coupled plasmas DEF Temperature control of plasmas in controlled fusion operations. arc jet engines coaxial plasma accelerators plasma diagnostics cooling GS Fabry-Perot interferometers laser-induced breakdown electrothermal engines plasma cooling Hall thrusters controlled fusion spectroscopy microwave interferometers high temperature propellants magnetohydrodynamic stability ion engines plasmas (physics) **OPEN Project** magnetic nozzles magnetic flozzies
mercury ion engines
plasma power sources
plasmas (physics) temperature control plasmas (physics) resonance probes plasma core reactors space plasmas DEF Nuclear reactors utilizing fissionable pulsed jet engines plasmas (such as uranium fluoride) for the fuel. plasma diffusion resistojet engines GS nuclear reactors UF plasma dispersion RIT engines . plasma core reactors GS diffusion critical mass plasma diffusion plasma equilibrium ambipolar diffusion nuclear power plants DEF Condition of plasma in which the connuclear research stituent particles or fluid elements are unaccelerated or collectively at rest in steady flow.

RT ballooning modes colloidal generators plasmas (physics) diffusion waves radioactive wastes electron diffusion reactor cores beta factor gaseous self-diffusion ∞ reactors ion motion confinement reflectors electron-hole drops ionic diffusion waste disposal plasmas (physics) ∞ equilibrium equilibrium flow plasma diodes magnetic mirrors plasma currents GS electronic equipment magnetohydrodynamic stability Electric currents induced in plasmas diodes plasmas (physics) by injection of fast ion beams or some other . plasma diodes strongly coupled plasmas means. RT cesium diodes GS electric current plasmas (physics) plasma etching plasma currents DEF Removal of material by use of a fobeam currents plasma discharges controlled fusion cused plasma beam. eddy currents USE plasma jets etching plasma etching electric discharges plasma dispersion plasmas (physics) electrical resistivity USE plasma diffusion sputtering field aligned currents high current plasma display devices plasma flow ionospheric currents DEF Digital matrix flat panel devices in USE magnetohydrodynamic flow line current which small gas discharge plasma cells are low currents used as light emitting sources. plasma flux measurement magnetohydrodynamics GS display devices interferometry plasma-particle interactions plasma display devices magnetohydrodynamic flow plasmas (physics) RT ∞ devices microwave plasma probes ring currents gas ionization plasmas (physics) spheromaks glow discharges rotating plasmas toroidal plasmas speckle interferometry light sources plasmas (physics) plasma cylinders plasma focus plasma cylinders A highly compressed plasma. cylindrical plasmas DEF Movement in the ionosphere of ion and foci RT ∞ cylinders plasma concentration by electric field variations . plasma focus cylindrical bodies in the upper atmosphere. particles . cylindrical shells magnetohydrodynamic stability . charged particles plasma antennas . . energetic particles plasma density plasmaguides . . . plasmas (physics) plasma waves plasmas (physics) plasmas (physics) . . . . dense plasmas plasma focus . corpuscular radiation plasma decay plasma dynamics . . energetic particles snowplow effect GS decay plasma decay RT ∞ dynamics . . . plasmas (physics) . . . dense plasmas RT hydrodynamic equations afterglows electromagnetic wave transmission Langmuir turbulence . . plasma focus

magnetohydrodynamics

meshfree methods

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 experiment 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

### GS 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

particles

. charged particles

. plasma layers . . plasma sheaths

atmospheric stratification

∞ lavers

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 GS oscillations

. plasma oscillations

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).

UF plasma theory

GS rigid rotors (plasma physics)

. plasma physics

alpha plasma devices

**BBGKY** hierarchy

beta factor boundary layer plasmas

cavitons

controlled fusion

electron runaway (plasma physics) grand unified theory

Hall accelerators instantons

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

cavitons

cyclotron resonance electromagnetic interactions electron cyclotron resonance plasmas (physics) resonance lines

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.

GS 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

particles GS

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

flame spraying HVOF thermal spraying metal matrix composites

plasmas (physics) sprayed coatings

plasma stability

USE magnetohydrodynamic stability

# plasma temperature

temperature GS

### 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

∞ interactions

plasma-particle interactions particle interactions

plasmas (physics)

wave propagation

plasma-particle interactions plasma interactions

plasma-particle interactions

beam injection beam plasma amplifiers charge exchange dusty plasmas electron phonon interactions electron plasma

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particle theory		0	collisional plasmas	plasma	a dynamics
plasma currents			strongly coupled plasmas	plasma	a engines
plasmas (physics)			collisionless plasmas		a equilibrium
relativistic electron	beams		cosmic plasma		a etching
relativistic plasmas			· · · · · · · · · · · · · · · · · · ·	·	a flux measurement
			ylindrical plasmas		
SPHINX	-41	0	lense plasmas		a frequencies
wave-particle intera	ctions		plasma focus		a generators
			strongly coupled plasmas	plasma	a guns
plasmapause				plasma	a heating
SN (LIMITED TO EARTH	S ATMOSPHERE)		electron plasma	plasma	a interaction experiment
RT cosmic plasma	o / trivicor rierte)	€	electron-positron plasmas	·	a interactions
•	aro.	6	elliptical plasmas		a jet synthesis
Earth magnetosph	ле	h	elium plasma		
ionopause			igh temperature plasmas		a jet wind tunnels
plasma clouds			nydrogen plasma	plasma	a jets
plasma oscillations			, , ,	plasma	a layers
plasma physics			deuterium plasma	plasma	a lifetime
plasmas (physics)		1	aser plasmas	plasma	
		r	netallic plasmas	·	
solar wind			cesium plasma	* .	a oscillations
			uranium plasmas	* .	a physics
plasmas (physics)				plasma	a pinch
SN (LIMITED TO COMPL	ETELY IONIZED		nicroplasmas	plasma	a potentials
MATTER; FOR PART	ALLY IONIZED	r	itrogen plasma		a power sources
GASES SEE IONIZEI		r	onequilibrium plasmas		a pressure
DEF Electrically condu		r	onuniform plasmas		
prised of neutral particles, ic			oxygen plasma		a probes
				plasma	a propulsion
free electrons but which, tal			arefied plasmas	plasma	a pumping
electrically neutral. Plasmas			elativistic plasmas	plasma	a radiation
terized by relatively large	intermolecular dis-	r	otating plasmas	' .	a resonance
tances, large amounts of e	nergy stored in the	8	emiconductor plasmas		
internal energy levels of the			pace plasmas		a sheaths
presence of plasma sheaths			solar wind	* .	a slabs
				plasma	a spectra
the plasma. Plasmas are so			stellar winds	plasma	a spraying
as a fourth state of matter. U	sed for electrostatic	0	lusty plasmas		a temperature
plasma, ionized plasma, ma	gnetoionic plasma,	8	pherical plasmas	· ·	a torches
magnetoplasmas, and plasr	noids.	t	hermal plasmas	·	
UF electrostatic plasm			oroidal plasmas		a turbulence
	2			plasma	a waves
ionized plasmas			plasma devices	plasma	adynamic lasers
magnetoionic plası	na	beam	plasma amplifiers	·	a-electromagnetic interaction
magnetoplasmas		blacko	ut (propagation)		aguides
plasmoids		chemi	cal elements		
GS particles			istion physics		a-particle interactions
'				plasma	apause
. charged particles		core fl		plasma	asphere
energetic particl			s plasma accelerator	plasma	atrons
plasmas (phy	ics)	Debye	length		on belts
argon plasma		deuter	on irradiation		
beta particles		deuter	ons		ed gas dynamics
boundary laye			ismatrons	Scylla	
	ii piasirias			solar p	ohysics
cold plasmas		electri		space	charge
collisional pla		electro	on energy	SPHIN	
strongly cou	pled plasmas	gases			magnetic fields
collisionless p		high te	emperature fluids		
cosmic plasm			d gases		g modes (plasmas)
			a guses		al dissociation
cylindrical pla		ions		thermo	odynamics
dense plasma	ıS	Kelvin	-Helmholtz instability	thermo	onuclear reactions
plasma focu	S	Landa	u factor		age plasma engines
strongly cou	pled plasmas	laser f	usion	two su	age plasma engines
electron plasi		laser r	plasma interactions	nlaamaa in ana	as payload
		light ic		plasmas-in-spa	
electron-posit				USE AMPS	6 (satellite payload)
elliptical plasi			le equations		
helium plasm	ì	low de	nsity research	plasmasphere	
high tempera	ure plasmas	magne	etic compression	DEF Envelo	ope of highly ionized gases sur-
hydrogen pla	sma .	magne	etohydrodynamic flow		arth or another planet.
deuterium p			etohydrodynamic stability		pheric ionization
laser plasmas			etohydrodynamics		
					osphere
metallic plasr			etoionics		atmosphere
cesium plas			vave plasma probes		magnetosphere
uranium pla			I gases	IMAGE	E satellite
microplasmas		Onsag	er phenomenological coefficient	OPEN	Project
nitrogen plasi	na	∞ physic	S		as (physics)
nonequilibriur			a acceleration	·	atmosphere
nonuniform p	aemae		a accelerators	uppei	aunosphere
oxygen plasn			a arc cutting	plasmatrons	
rarefied plasr		plasm	a arc welding	GS ion so	urces
relativistic pla	smas	plasma	a chemistry	. plası	matrons
rotating plasn			a clouds		plasmatrons
semiconducto			a composition		a generators
			a compression		
space plasma	.3				matrons
solar wind			a conductivity		plasmatrons
stellar winds		plasma	a control	RT plasma	a electrodes
dusty plasma			a cooling		a guns
spherical plas			a core reactors	plasma	
thermal plasn			a currents		a propulsion
toroidal plasn			a cylinders	plasma	as (physics)
corpuscular radia	ion	plasm	a decay	•	
energetic particl			a density	plasmids	
plasmas (phy			a diagnostics	(added Febr	ruany 2002)
argon plasma			a diffusion		eplicating circular molecules of
beta particles			a diodes		found in a variety of bacterial,
bourtdary lavi	er plasmas	plasm	a display devices	archaeal, funga	al, algal and plant species.
boundary lay	er plasmas	plasma plasma	a display devices a drift	archaeal, funga RT cloning	al, algal and plant species.

	deoxyribonucleic acid		Lintogral		thormoploaticity
	gene therapy		J integral kink bands		thermoplasticity viscoplasticity
	genetic engineering		plane strain		yield point
	genetic engineering		Saint Venant principle	RT	cohesion
plasmoi	ds		shear creep	111	cold flow tests
USE	plasmas (physics)		∞ slip		ductility
002	plasmas (physics)		strain distribution		
plasmo	lvsis				elastic properties
RT	cells (biology)		stress propagation		fatigue (materials)
	cytology		stress relaxation		flexibility
	dehydration		stress-strain relationships		hardness
	deriyaration		stretching		influence coefficient
plasmo	ns		structural strain		method of characteristics
SN	(EXCLUDES ORGANIC CYTOPLASMIC		superplastic forming		plastic bodies
	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
	plasmons		work softening		structural stability
RT	electron gas		yield strength		
	excitons			plastic	
	magnetohydrodynamic stability	plastic	fibers	GS	shells (structural forms)
	magnons	(ada	led June 1995)		. plastic shells
	phonons	GS	fibers	RT	cylindrical shells
	plasma frequencies		. plastic fibers		elastic shells
	plasma oscillations	RT	fiber optics		elastoplasticity
	polarons		glass fibers		plastic bodies
	•		optical fibers		reinforced shells
	surface plasmon resonance		plastic properties		shell stability
plasters			plastics		,
	plasters		waveguides	plastic	tanes
GS	•		waveguides	RT	adhesives
	. gypsum	plastic	filma		magnetic tapes
-	. paraplasts				• tapes
RT	casts	USE	polymeric films	~	apes
	grout			plantia i	violdina
	molding materials	plastic		plastic y	
	mortars (material)	GS	fluid flow	USE	plastic deformation
	pastes		. plastic flow		
			Tresca flow	plasticity	
plastic	aircraft structures	RT	creep properties	USE	plastic properties
GS	aircraft structures		∞ flow		
	. plastic aircraft structures		internal friction	plastici	
RT	aircraft construction materials		rheology	UF	casting solvents
	aircraft survivability		shear flow		elasticizers
	boron-epoxy composites		steady state creep	GS	additives
	glass fiber reinforced plastics		stress relaxation		. plasticizers
	plastics			RT	case bonded propellants
	piastics		superplasticity viscoelasticity		coatings
nlastic	anisotropy		,		Domino propellants
•	• •		viscoplasticity		esters
GS	anisotropy				plastic propellants
	. plastic anisotropy		memory		propellant additives
ОТ	elastic anisotropy	RT	shape memory alloys		Skydrol (trademark)
RT	viscoplasticity		stress relaxation		
-14:-	h a dia a				solid propellants
plastic		plastic			solid rocket binders
RT	beams (supports)	SN	(STRUCTURAL PLATES EXHIBITING		surfactants
0	o bodies	00	PLASTIC PROPERTIES)		triacetin
	cylindrical bodies	GS			
	elastic bodies		. plates (structural members)	plastics	
	elastic plates		. 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		ished state, and at some stage in their
	rigid structures				cture or processing into finished articles
		plastic	propellants	can be	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 countigo		monopropellants		. polystyrene
plastic	deformation		plasticizers		styrofoam (trademark)
UF	Luder bands		polybutadiene tetranitramine		. polytetrafluoroethylene
Ji	plastic yielding		pyrotechnics		teflon (trademark)
	strain softening		p <sub>1</sub> .3tooiiiioo		. polyvinyl alcohol
Ce		plantin	nronarties		
GS	deformation		properties		. polyvinyl chloride
	plastic deformation	DEF	The tendency of a loaded body to		. polyvinyl fluoride
HI∘	∘ 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	UF	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
	friction stir welding		superplasticity		vinyl copolymers
			superplactionly		viiiyi oopoiyiilolo

	polyester resins	of great exte	ent and elevation; specifically, exten-		reinforced plates
	polyether resins		egions considerably elevated (more		thick plates
	PEEK		00 meters in altitude) above the ad-		
				БТ	thin plates
	polymethyl methacrylate	jacent cour	itry or above sea level. They are	RT	clamped structures
	thermoplastic resins	commonly	imited on at least one side by an		girders
	PEEK		cent, have a flat or nearly smooth		metal sheets
	quinoxalines		are often dissected by deep valleys		orthotropism
	•				•
	thermoplastic films		nted by high hills or high mountains,	∞	o plates
	thermosetting resins	and have a	large part of their total surface at or		Reissner theory
	epoxy resins	near the s	ummit level. Plateaus are usually		slabs
					Sidabo
	phenolic epoxy resins		have more noticeable relief than		
	furan resins	plains (they	often represent elevated plains),	plates (	tectonics)
	polyamide resins	and are usu	ally higher and more extensive than	DEF	Rigid divisions of the outer surface of
	Kevlar (trademark)		y may be tectonic, residual, or vol-	the Far	th (lithosphere) which moves over a
		canic in orio			layer (asthenosphere). The plates are
	Nylon (trademark)				
	phenolic resins	GS lar	idforms	about 10	00 km thick, and the continents, which
	micarta	. te	erraces (landforms)	are 40 k	km thick, rest on the plates and moves
	phenolic epoxy resins		plateaus	with the	
DΤ					
RT	acrylonitriles		. Allegheny Plateau (US)	RT	Earth crust
	aramid fibers		. Colorado Plateau (US)		Earth mantle
	boron reinforced materials		. Great Basin (US)		Earth planetary structure
	o construction materials		. mesas		earthquakes
	elastomers		buttes		geological faults
	fluoropolymers		. piedmonts		geophysics
	furans		Central Piedmont (US)		lithosphere
	injection molding	RT ap			neotectonics
	ion exchange resins		osion		sea floor spreading
	Kapton (trademark)	hic	hlands		structural properties (geology)
~	∘ materials science	∞ pe			subduction (geology)
	molding materials	•	ins		tectonics
	organic materials	str	atigraphy		
	petroleum products			∞ platforn	ne
	plastic aircraft structures	platelets		SN	(USE OF A MORE SPECIFIC TERM IS
	plastic fibers	RT blo	ood cell count		RECOMMENDEDCONSULT THE TERMS
٥	∘ polymers	blo	od coagulation		LISTED BELOW)
				RT	Automatic Universal Orbiting Stations
	sheet molding compounds		od groups		data collection platforms
	tetrahydrofuran	his	tology		flight mechanics
	thioplastics	thr	omboplastin		•
			ombopiaoum		floors
					flying platforms
plastids		platens			guidance (motion)
(add	ed August 2004)	RT ∞ pla	tes		
	Self-replicating cytoplasmic organelles				inertial platforms
		pre	esses		landforms
	and algal cells that contain pigments and	∞ pre	essing		launching pads
may sy	nthesize and accumulate various sub-	nu nu	nches		
stances	. Plastids are used in phylogenetic stud-	•			offshore platforms
	. I labilab are about in phylogoricile etaa		ns (presses)		slabs
es.		rol	lers		solettas
GS	organelles	too	ols		
	. plastids				space platforms
DT	•				space stations
RT	algae	plates			stabilized platforms
	cells (biology)	SN (U	SE OF A MORE SPECIFIC TERM IS		
	cytology	RF.	COMMENDEDCONSULT THE TERMS		supports
			TED BELOW)		synchronous platforms
	cytoplasm		rrugating		
	pigments		0 0	ploting	
	plants (botany)	ais	ks (shapes)	plating	
	p ( , )	fla	plates	GS	plating
		me	etal coatings		. electroplating
plastiso	ols				
DEF	A suspension of a finely divided poly-		etal plates		. flame plating
	a plasticizer.	mi	crochannel plates		. ion plating
		pa	nels		. nickel plate
GS	mixtures	P	rallel plates	RT	anodic stripping
	. dispersions			п	
	plastisols		otographic plates		cathodic coatings
		pla	tens		cladding
	smoke	I ·	ites (structural members)		deposition
RT	colloids		,		
	composite propellants		ting		deposits
		rec	tangular plates		electrodeposition
	double base propellants		atter plates (optics)		electroless deposition
	resins				finishes
			ck plates		
PLAT s	vetem	thi	n plates		laminates
		tra			metal coatings
UF	pilot landing aid television system	lia	ys		
GS	communication equipment				metal finishing
	. PLAT system	plates (stru	ictural members)		metallizing
			uctural members	~	plates
	telecommunication			•	
	. PLAT system	. р	lates (structural members)		protective coatings
	television systems		anisotropic plates		substrates
			annular plates		thin films
	. PLAT system				
RT	landing aids		cantilever plates	_	
	∘ systems		circular plates	platinur	n
	0,0.0110		corrugated plates	GS	chemical elements
	. 0			ao	
olate (n	netal)		elastic plates		platinum
	metal plates		end plates		platinum isotopes
552	<b>P.2</b>		flat plates		metals
plate th	eory		girder webs		. transition metals
RT	flat plates		metal plates		platinum
			. boiler plate		platinum isotopes
	Mindlin plates			DT	
	structural analysis		Mindlin plates	RT	platinum black
۰	∘ theories		orthotropic plates		
	Trefftz method		perforated plates	nlatinur	m alloys
	HEMIZ INCUIUU				
			plastic plates	GS	alloys
plateau	S		porous plates		platinum alloys
DEF	Broadly, and comparatively flat areas		rectangular plates	RT	iridium alloys

	rhodium alloys	∞	water intakes		plowing
platinur	n black	plothye	mography	PLSS	
GS	particles		mography bioengineering	USE	portable life support systems
	. metal particles	ao	. biometrics		,
	metal powder		. plethysmography	plug no	
	platinum black		electroplethysmography	GS	exhaust nozzles
	. powder (particles) . metal powder			DT	. plug nozzles
	platinum black	pleurae		RT	aerospike engines annular nozzles
RT	catalysts	GS	anatomy		conical nozzles
	platinum		. pleurae		nozzle geometry
			membranes	~	nozzles
	n compounds	DT	. pleurae		rocket nozzles
GS	platinum compounds	RT	lungs respiratory system		spike nozzles
DT .	. platinum oxides		respiratory system		
	chemical compounds Group 8 compounds	plaurati	n	pluggin	
	metal compounds	pleuroti GS	drugs	UF	clogging
	eta. eepea.i.ae	do	. antibiotics	RT	agglomeration blocking
platinur	n isotopes		pleurotin		caulking
GS	chemical elements	RT	staphylococcus		closing
	. nuclides				closures
	isotopes	plexiglas	ss (trademark)		constrictions
	platinum isotopes	USE	polymethyl methacrylate		fouling
	. platinum platinum isotopes				plugs
	metals	plies			sealing
	. transition metals	USE	layers		seals (stoppers)
	platinum		•		
	platinum isotopes	∞ plots		plugs	(EVCLUDES SPARKRILLISS OR
	·	SN	(USE OF A MORE SPECIFIC TERM IS	SN	(EXCLUDES SPARKPLUGS OR ELECTRICAL CONNECTORS)
	n oxides		RECOMMENDEDCONSULT THE TERMS	GS	seals (stoppers)
GS	chalcogenides	RT	LISTED BELOW) charts		. plugs
	. oxides		display devices	RT	blocking
	metal oxides platinum oxides		plotters		closures
	platinum compounds		plotting		labyrinth seals outlets
	. platinum oxides		sites		plugging
					stopping
playas		plotters			
GS	land	UF	plotting instruments	Plum B	rook Reactor
	. plains	GS	recording instruments	GS	nuclear reactors
	playas		. plotters		. liquid cooled reactors
	landforms	DT	x-y plotters		water cooled reactors
	. plains playas	RT	computer graphics digital to analog converters		Plum Brook Reactor
RT	deserts		display devices		. nuclear research and test reactors
	lakes		navigation aids		Plum Brook Reactor
			peripheral equipment (computers)	plumag	9
playbac		∞	plots		birds
RT	magnetic tapes		plotting		
~	recorders		position indicators	plumbai	ne
	recording		printers	USE	lead compounds
~	records tapes		remote consoles		metal hydrides
~	video disks				
	Tidos diene	plotting		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 condensates
			plotters		pollution transport
	s cluster		printing		shock waves
GS	celestial bodies . star clusters		recording		
	open clusters			plunger	'S
	Pleiades cluster	plotting i	instruments	RT	mixers
RT ∝	clusters		plotters		pistons
	Taurus constellation				rams (presses)
		plowed t	fields		rams (pumps)
	ene epoch		farmlands		
	ed May 2001)			Pluto (p	
	Geologic epoch of the Quaternary pe-	plowing		GS	celestial bodies
	ending from about two million years ago		cultivation		. dwarf planets Pluto (planet)
	10,000 years ago and covering the last		. plowing		. trans-Neptunian objects
ice age. GS	Cenozoic Era	RT	agriculture		Pluto (planet)
30	. Quaternary period		farm crops	RT	Charon
	. Pleistocene epoch		farmlands		Hydra
RT	geochronology		grasslands		New Horizons mission
	Holocene epoch		planting		Nix
			plants (botany)		planets
	chambers		plows sod		Pluto atmosphere
RT	air intakes		tractors	D	
~	chambers				mosphere
	ducts	plows		GS	environments . extraterrestrial environments
	exhaust systems fuel systems	piows RT	agriculture		planetary environments
	intake systems	111	mixers		planetary atmospheres
	manifolds		planting		Pluto atmosphere
			The state of the s		•

RT	Pluto (planet)	transuranium elements	. plutonium compounds
Pluto re	eactors	plutonium plutonium isotopes	<b>plutonium fluorides</b> halogen compounds
GS	nuclear reactors	plutonium 239	. fluorine compounds
ao	. Pluto reactors	piutomum 239	fluorides
RT	nuclear ramjet engines	plutonium 240	metal fluorides
	nuclear rocket engines	GS chemical elements	plutonium fluorides
	supersonic low altitude missile	. actinide series	. halides
	•	transuranium elements	fluorides
Pluto s		plutonium	metal fluorides
	ed July 1995)	plutonium isotopes	plutonium fluorides
GS	celestial bodies	plutonium 240	metal halides
	. natural satellites	. nuclides	metal fluorides
	Pluto satellites Charon	isotopes	plutonium fluorides
	Hydra	radioactive isotopes	plutonium isotopes
	Nix	transuranium elements plutonium	GS chemical elements
		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	.1.1.1044	plutonium 244
	plutonium 240 plutonium 241	plutonium 241	. nuclides
	plutonium 244	GS chemical elements . actinide series	isotopes 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 . actinide series	metals	plutonium
	transuranium elements	. actinide series	plutonium isotopes
	plutonium	transuranium elements plutonium	plutonium 238
	plutonium isotopes	plutonium	plutonium 239 plutonium 240
	plutonium 238	plutonium 241	plutonium 241
	plutonium 239	platomani 211	plutonium 244
	plutonium 240	plutonium 244	<b></b>
	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
	000	plutonium isotopes	chalcogenides
plutoni	chemical elements	plutonium 244	. oxides
GS	. actinide series	. nuclides	metal oxides
	transuranium elements	isotopes	<b>plutonium oxides</b> RT ceramic nuclear fuels
	plutonium	radioactive isotopes transuranium elements	RT ceramic nuclear fuels mixed oxides
	plutonium isotopes	plutonium	mixed oxides
	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	at the state of the state of	heavy water reactors
	. actinide series	plutonium alloys	plutonium recycle test reacto
	transuranium elements	GS alloys	. nuclear power reactors
	plutonium plutonium isotopes	. <b>plutonium alloys</b> RT nuclear fuel elements	. plutonium recycle test reactor . nuclear research and test reactors
	plutonium 238	nuclear fuels	. plutonium recycle test reactor
	piatomam 200	nacical facis	. water moderated reactors
plutoni	um 239	plutonium carbides	plutonium recycle test reactor
GS	chemical elements	USE plutonium compounds	,,,
	. actinide series	·	pluviographs
	transuranium elements	plutonium compounds	USE rain gages
	plutonium	UF plutonium carbides	recording instruments
	plutonium isotopes	GS actinide series compounds	
	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 ∞ metal compounds	RT alignment composite materials
	plutonium plutonium isotopes	∞ metal compounds nuclear fuels	interlayers
	plutonium 239	Hadical Iucio	laminates
	metals	plutonium fluorides	∞ layers
	. actinide series	GS actinide series compounds	multilayer insulation
		•	-

					000.4
٥	orientation		pressure measurement		OGO-4
	plywood				OGO-6
	positioning	pneuma	tic reset		OGO-C
	sandwich structures	USE	pneumatic control	RT	Agena B rocket vehicle
	stacking sequence (composite				EGO
		pneuma	atics		Lao
	materials)		The branch of physics dealing with the	BOCO	offeete
	substrates			POGO	
			ical properties of gases with particular	GS	vibration
plywoo	4	emphas	is on gas statics in closed systems.		. POGO effects
		GS	mechanics (physics)		vibration effects
GS	composite materials		. fluid mechanics		. POGO effects
	. plywood		pneumatics	RT.	∞ effects
	composite structures	RT	flow theory	nı (	
	. laminates	п			longitudinal stability
	plywood		fluid power		
	• •		fluidics	Pohlha	usen method
	wood		gases	UF	Pohlhausen solution
	. plywood	۰	hydraulics	GS	analysis (mathematics)
RT	ply orientation		, araanoo	0.0	. numerical analysis
	trees (plants)	pneumo	paranhe		
	wooden structures				approximation
	Woodon diradiared	USE	pneumography		Pohlhausen method
				RT	laminar boundary layer
PML (el	lectromagnetism)	pneum	ography		∞ methodology
	ed July 1998)	UF	pneumographs		velocity distribution
		RT	biotelemetry		viscous flow
USE	perfectly matched layers		lungs		VISCOUS HOW
				5	
p-n jun	ctions	۰	measurement	Pohlha	usen solution
			radiography	USE	Pohlhausen method
UF	n-p junctions				
GS	semiconductor junctions	pneumo	onia	poikilo	thermia
	. p-n junctions	GS	diseases	UF	cold blooded animals
RT o	⇒ junctions	40	. respiratory diseases		
	SIS (semiconductors)			GS	animals
	Sio (serilicoridacions)		pneumonia		. poikilothermia
		RT	acquired immunodeficiency syndrome	RT	amphibia
pneuma	atic circuits		bacterial diseases		body temperature
GS	circuits		congestion		fishes
do			viral diseases		
	pneumatic circuits		viidi diseases		invertebrates
	pneumatic equipment				reptiles
	. pneumatic circuits	pneum	othorax		
RT	fluidics	RT	diseases	Poinca	re problem
	valves		lungs	RT a	∞ problems
	vaives		medical science	• • • • • • • • • • • • • • • • • • • •	probleme
			modical colonico	Doingo	ro anharas
pneuma	atic control	ppiatida	0		re spheres
UF	pneumatic reset	pnictide		GS	symmetrical bodies
	,	USE	Group 5A compounds		. bodies of revolution
RT	automatic control				spheres
	automatic control valves	p-n-p ju	ınctions		Poincare spheres
	compressed gas		semiconductor junctions	DT	
0	∘ control	40		RT	geometry
_		БТ	p-n-p junctions		
	control equipment	RI ∘	∘ junctions	point d	lefects
	control valves			GS	defects
	controllers	p-n-p-n	junctions		. crystal defects
	electronic control	GS	semiconductor junctions		point defects
	engine control		. p-n-p-n junctions		
		DT.	iunctions		vacancies (crystal defects)
	fluid power	nı ∘			Frenkel defects
	fluidics		latch-up		antisite defects
	hydraulic control		thyristors	RT	crystal dislocations
	remote control		•		impurities
		Pockels	effect		
			birefringence		surface defects
pneuma	atic equipment	00L	bireiringenee		
GS	pneumatic equipment			point ii	
	. gas valves	pocket		GS	impact
	. pneumatic circuits	GS	animals		. point impact
	. pneumatic probes		. vertebrates	RT	electron impact
-	•		mammals	• • • • • • • • • • • • • • • • • • • •	hypervelocity impact
RT	air bag restraint devices		rodents		
	compressed air		mice		ion impact
	cushions				proton impact
۰	∘ equipment		pocket mice		
	fluid amplifiers	RT	rats	point m	natching method (mathematics)
				USE	boundary value problems
	fluid power	pods (e	external stores)		,,
	fluid switching elements	GS	external stores	point s	ources
	fluidics	40		•	
	gas generators		. pods (external stores)	GS	radiation sources
	Golay detector cells	RT	cowlings		. point sources
	,		external store separation	RT	diffuse radiation
	inflatable structures		fuel tanks		∞ energy sources
	servocontrol		nacelles		
	servomechanisms				Huygens principle
	shock absorbers		wing-fuselage stores		light sources
_	∘ systems				spherical waves
0		POGO			
	valves	UF	Polar Orbit Geophysical Observatory	point s	pread functions
		GS	artificial satellites		Mathematical functions involved in im
nneum	atio probos	us			
	atic probes		. geophysical satellites		ocessing.
GS	measuring instruments		OGO	GS	functions (mathematics)
	. temperature measuring instruments		POGO		point spread functions
	pneumatic probes		OGO-4	RT	image processing
	pneumatic equipment		OGO-6		go p. 00000g
				noint t	o point communication
	pneumatic probes		OGO-C		o point communication
RT	flow measurement		observatories	GS	communicating
	high temperature gases		. geophysical observatories		point to point communication
	mass flow rate		Ĭ OĠO		NASCOM network

...POGO

nozzle flow

RT radio communication

telecommunication toxicity spherical coordinates Westar satellites wideband communication polar cusps Poisson density functions poisson process functions (mathematics) RT aeronomy ∞ cusps pointers Poisson density functions Earth magnetosphere USE dials statistical analysis
. Poisson density functions geomagnetic latitude geomagnetic tail pointing control systems continuity (mathematics) geomagnetism pointing control systems geophysics discrete functions . annular suspension and pointing interplanetary space exponential functions system lines of force sorting algorithms RT ∞ control magnetic field configurations entry guidance (STS) flight control magnetic fields Poisson equation magnetopause GS analysis (mathematics) guidance (motion) planetary magnetic fields space flight . real variables polar regions spacecraft control . . differential equations Polar/GGS spacecraft . . . partial differential equations ∞ systems space plasmas Poisson equation classical mechanics ∞ points polar gases electrostatics (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN GS gases ∞ equations . molecular gases isentrope . . polar gases nonpoint sources Laplace equation carbon dioxide lasers points (mathematics) vortex in cell technique gas composition position (location) gas discharges poisson process gas dynamics points (mathematics) USE Poisson density functions gas lasers geometry stochastic processes gas masers . Euclidean geometry polarization (charge separation) . . points (mathematics) Poisson ratio ... fixed points (mathematics) GS mechanical properties polar ionosphere beacon .. inflection points Poisson ratio USE Beacon satellites RT foci ratios loci Poisson ratio polar meteorology naked singularities Airy function meteorology GS ∞ points compressive strength polar meteorology reciprocal theorems aerology elastic properties singularity (mathematics) fiber strength climatology modulus of elasticity hydrology Poiseuille flow nu factor ice reporting USE laminar flow stress-strain diagrams polar navigation tensile strength GS navigation ∞ poisoning (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) . polar navigation SN Polaire satellite air navigation celestial navigation USE D-2 satellites benzene poisoning dead reckoning beryllium poisoning **Poland** digital navigation carbon monoxide poisoning nations GS inertial navigation carbon tetrachloride poisoning **Poland** Ioran Central Europe hydrocarbon poisoning Europe Polar Orbit Geophysical Observatory intoxication USE POGO lead poisoning polar auroras narcosis USE auroras polar orbits poisoning (reaction inhibition) orbits toxic diseases . polar orbits polar cap absorption toxic hazards GS energy absorption radiation absorption circular orbits Earth orbits poisoning (reaction inhibition) elliptical orbits . . electromagnetic absorption equatorial orbits RT control rods polar cap absorption neutron absorbers low Earth orbits . thermal absorption nuclear reactions lunar orbits polar cap absorption ∞ poisoning lunar satellites  $RT \, \infty \, absorption$ radioactive wastes planetary orbits space station polar platforms polar caps TIROS satellites poisoning (toxicology) Antarctic regions twenty-four hour orbits USE toxic diseases Arctic regions ∞ caps Polar Plasma Laboratory Earth (planet) poisons (added January 2001) Earth cryosphere GS poisons USE Polar/GGS spacecraft ice . curare Mars (planet) . endotoxins polar platforms (space stations) planetary cryospheres . pesticides USE space station polar platforms . . insecticides . . . Carbamates (tradename) polar coordinates polar radio blackout electromagnetic interference . urethanes DEF In a plane, a system of curvilinear coordinates in which a point is located by its . . . DDT . radio frequency interference distance r from the origin (or pole) and by the . . . dieldrin . . blackout (propagation) ... phenothiazines angle theta which a line (radius vector) joining ... polar radio blackout . phosgene the given point and the origin makes a fixed auroral zones . strychnine reference line, called the polar axis. In three ionospheric propagation

dimensions, short for space polar coordinates.

polar coordinates

astronomical coordinates

polar regions

high latitudes

. . Antarctic regions

regions . polar regions

UF

coordinates

planispheres

Smith chart

GS

environment effects environment pollution

environmental surveys

hazardous materials

nonpoint sources

pollution

. . . McMurdo sound Solar Maximum Mission . plasmons . Ross ice shelf . . Arctic regions polarimetry . . subarctic regions The sign of the electric discharge as-GS optical measurement RT auroral zones sociated with a given object, as an electrode or polarimetry climatology . astronomical polarimetry RT ∞ dipoles geography optical activity permafrost electric charge optical measuring instruments polar cusps electric fields photometry magnetic fields polynyas polarimeters magnetic poles temperate regions polarization (waves) polarization (charge separation) timberline polarization (spin alignment) Polaris A1 missile quadrupoles polar substorms GS missiles magnetic disturbances . ballistic missiles GS ∞ polarization . . intermediate range ballistic missiles . magnetic storms (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN . polar substorms . . . polaris missiles . Polaris A1 missile storms . magnetic storms . surface to surface missiles The state of electromagnetic radiation . fleet ballistic missiles when transverse vibrations take place in some . . polar substorms Polaris A1 missile regular manner, e.g., all in one plane, in a circle, . . intermediate range ballistic missiles in an ellipse, or in some other definite curve. polar wandering (geology) . . . polaris missiles With respect to particles in an electric field, the DEF Migration during geologic time of the .... Polaris A1 missile displacement of the charge centers within a Earth's poles of rotation and magnetic poles. particle in response to the electric force acting Also known as polar migration. Used for Chanthereon. The response of the molecules of a Polaris A2 missile dler motion. paramagnetic medium (such as iron) when sub-GS missiles UF Chandler motion jected to a magnetic field. ballistic missiles RT Chandler wobble antiferroelectricity . . intermediate range ballistic missiles Earth axis bipolarity . . . polaris missiles ∞ Earth motion linear polarization .... Polaris A2 missile Earth orientation magnetization . surface to surface missiles geodesy optical polarization . . fleet ballistic missiles nutation Overhauser effect Polaris A2 missile periodic variations photoelastic analysis . . intermediate range ballistic missiles precession polarization (charge separation) ... polaris missiles polarization (spin alignment) . . . . Polaris A2 missile Polar/GGS spacecraft polarization (waves) (added January 2001) polarized radiation Polaris A3 missile One of two NASA spacecraft in the GS missiles Global Geospace Science (GGS) initiative and polarization (charge separation) . ballistic missiles part of the International Solar Terrestrial Physics charge separation polarization (charge separation) . . intermediate range ballistic missiles (ISTP) program. Polar (Polar Plasma Labora-GS . . . polaris missiles tory) measures solar wind entry, ionospheric . . . . Polaris A3 missile dielectric polarization output, and the depositions of energy into the electrolytic polarization . surface to surface missiles neutral atmosphere at high latitudes. Imaging charge distribution . . fleet ballistic missiles instruments make possible the measurement of charge transfer . Polaris A3 missile visible, ultraviolet, and X-ray spectra of the polar deactivation . . intermediate range ballistic missiles caps. The spacecraft was launched in February depolarization . . . polaris missiles electrets .... Polaris A3 missile UF Polar Plasma Laboratory electric charge GS artificial satellites electric moments polaris missiles . geophysical satellites electrode film barriers GS missiles Polar/GGS spacecraft electromigration . ballistic missiles . scientific satellites Hall effect . . intermediate range ballistic missiles . Polar/GGS spacecraft ionospheric drift polaris missiles auroras magnetization . . . . Polaris A1 missile Earth ionosphere overvoltage Polaris A2 missile Earth magnetosphere polar gases ... Polaris A3 missile geomagnetism polarity . surface to surface missiles plasma waves ∞ polarization . . intermediate range ballistic missiles polar cusps pyroelectricity solar terrestrial interactions ... polaris missiles ∞ separation . Polaris A1 missile solar wind Tafel law Polaris A2 missile space plasmas Polaris A3 missile space weather polarization (spin alignment) multistage rocket vehicles Wind/GGS spacecraft RT alignment anisotropy solid propellant rocket engines XM-33 engine deactivation polarimeters DEF Instruments for determining the degree magnetic properties Polaris submarines of polarization of electromagnetic radiation, spemagnetization USE guided missile submarines cifically the polarization of light. Used for spec- ∞ orientation tropolarimeters. polarity polariscopes spectropolarimeters polarization Instruments for detecting polarized rameasuring instruments rotation diation and investigating its properties.

GS measuring instruments
. polariscopes . optical measuring instruments spin tests

Senarmont polariscopes

Senarmont polariscopes

optical measuring instruments

optical equipment

polarization (waves)

polariscopes

polarimeters

polarizers

GS polaritons

polaritons

polarimeters optical equipment

polarimeters

chemical analysis

optical measurement

ellipsometers

photometers

polariscopes

polarography

polarimetry

polarizers

astronomical polarimetry

optical measuring instruments

# polarization (waves)

polarization charts

polarization (waves)

. circular polarization

cross polarization

. elliptical polarization

linear polarization

anisotropic media anisotropy beamforming birefringence BL Lacertae objects

# polarization characteristics

	collimation		. polarized electromagnetic radiation	0	∘ poles
	electromagnetic properties		polarized light		
	Faraday effect	RT	ellipsometry	police	
	Kerr electrooptical effect		gegenschein	GS	personnel
	Kerr magnetooptical effect		Kerr magnetooptical effect		. police
	magneto-optics		monochromatic radiation	RT	communities
	monochromatization		optical activity		crime
	optical coupling		optical depolarization		military personnel
	optical properties		optical polarization		regulations
00	orientation		photoelasticity		security
	photoelastic analysis		zodiacal light		social factors
	polarimetry		•		violence
	polariscopes	polariz	ed radiation		
000	polarization	GS	polarized radiation	policies	6
	polarization modulation	0.0	. polarized elastic waves	GS	policies
	polarized electromagnetic radiation		. polarized electromagnetic radiation		energy policy
	polarizers		polarized light		. foreign policy
	polarons		synchrotron radiation		international relations
	refractivity	RT	caustics (optics)		international cooperation
	rotation	111	elastic waves		outer space treaty
	Totalion		electromagnetic radiation		. patent policy
polariza	ation characteristics		extraterrestrial radiation		. procurement policy
GS	magnetic properties			RT	copyrights
ao	. polarization characteristics		linear polarization		governments
RT	Brewster angle		plasma radiation		licensing
	characteristics	c	opolarization		prohibition
~	polarized radiation		polarization characteristics		regulations
	zwitterions		∘ radiation		rules
	ZWILLEHOUS	۰	∘ rays		Tules
nolariza	tion charts			poliomy	velitis
USE	graphs (charts)	polariz	ers	GS	diseases
USE	<b>0</b> .	DEF	Devices for polarizing radiant energy.	ao	. infectious diseases
	polarization (waves)	RT	Kerr cells		
	stice modulation		light (visible radiation)		viral diseases
	ation modulation		optical polarization		poliomyelitis
,	ed March 1995)		polarimeters	D-#-1- 7	FO 44 -in-u-#
GS	modulation		polariscopes		S-11 aircraft
	polarization modulation		polarization (waves)	USE	TS-11 aircraft
RT	light modulation		polarized electromagnetic radiation		
	optical communication		polarizod ologifornagriotio radiation		d metals
	optical polarization			USE	metal polishing
	polarization (waves)	polarog			
	polarized electromagnetic radiation	USE	polarography	polishir	
				GS	polishing
polarize	ed elastic waves	polarog	graphy		. metal polishing
GS	elastic waves	UF	polarographs		electropolishing
	. polarized elastic waves	GS	electrical measurement		. vibratory polishing
	polarized radiation		. polarography	RT	abrasion
	polarized elastic waves	RT	chemical analysis		cleaning
RT	S waves	• • • •	optical polarization		finishes
111	seismic waves		polarimeters		grinding (material removal)
	sound waves		quantitative analysis		metallography
	Souria waves		quantitative analysis		smoothing
polariza	ed electromagnetic radiation				surface finishing
GS	electromagnetic radiation	polaror			ultrasonic cleaning
ao	. polarized electromagnetic	GS	elementary excitations		unasomo oleaning
			. polarons	politics	
	radiation		particles	RT	air law
	polarized light		. charged particles	n i	
	synchrotron radiation		energetic particles		communities
	polarized radiation		electrons		culture (social sciences)
	. polarized electromagnetic		polarons		governments
	radiation		. corpuscular radiation		international cooperation
	polarized light		energetic particles		international law
	synchrotron radiation		electrons		law (jurisprudence)
RT	cross polarization		polarons		nations
	extraterrestrial radiation		. elementary particles		regimes
	Faraday effect		fermions		sociology
	infrared radiation		leptons		sovereignty
	Kerr cells		electrons		United Nations
	light (visible radiation)		polarons		voting
	linear polarization	RT	conduction bands		warfare
	Lyman alpha radiation	ΠI			
	Lyman beta radiation		cross polarization	pollen	
	magneto-optics		electron phonon interactions	GS	particles
	monochromatic radiation		ionic crystals	ao	. pollen
	polarization (waves)		phonons	RT	aerobiology
			plasmons	111	
	polarization modulation		polarization (waves)		air pollution
	polarizers				dust
~	radiation	∞ poles			plants (botany)
	radiative transfer	SN	(USE OF A MORE SPECIFIC TERM IS		
	radio waves		RECOMMENDEDCONSULT THE TERMS	pollutan	
	stellar radiation	57	LISTED BELOW)	USE	contaminants
	ultraviolet radiation	RT «	dipoles     dipoles		
			magnetic dipoles	pollutio	
polarize			magnetic poles	GS	pollution
GS	electromagnetic radiation		monopoles		. environment pollution
	. light (visible radiation)		poles (supports)		air pollution
	. polarized light		Regge poles		global air pollution
	polarized electromagnetic radiation				indoor air pollution
	polarized light	poles (	supports)		soil pollution
	polarized right	RT	electric power transmission		water pollution
	polalized radiation	ΠI	ciconio powei nanomiosion		water poliution

	oil pollution . noise pollution		water pollution		semiconductors (materials)
	. thermal pollution			polyacr	ylates
RT	clean fuels	poloida			acrylic resins
	contaminants	DEF tipolo m	Plasma confinement concept with mulagements		
	contamination	RT	magnetic field configurations		ylonitrile
	debris		tokamak devices		ed January 1990)
	decontamination		toroidal plasmas		PAN (polyacrylonitrile)
	dissipation		•	GS	nitrogen compounds . nitriles
	elimination endangered species	poloniu	m		. acrylonitriles
	energy policy	GS	chemical elements		polyacrylonitrile
	environment effects		. metalloids		. nitrogen polymers
	environment protection		polonium		. polyacrylonitrile
	environmental quality		polonium isotopes		organic compounds
	environmental surveys		polonium 208		. nitriles
	human wastes		polonium 209		acrylonitriles
	metabolic wastes	RT	polonium 210 metals	RT	polyacrylonitrile acrylic resins
	Microcystis microorganisms		metals		carbon fibers
	nonpoint sources	malaniu	200	۰	o polymers
	oil slicks	poloniu GS	chemical elements		synthetic fibers
	poisons	do	. metalloids		
	prevention		polonium		ide resins
	public health		polonium isotopes		nylon resins
	purity		polonium 208	GS	plastics
	quality		. nuclides		. synthetic resins thermosetting resins
	radioactive wastes smoke abatement		isotopes		furan resins
	solid wastes		polonium isotopes		polyamide resins
	toxicology		polonium 208		Kevlar (trademark)
	waste disposal		radioactive isotopes polonium 208		Nylon (trademark)
	wastes	RT	metals		resins
	water	111	metais		. synthetic resins
	water reclamation		000		thermosetting resins
	water treatment	poloniu GS	m 209 chemical elements		furan resins
nollutio	n control	do	. metalloids		polyamide resins Kevlar (trademark)
•	environmental control		polonium		Nylon (trademark)
ao	. pollution control		polonium isotopes	RT	aramid fiber composites
RT	air quality		polonium 209		aramid fibers
	biochemical oxygen demand		. nuclides		
∞	control		isotopes		mic gases
	dewatering		polonium isotopes	GS	gases
	environmental cleanup		polonium 209		. molecular gases
	environmental surveys		radioactive isotopes polonium 209		. polyatomic gases
	flue gases	RT	metals		diatomic gases
	fly ash particulates		motalo	polyato	mic molecules
	partionatos	poloniu	m 210	. ĠS	molecules
pollution	n monitoring	GS	chemical elements		. polyatomic molecules
RT	air pollution	ao	. metalloids		diatomic molecules
	air quality		polonium	DT	triatomic molecules
	ambience		polonium isotopes	RT	atoms buckminsterfullerene
	environment pollution global air pollution		polonium 210		chemical bonds
	ground stations		. nuclides	۰	chemical compounds
	in situ measurement		isotopes		fullerenes
	monitors		polonium isotopes polonium 210		ions
	particulates		radioactive isotopes		molecular structure
	soil pollution		polonium 210		molecular weight
	warning systems	RT	metals		positive ions
	water pollution			nolyhei	nzimidazole
	water sampling	poloniu	m compounds		nitrogen compounds
pollution	n transport		chemical compounds		. nitrogen polymers
DEF	Dispersing or diffusion of atmospheric		Group 6A compounds		polybenzimidazole
or water	pollutants. Used for atmospheric load-			RT	synthetic fibers
ing.		noloniu	m isotopes		
UF	atmospheric loading	GS	chemical elements	polyblei	
GS	environmental transport	0.0	. metalloids	USE	polymer blends
RT	. pollution transport		polonium	polybro	minated hiphopyle
пі	aerosols air pollution		polonium isotopes		ominated biphenyls A group of 209 chemicals whose to
	atmospheric circulation		polonium 208		ries and includes principally one f
	atmospheric diffusion		polonium 209		nt called firemaster. Used for PBB.
	combustion products		polonium 210 . nuclides	UF	PBB
	dispersing		. isotopes	GS	phenyls
	environment pollution		polonium isotopes		polybrominated biphenyls
	exhaust emission		polonium 208		toxins and antitoxins
	exhaust gases		polonium 209	рт	. polybrominated biphenyls
	gas transport gaseous diffusion		polonium 210	RT	bromine compounds flame retardants
	global air pollution	RT	metals		polychlorinated biphenyls
	plumes				- 1. John Charles Dipriority to
	thermal pollution	polyace	tylene	polybu	tadiene
	trace contaminants	DEF	An aliphatic organic polymer that has	GS	organic compounds
	transport properties		miconductor properties which can be		hydrocarbons
	transport theory		ed by doping.		aliphatic hydrocarbons
	water circulation	HI	conducting polymers		dienes

	polybutadiene	БТ	. polyesters	RT	polyimide resins
	plastics	RI «	∞ polymers	nalviaa	hutulana
DT	. polybutadiene		synthetic fibers		butylene
	addition resins			ds	plastics . polyisobutylene
	block copolymers		ner resins	DT	
	butadiene	GS	plastics	RT	addition resins
	HTPB propellants		. synthetic resins		synthetic rubbers
	synthetic rubbers		polyether resins	polyiso	nrenes
nolybut	adiene tetranitramine		PEEK		prefies polymers
	nitrogen compounds		polymethyl methacrylate	111 ~	rubber
	. nitro compounds		resins		synthetic rubbers
	polybutadiene tetranitramine		. synthetic resins		Synthetic rubbers
	. nitrogen polymers		polyether resins	polymer	allovs
	polybutadiene tetranitramine		PEEK		polymer blends
	plastic propellants	DT	polymethyl methacrylate	002	perymer brende
111	plastic propellarits	RT	vulcanized elastomers	polyme	r blends
polycarl	nonates				ed November 1992)
	carbon compounds		eretherketones	ÙF	polyblends
ao	. carbonates	USE	PEEK		polymer alloys
	. polycarbonates			GS	mixtures
	Lexan (trademark)	polyeth	nylene terephthalate		. polymer blends
	esters	GS	esters	RT	copolymers
	. polycarbonates		. polyethylene terephthalate		polymer physics
	Lexan (trademark)		plastics	~	polymers
	polycarbosilanes		. polyethylenes		thermoplastic resins
	polymers		polyethylene terephthalate		
	polymere		terephthalate	polyme	r chemistry
polycark	oosilanes		. polyethylene terephthalate		biopolymer denaturation
	ed July 1991)	RT	addition resins		chemistry
	silicon polymers		Mylar (trademark)		glass transition temperature
0.0	. polysilanes		∞ polymers		oligomers
	polycarbosilanes				phosphazene
	ceramic fibers	polyeth	nvlenes		polymer physics
	organometallic polymers	ĞS	plastics	~	polymers
	polycarbonates		polyethylenes		polywater
	silanes		polyethylene terephthalate		, · · · · ·
	silicon carbides	RT		polyme	r matrix composites
			ethylene		Materials consisting of reinforcing fi-
polychlo	prinated biphenyls		synthetic resins		aments, and/or whiskers embedded in
UF	PCB		thermoplastic resins	polymer	ic bonding matrices for increased me-
	phenyls				and physical properties.
	. polychlorinated biphenyls	nolvao	nization		composite materials
RT	polybrominated biphenyls	RT	crystal defects		polymer matrix composites
	py		crystal growth		epoxy matrix composites
polycrys	stals		recrystallization		boron-epoxy composites
	crystals		red ystamzation		graphite-epoxy composites
	. polycrystals				graphite-polyimide composites
RT	bicrystals	polygo			reinforced plastics
	crystal structure	GS	geometry		carbon fiber reinforced plastics
	single crystals		. Euclidean geometry		carbon-phenolic composites
	eg.o e.yeta.e		polygons		glass fiber reinforced plastics
polycyc	lic aromatic hydrocarbons		hexagons		micarta
	ed November 1994)		tetragons	RT	aramid fiber composites
	PAH		parallelograms		bismaleimide
	organic compounds		rhomboids		boron fibers
			rectangles		construction materials
			squares (mathematics)	~	
	. cyclic compounds			~	
	. cyclic compounds cyclic hydrocarbons		trapezoids	~	fiber composites
	. cyclic compounds cyclic hydrocarbons polycyclic aromatic	D.T.	trapezoids triangles	~	fiber composites hybrid composites
	. cyclic compounds cyclic hydrocarbons polycyclic aromatic hydrocarbons	RT	trapezoids		fiber composites hybrid composites laminates
	. cyclic compounds . cyclic hydrocarbons polycyclic aromatic hydrocarbons . hydrocarbons	RT	trapezoids triangles	~	fiber composites hybrid composites laminates materials
	. cyclic compounds . cyclic hydrocarbons polycyclic aromatic hydrocarbons . hydrocarbons . cyclic hydrocarbons	polyhe	trapezoids triangles polytopes  drons	~	fiber composites hybrid composites laminates
	. cyclic compounds . cyclic hydrocarbons polycyclic aromatic hydrocarbons . hydrocarbons . cyclic hydrocarbons polycyclic aromatic		trapezoids triangles polytopes  drons geometry	~	fiber composites hybrid composites laminates materials matrices matrix materials
GS	. cyclic compounds . cyclic hydrocarbons polycyclic aromatic hydrocarbons . hydrocarbons . cyclic hydrocarbons	polyhe	trapezoids triangles polytopes  drons geometry Euclidean geometry	~	fiber composites hybrid composites laminates materials matrices
GS RT ∞	. cyclic compounds . cyclic hydrocarbons . polycyclic aromatic hydrocarbons . hydrocarbons . cyclic hydrocarbons . cyclic hydrocarbons . polycyclic aromatic hydrocarbons aromatic compounds	polyhe	trapezoids triangles polytopes  drons geometry Euclidean geometry polyhedrons	« «	fiber composites hybrid composites laminates materials matrices matrix materials nanocomposites PEEK
GS RT ∞	. cyclic compounds . cyclic hydrocarbons polycyclic aromatic hydrocarbons . hydrocarbons . cyclic hydrocarbons polycyclic aromatic hydrocarbons aromatic compounds combustion products	polyhe	trapezoids triangles polytopes  drons geometry . Euclidean geometry polyhedrons cubes (mathematics)	« «	fiber composites hybrid composites laminates materials matrices matrix materials nanocomposites PEEK
GS RT ∞	. cyclic compounds . cyclic hydrocarbons polycyclic aromatic hydrocarbons . hydrocarbons . cyclic hydrocarbons polycyclic aromatic hydrocarbons aromatic compounds combustion products cosmic dust	polyhe	trapezoids triangles polytopes  drons geometry . Euclidean geometry polyhedrons cubes (mathematics) icosahedrons	« «	fiber composites hybrid composites laminates materials matrices matrix materials nanocomposites PEEK polymers pultrusion
GS RT ∞	. cyclic compounds . cyclic hydrocarbons polycyclic aromatic hydrocarbons . hydrocarbons . cyclic hydrocarbons polycyclic aromatic hydrocarbons aromatic compounds combustion products cosmic dust diffuse interstellar bands	polyhe	trapezoids triangles polytopes  drons geometry . Euclidean geometry . polyhedrons cubes (mathematics) icosahedrons octahedrons	« «	fiber composites hybrid composites laminates materials matrices matrix materials nanocomposites PEEK polymers pultrusion resin film infusion
GS RT ∞	. cyclic compounds . cyclic hydrocarbons polycyclic aromatic hydrocarbons . hydrocarbons . cyclic hydrocarbons polycyclic aromatic hydrocarbons aromatic compounds combustion products cosmic dust	polyhe	trapezoids triangles polytopes  drons geometry . Euclidean geometry polyhedrons cubes (mathematics) icosahedrons	« «	fiber composites hybrid composites laminates materials matrices matrix materials nanocomposites PEEK polymers pultrusion resin film infusion resin matrix composites
GS RT ∞	. cyclic compounds . cyclic hydrocarbons . polycyclic aromatic hydrocarbons . hydrocarbons . cyclic hydrocarbons . cyclic hydrocarbons . polycyclic aromatic hydrocarbons aromatic compounds combustion products cosmic dust diffuse interstellar bands interstellar matter	polyhe	trapezoids triangles polytopes  drons geometry . Euclidean geometry . polyhedrons cubes (mathematics) icosahedrons octahedrons parallelepipeds pyramids	« «	fiber composites hybrid composites laminates materials matrices matrix materials nanocomposites PEEK polymers pultrusion resin film infusion resin matrix composites resin transfer molding
GS RT ∞	. cyclic compounds . cyclic hydrocarbons polycyclic aromatic hydrocarbons . hydrocarbons . cyclic hydrocarbons . polycyclic aromatic hydrocarbons aromatic compounds combustion products cosmic dust diffuse interstellar bands interstellar matter	polyhe	trapezoids triangles polytopes  drons geometry . Euclidean geometry polyhedrons cubes (mathematics) icosahedrons octahedrons otahedrons parallelepipeds pyramids rhombohedrons	« «	fiber composites hybrid composites laminates materials matrices matrix materials nanocomposites PEEK polymers pultrusion resin film infusion resin matrix composites
GS RT ∞ <b>polycytr</b> RT	. cyclic compounds . cyclic hydrocarbons polycyclic aromatic hydrocarbons . hydrocarbons . cyclic hydrocarbons . polycyclic aromatic hydrocarbons aromatic compounds combustion products cosmic dust diffuse interstellar bands interstellar matter	polyhe	trapezoids triangles polytopes  drons geometry . Euclidean geometry . polyhedrons cubes (mathematics) icosahedrons octahedrons parallelepipeds pyramids	α	fiber composites hybrid composites laminates materials matrices matrix materials nanocomposites PEEK polymers pultrusion resin film infusion resin transfer molding sheet molding compounds
GS RT ∞ polycyth RT	. cyclic compounds . cyclic hydrocarbons polycyclic aromatic hydrocarbons . hydrocarbons . cyclic hydrocarbons . polycyclic aromatic hydrocarbons aromatic compounds combustion products cosmic dust diffuse interstellar bands interstellar matter	polyhe	trapezoids triangles polytopes  drons geometry . Euclidean geometry . polyhedrons cubes (mathematics) icosahedrons octahedrons parallelepipeds pyramids rhombohedrons tetrahedrons buckminsterfullerene	polyme	fiber composites hybrid composites laminates materials matrices matrix materials nanocomposites PEEK polymers pultrusion resin film infusion resin transfer molding sheet molding compounds  r physics
GS RT ∞ <b>polycyth</b> RT	. cyclic compounds . cyclic hydrocarbons . polycyclic aromatic hydrocarbons . hydrocarbons . cyclic hydrocarbons . cyclic hydrocarbons . polycyclic aromatic hydrocarbons aromatic compounds combustion products cosmic dust diffuse interstellar bands interstellar matter  nemia hemoglobin hemolysis hemorrhages	polyhe GS	trapezoids triangles polytopes  drons geometry . Euclidean geometry polyhedrons cubes (mathematics) icosahedrons octahedrons octahedrons parallelepipeds pyramids rhombohedrons tetrahedrons	polyme RT	fiber composites hybrid composites laminates o materials o matrices matrix materials nanocomposites PEEK polymers pultrusion resin film infusion resin matrix composites resin transfer molding sheet molding compounds  r physics glass transition temperature
GS RT ∞ <b>polycyth</b> RT	. cyclic compounds . cyclic hydrocarbons polycyclic aromatic hydrocarbons . hydrocarbons . cyclic hydrocarbons . polycyclic aromatic hydrocarbons aromatic compounds combustion products cosmic dust diffuse interstellar bands interstellar matter	polyhe GS	trapezoids triangles polytopes  drons geometry . Euclidean geometry . polyhedrons cubes (mathematics) icosahedrons octahedrons parallelepipeds pyramids rhombohedrons tetrahedrons buckminsterfullerene	polyme RT	fiber composites hybrid composites laminates materials matrices matrix materials nanocomposites PEEK polymers pultrusion resin film infusion resin matrix composites resin transfer molding sheet molding compounds  r physics glass transition temperature physics
GS RT ∞ polycyth RT	. cyclic compounds . cyclic hydrocarbons polycyclic aromatic hydrocarbons . hydrocarbons . cyclic hydrocarbons . polycyclic aromatic hydrocarbons aromatic compounds combustion products cosmic dust diffuse interstellar bands interstellar matter  nemia hemoglobin hemolysis hemorrhages spleen	polyhe GS	trapezoids triangles polytopes  drons geometry Euclidean geometry polyhedrons cubes (mathematics) icosahedrons octahedrons parallelepipeds pyramids rhombohedrons tetrahedrons buckminsterfullerene fullerenes	polyme RT	fiber composites hybrid composites laminates materials matrices matrix materials nanocomposites PEEK polymers pultrusion resin film infusion resin matrix composites resin transfer molding sheet molding compounds  r physics glass transition temperature physics polymer blends
GS RT ∞  polycyth RT	. cyclic compounds . cyclic hydrocarbons polycyclic aromatic hydrocarbons . hydrocarbons . cyclic hydrocarbons . polycyclic aromatic hydrocarbons aromatic compounds combustion products cosmic dust diffuse interstellar bands interstellar matter  nemia hemoglobin hemolysis hemorrhages spleen	polyhe GS RT	trapezoids triangles polytopes  drons geometry Euclidean geometry polyhedrons cubes (mathematics) icosahedrons octahedrons parallelepipeds pyramids rhombohedrons tetrahedrons buckminsterfullerene fullerenes	polyme RT «	fiber composites hybrid composites laminates materials matrices matrix materials nanocomposites PEEK polymers pultrusion resin film infusion resin matrix composites resin transfer molding sheet molding compounds  r physics glass transition temperature physics polymer blends polymer chemistry
GS RT ∞  polycyth RT	. cyclic compounds . cyclic hydrocarbons . polycyclic aromatic hydrocarbons . hydrocarbons . cyclic hydrocarbons . cyclic hydrocarbons . polycyclic aromatic hydrocarbons aromatic compounds combustion products cosmic dust diffuse interstellar bands interstellar matter  nemia hemoglobin hemolysis hemorrhages spleen er resins plastics	polyhe GS RT	trapezoids triangles polytopes  drons geometry . Euclidean geometry . polyhedrons cubes (mathematics) icosahedrons octahedrons oparallelepipeds pyramids rhombohedrons tetrahedrons buckminsterfullerene fullerenes polytopes	polyme RT «	fiber composites hybrid composites laminates materials matrices matrix materials nanocomposites PEEK polymers pultrusion resin film infusion resin matrix composites resin transfer molding sheet molding compounds  r physics glass transition temperature physics polymer blends polymer chemistry polymers
GS RT ∞  polycyth RT	. cyclic compounds . cyclic hydrocarbons . polycyclic aromatic hydrocarbons . hydrocarbons . cyclic hydrocarbons . cyclic hydrocarbons . polycyclic aromatic hydrocarbons aromatic compounds combustion products cosmic dust diffuse interstellar bands interstellar matter  nemia hemoglobin hemolysis hemorrhages spleen  per resins plastics . synthetic resins	polyhe GS RT polyim	trapezoids triangles polytopes  drons geometry . Euclidean geometry polyhedrons cubes (mathematics) icosahedrons octahedrons octahedrons parallelepipeds pyramids rhombohedrons tetrahedrons buckminsterfullerene fullerenes polytopes  ide resins	polyme RT	fiber composites hybrid composites laminates materials matrices matrix materials nanocomposites PEEK polymers pultrusion resin film infusion resin matrix composites resin transfer molding sheet molding compounds  r physics glass transition temperature physics polymer blends polymer chemistry polymers polywater
GS  RT ∞  polycytt  RT  polyeste GS	. cyclic compounds . cyclic hydrocarbons . polycyclic aromatic hydrocarbons . hydrocarbons . hydrocarbons . cyclic hydrocarbons . polycyclic aromatic hydrocarbons aromatic compounds combustion products cosmic dust diffuse interstellar bands interstellar matter  nemia hemoglobin hemolysis hemorrhages spleen  presins plastics . synthetic resins . polyester resins	polyhe GS RT polyim	trapezoids triangles polytopes  drons geometry . Euclidean geometry polyhedrons cubes (mathematics) icosahedrons octahedrons parallelepipeds pyramids rhombohedrons tetrahedrons buckminsterfullerene fullerenes polytopes  ide resins resins	polyme RT	fiber composites hybrid composites laminates materials matrices matrix materials nanocomposites PEEK polymers pultrusion resin film infusion resin matrix composites resin transfer molding sheet molding compounds  r physics glass transition temperature physics polymer blends polymer chemistry polymers
GS  RT ∞  polycytt  RT  polyeste GS	. cyclic compounds . cyclic hydrocarbons . cyclic hydrocarbons . polycyclic aromatic hydrocarbons . hydrocarbons . cyclic hydrocarbons . polycyclic aromatic hydrocarbons aromatic compounds combustion products cosmic dust diffuse interstellar bands interstellar matter  nemia hemoglobin hemolysis hemorrhages spleen er resins plastics . synthetic resins resins	polyhe GS RT polyim GS	trapezoids triangles polytopes  drons geometry Euclidean geometry polyhedrons cubes (mathematics) icosahedrons octahedrons parallelepipeds pyramids rhombohedrons tetrahedrons buckminsterfullerene fullerenes polytopes  ide resins resins polyimide resins	polyme RT ~	fiber composites hybrid composites laminates materials matrices matrix materials nanocomposites PEEK polymers pultrusion resin film infusion resin matrix composites resin transfer molding sheet molding compounds r physics glass transition temperature physics polymer blends polymer chemistry polymers polywater science
GS  RT ∞  polycytt  RT  polyeste GS	. cyclic compounds . cyclic hydrocarbons . polycyclic aromatic hydrocarbons . hydrocarbons . cyclic hydrocarbons . cyclic hydrocarbons . cyclic hydrocarbons aromatic compounds combustion products cosmic dust diffuse interstellar bands interstellar matter  nemia hemoglobin hemolysis hemorrhages spleen er resins plastics . synthetic resins resins . synthetic resins	polyhe GS RT polyim GS	triangles polytopes  drons geometry Euclidean geometry polyhedrons cubes (mathematics) cotahedrons parallelepipeds pyramids rhombohedrons tetrahedrons tetrahedrons buckminsterfullerene fullerenes polytopes  ide resins resins polyimide resins bismaleimide polyimides	polyme RT « polyme	fiber composites hybrid composites laminates materials materials materials manocomposites PEEK poplymers pultrusion resin film infusion resin matrix composites resin transfer molding sheet molding compounds r physics glass transition temperature physics polymer blends polymer chemistry polymers polywater science rase chain reaction
GS  RT ∞  polycyth  RT  polyeste  GS	. cyclic compounds . cyclic hydrocarbons . polycyclic aromatic hydrocarbons . hydrocarbons . hydrocarbons . cyclic hydrocarbons . cyclic hydrocarbons . polycyclic aromatic hydrocarbons aromatic compounds combustion products cosmic dust diffuse interstellar bands interstellar matter  nemia hemoglobin hemolysis hemorrhages spleen  per resins plastics . synthetic resins . polyester resins . polyester resins . polyester resins	polyhe GS RT polyim GS	trapezoids triangles polytopes  drons geometry . Euclidean geometry . polyhedrons cubes (mathematics) icosahedrons octahedrons parallelepipeds pyramids rhombohedrons tetrahedrons buckminsterfullerene fullerenes polytopes  ide resins resins . polyimide resins bismaleimide	polyme RT « polyme (adde	fiber composites hybrid composites laminates materials matrices matrix materials nanocomposites PEEK polymers pultrusion resin film infusion resin matrix composites resin transfer molding sheet molding compounds  r physics glass transition temperature physics polymer blends polymer chemistry polymers polywater science rase chain reaction and August 2004)
GS  RT ∞  polycyth RT  polyeste GS	. cyclic compounds . cyclic hydrocarbons . polycyclic aromatic hydrocarbons . hydrocarbons . hydrocarbons . cyclic hydrocarbons . cyclic hydrocarbons . polycyclic aromatic hydrocarbons aromatic compounds combustion products cosmic dust diffuse interstellar bands interstellar matter  nemia hemoglobin hemolysis hemorrhages spleen  er resins plastics . synthetic resins . polyester resins resins . polyester resins Dacron (trademark)	polyhe GS RT polyim GS RT	triangles polytopes  drons geometry Euclidean geometry polyhedrons cubes (mathematics) cosahedrons parallelepipeds pyramids rhombohedrons tetrahedrons buckminsterfullerene fullerenes polytopes  ide resins resins polyimide resins bismaleimide polyimides resin matrix composites	polyme RT « polyme (adde DEF	fiber composites hybrid composites laminates materials matrices matrix materials nanocomposites PEEK polymers pultrusion resin film infusion resin matrix composites resin transfer molding sheet molding compounds  r physics glass transition temperature physics polymer blends polymer chemistry polymers polywater escience  rase chain reaction and August 2004) In vitro methods for producing large
GS  RT ∞  polycyth RT  polyeste GS	. cyclic compounds . cyclic hydrocarbons . polycyclic aromatic hydrocarbons . hydrocarbons . hydrocarbons . cyclic hydrocarbons . cyclic hydrocarbons . polycyclic aromatic hydrocarbons aromatic compounds combustion products cosmic dust diffuse interstellar bands interstellar matter  nemia hemoglobin hemolysis hemorrhages spleen  per resins plastics . synthetic resins . polyester resins . polyester resins . polyester resins	polyhe GS RT polyim GS RT	triangles polytopes  drons geometry Euclidean geometry polyhedrons cubes (mathematics) cosahedrons parallelepipeds pyramids rhombohedrons tetrahedrons buckminsterfullerene fullerenes polytopes  ide resins resins polyimide resins bismaleimide polyimides resin matrix composites	polyme RT ~ polyme (addd DEF amounts	fiber composites hybrid composites laminates materials matrices matrix materials nanocomposites PEEK  polymers pultrusion resin film infusion resin matrix composites resin transfer molding sheet molding compounds  r physics glass transition temperature physics polymer blends polymer chemistry polymer secience  rase chain reaction and August 2004) In vitro methods for producing large of specific DNA or RNA fragments of
GS  RT ∞  polycyti RT  polyeste GS	. cyclic compounds . cyclic hydrocarbons . polycyclic aromatic hydrocarbons . hydrocarbons . hydrocarbons . cyclic hydrocarbons . cyclic hydrocarbons . polycyclic aromatic hydrocarbons aromatic compounds combustion products cosmic dust diffuse interstellar bands interstellar matter  nemia hemoglobin hemolysis hemorrhages spleen er resins plastics . synthetic resins resins . polyester resins pacron (trademark) thermosetting resins	polyhe GS RT polyim GS RT	triangles polytopes  drons geometry Euclidean geometry polyhedrons cubes (mathematics) cicosahedrons parallelepipeds primition parallelepipeds pyramids rhombohedrons tetrahedrons buckminsterfullerene fullerenes polytopes  ide resins resins polyimide resins bismaleimide polyimides resin matrix composites  ides nitrogen compounds	polyme RT ~ polyme (adde DEF amounts defined	fiber composites hybrid composites laminates materials materials manocomposites PEEK polymers pultrusion resin film infusion resin matrix composites resin transfer molding sheet molding compounds  r physics glass transition temperature physics polymer blends polymer chemistry polymers oscience  rase chain reaction and August 2004) In vitro methods for producing large of specific DNA or RNA fragments of length and sequence from small
GS  RT ∞  polycyth RT  polyeste GS	. cyclic compounds . cyclic hydrocarbons . polycyclic aromatic hydrocarbons . hydrocarbons . hydrocarbons . cyclic hydrocarbons . cyclic hydrocarbons . polycyclic aromatic hydrocarbons aromatic compounds combustion products cosmic dust diffuse interstellar bands interstellar matter  nemia hemoglobin hemolysis hemorrhages spleen  per resins plastics . synthetic resins . polyester resins resins . polyester resins Dacron (trademark) thermosetting resins	polyhe GS RT polyim GS RT	triangles polytopes  drons geometry Euclidean geometry polyhedrons cubes (mathematics) cotahedrons parallelepipeds pyramids rhombohedrons tetrahedrons tetrahedrons polytopes  ide resins resins polyimide resins bismaleimide polyimides resin matrix composites  iides nitrogen compounds amides	polyme RT ~~ polyme (adde DEF amounts defined amounts	fiber composites hybrid composites laminates materials matrices materials manocomposites PEEK polymers pultrusion resin film infusion resin film infusion resin transfer molding sheet molding compounds rephysics glass transition temperature physics polymer blends polymer chemistry polymer spolywater science rase chain reaction ad August 2004) In vitro methods for producing large sof specific DNA or RNA fragments of length and sequence from small of short oligonuleotide flanking se-
GS  RT ∞  polycyth RT  polyeste GS  RT  polyeste DEF	. cyclic compounds . cyclic hydrocarbons . polycyclic aromatic hydrocarbons . hydrocarbons . hydrocarbons . cyclic hydrocarbons . cyclic hydrocarbons . polycyclic aromatic hydrocarbons aromatic compounds combustion products cosmic dust diffuse interstellar bands interstellar matter  nemia hemoglobin hemolysis hemorrhages spleen  er resins plastics . synthetic resins . polyester resins resins . synthetic resins . polyester resins Dacron (trademark) thermosetting resins  ers Polymers in which the repeated struc-	polyhe GS RT polyim GS RT	triangles polytopes  drons geometry Euclidean geometry polyhedrons cubes (mathematics) cosahedrons parallelepipeds pyramids rhombohedrons tetrahedrons tetrahedrons polytopes  ide resins resins polyimide resins bismaleimide polyimides resin matrix composites  ides introgen compounds argentations intrangen compounds amides polytimides	polymer RT amounts defined amounts quences	fiber composites hybrid composites laminates materials matrices matrix materials nanocomposites PEEK  polymers pultrusion resin film infusion resin matrix composites resin transfer molding sheet molding compounds  r physics glass transition temperature physics polymer blends polymer blends polymer chemistry polymers polywater science  rase chain reaction ad August 2004) In vitro methods for producing large of specific DNA or RNA fragments of length and sequence from small of short oligonuleotide flanking sets (primers). The essential steps include
GS  RT ∞  polycyth RT  polyeste GS  RT  polyeste DEF tural unit	. cyclic compounds . cyclic hydrocarbons . polycyclic aromatic hydrocarbons . hydrocarbons . hydrocarbons . cyclic hydrocarbons . cyclic hydrocarbons . polycyclic aromatic hydrocarbons aromatic compounds combustion products cosmic dust diffuse interstellar bands interstellar matter  nemia hemoglobin hemolysis hemorrhages spleen  per resins plastics . synthetic resins . polyester resins resins . polyester resins Dacron (trademark) thermosetting resins	polyhe GS RT polyim GS RT	triangles polytopes  drons geometry Euclidean geometry polyhedrons cubes (mathematics) cotahedrons parallelepipeds pyramids rhombohedrons tetrahedrons tetrahedrons polytopes  ide resins resins polyimide resins bismaleimide polyimides resin matrix composites  iides nitrogen compounds amides	polymer RT amounts defined amounts quences thermal	fiber composites hybrid composites laminates materials matrices materials manocomposites PEEK polymers pultrusion resin film infusion resin film infusion resin transfer molding sheet molding compounds rephysics glass transition temperature physics polymer blends polymer chemistry polymer spolywater science rase chain reaction ad August 2004) In vitro methods for producing large sof specific DNA or RNA fragments of length and sequence from small of short oligonuleotide flanking se-

the ann with DN	nentary sequences, and extension of ealed primers by enzymatic synthesis A polymerase. in vitro methods and tests . polymerase chain reaction biochemistry deoxyribonucleic acid genetic engineering oligonucleotides	polymer chemistry polymer matrix composites polymer physics polyquinoxalines polysilanes polysiloxanes polytetrafluoroethylene polyurethane foam polyvinyl fluoride	. polynyas RT air sea ice interactions Antarctic regions Arctic Ocean ocean surface polar regions sea ice surface water
	·	prepolymers	polyorganosiloxanes
polyme UF	ric films plastic films	Pyrrones (trademark) silicon polymers	USE polysiloxanes
GS	polymeric films . Kapton (trademark)	silicones siloxanes	Polyot satellites  GS artificial satellites
	. Mylar (trademark)	solithanes	. Polyot satellites
RT	casting conducting polymers	styrofoam (trademark) synthetic resins	polypeptides
	fibers	teflon (trademark)	DEF In organic chemistry, chains of amino acids linked by peptide bonds but with lower
~	∍films Langmuir-Blodgett films	vinyl copolymers vinyl polymers	molecular weights than proteins; obtained by
	Nylon (trademark) photographic film	polymethyl methacrylate	synthesis or by partial hydrolysis of proteins.  GS organic compounds
	plastic coatings	UF lucite (trademark)	. peptides <b>polypeptides</b>
~	polypyrroles sheets	plexiglass (trademark) GS plastics	angiotensins
		. synthetic resins polyether resins	glutathione hypertensin
polyme DEF	A chemical reaction in which the mol-	polymethyl methacrylate	RT amino acids
ecules of polymer	of monomers are linked together to form	resins . synthetic resins	biopolymers proteins
GS	synthesis (chemistry)	polyether resins	polyphenyl ether
	. polymerization copolymerization	<b>polymethyl methacrylate</b> vinyl polymers	GS ethers
DT	dimerization	polymethyl methacrylate	. polyphenyl ether
RT	chemical reactions coupled modes	polymorphism	polyphenyls GS phenyls
	cycloaddition	GS morphology . polymorphism	polyphenyls
	depolymerization electrochemical synthesis	RT allotropy	tetraphenyls triphenyls
	oligomers quinoxalines	crystal lattices crystal structure	. ,
	refining	∞ physical properties	polypropylene GS plastics
~	setting Ziegler catalyst	polynomials	. <b>polypropylene</b> RT addition resins
	zwitterions	GS algebra . <b>polynomials</b>	synthetic resins
∘ polyme	rs	binomials	polypyrroles
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	dyadics Hermitian polynomial	(added August 1994) UF PPY
RT	LISTED BELOW) biopolymers	RT coefficients cubic equations	RT conducting polymers
	block copolymers	eigenvalues	electrode materials polymeric films
	cellophane conducting polymers	eigenvectors ∞ equations	pyrroles
	coordination polymers copolymerization	linear equations	polyquinoxalines
	copolymers	nonlinear equations quadratic equations	RT ∞ chemical compounds ∞ polymers
	dendrimers elastomers	roots of equations shape functions	polysaccharides
	electroactive polymers	·	GS biopolymers
	ferroelectric materials fluoropolymers	polynuclear organic compounds  DEF Hydrocarbon molecules with two or	. <b>polysaccharides</b> cellulose
	formica	more nuclei and with or without oxygen, nitro-	Fortisan (trademark)
	glycidyl azide polymer high polymers	gen, or other elements.  GS organic compounds	chitin dextrans
	Kapton (trademark) KEL-F	. <b>polynuclear organic compounds</b> RT air pollution	glycogens
	Lexan (trademark)	∞ chemical compounds	starches organic compounds
	lignin macromolecules	petroleum products purification	. carbohydrates <b>polysaccharides</b>
	methyl polysiloxanes micarta	'	cellulose
	monomers	polynucleotides  DEF Linear sequences of esters of nucle-	Fortisan (trademark) chitin
	Mylar (trademark) nitrogen polymers	otides and phosphoric acid.  GS organic compounds	dextrans
	Nylon (trademark)	. nucleotides	glycogens starches
	oligomers oligonucleotides	<b>polynucleotides</b> phosphorus compounds	RT gums (substances)
	organic materials	. phosphates	polysilanes
	organometallic polymers oxetane polymers	<b>polynucleotides</b> RT biopolymers	(added July 1991) UF oxosilanes
	phosphorus polymers photopolymers	proteins ribonucleic acids	GS silicon polymers polysilanes
	plastics		. polycarbosilanes
	polyacrylonitrile polycarbonates	polynyas (added July 2001)	RT organometallic polymers ∞ polymers
	polyesters	DEF Large areas of open water surrounded	silanes
	polyethylene terephthalate polyisoprenes	by sea ice. UF <i>ice clearings</i>	polysiloxanes
	polymer blends	GS clearings (openings)	(added July 1991)

UF	polyorganosiloxanes	. polytetrafluoroeth	nylene	polymer physics
GS	silicon polymers	teflon (trademark		
	. silicones	RT ∞ polymers	Pomer: GS	anchuk theorem theorems
	polysiloxanes methyl polysiloxanes	synthetic resins	dS	. Pomeranchuk theorem
RT ∘	o polymers	polytopes	RT	
	silicon compounds	RT analytic geometry		deuterons
	siloxanes	Euclidean geometry	1	diffraction patterns
polyslip	ne .	hyperplanes		eikonal equation elastic scattering
RT •		polygons polyhedrons		electrons
	·	polyficuloris		elementary particles
	tion doppler tracking system	polytropic processes		field theory (physics)
GS	networks . tracking networks	RT adiabatic conditions	;	Fredholm equations
	polystation doppler tracking	∞ isobars		Glauber theory high energy interactions
	system	thermodynamics		kaons
	stations	polyurethane foam		mesons
	. ground stations	RT foams		nucleon-nucleon scattering
	polystation doppler tracking system	low density material	ls	pomerons Regge poles
	. tracking stations	∞ polymers		scattering cross sections
	polystation doppler tracking	soils		
	system	sponges (materials)	poilieit	
	tracking (position)	polyurethane resins	RT	
	. polystation doppler tracking system	GS resins		Pomeranchuk theorem proton-proton reactions
RT	Doppler radar	. polyurethane res	ins	Regge poles
	missile tracking	RT composite propellar	nts	scattering
	pulse radar			scattering cross sections
	radar networks	polyvinyl alcohol	- name	variativa farias
	satellite doppler positioning space detection and tracking system	GS hydroxyl compound: . alcohols	s pondei GS	romotive forces electromotive forces
	spacecraft tracking	polyvinyl alcoho		. ponderomotive forces
0	⇒ systems	plastics	RT	•
		polyvinyl alcohol	•	∞ force
polysty GS	rene plastics	vinyl polymers		Lorentz force
do	. polystyrene	. <b>polyvinyl alcohol</b> RT addition resins		relativistic plasmas relativity
	styrofoam (trademark)	synthetic resins		Totalivity
	styrenes	,	ponds	
	. polystyrene	polyvinyl chloride	DEF	9
	styrofoam (trademark) vinyl polymers	UF Geon (trademark)		ing small surface depressions, usually than lakes and larger than pools.
	. polystyrene	GS plastics	DT	
	styrofoam (trademark)	. <b>polyvinyl chloride</b> vinyl polymers	*	Great Salt Lake (UT)
RT	addition resins	. polyvinyl chloride	e	irrigation
	block copolymers	RT addition resins		lagoons
	Santowax (trademark) synthetic resins	chlorides		lakes limnology
	thermoplastic resins	synthetic resins tetrahydrofuran		liquid wastes
	·	tetrarrydroldrarr		reservoirs
polysul		polyvinyl fluoride		solar ponds (heat storage)
GS	chalcogenides . sulfides	DEF DuPont's Tedlar, i	unplasticized PVF	surface water waste disposal
	inorganic sulfides	films with outstanding resist		waste disposal water resources
	polysulfides	radiation. Used for Tedlar (trademark)	ademark).	watersheds
	sulfur compounds	UF Tedlar (trademark) GS halogen compounds		windpowered pumps
	. sulfides	. fluorine compound	le.	- (MI)
	inorganic sulfides polysulfides	fluorides	Pontia GS	cities
RT	composite propellants	polyvinyl fluor	ide	. Pontiac (MI)
		fluoro compound: fluorine organic		Michigan
	rafluoroethylene	fluoropolymers	,	
GS	halogen compounds . fluorine compounds	polyvinyl flu		agin principle calculus of variations
	fluoro compounds	halides	111	maximum principle
	difluoro compounds	fluorides	tal.	optimization
	polytetrafluoroethylene	polyvinyl fluori organic compounds		reaction time
	teflon (trademark)	fluorine organic co	mnounde	Proceedings of the Control of the Co
	fluorine organic compounds fluorohydrocarbons	fluoropolymers	Горија	ntion I stars ded May 2002)
	polytetrafluoroethylene	polyvinyl fluor		Young stars formed from matter of
	teflon (trademark)	plastics	previou	is generations of stars (Population II
	fluoropolymers	. <b>polyvinyl fluoride</b> vinyl polymers	siais), i	and having significant amounts of heavier
	polytetrafluoroethylene	. polyvinyl fluoride		its. They are particularly concentrated in
	teflon (trademark) organic compounds	RT ∞ polymers	tne inte	erstellar dust of the arms of spiral galax-
	. fluorine organic compounds		GS	celestial bodies
	fluorohydrocarbons	polyvinylidene	0.0	. stars
	polytetrafluoroethylene	(added December 1997)		Population I stars
	teflon (trademark)	USE vinylidene	RT	B stars
	fluoropolymers polytetrafluoroethylene	polywater		interstellar matter irregular galaxies
	teflon (trademark)	GS water		O stars
	. hydrocarbons	. polywater		open clusters
	fluorohydrocarbons	RT atomic structure		Population II stars
	polytetrafluoroethylene	chemical bonds	Barrier II	stion II store
	teflon (trademark) plastics	molecular structure polymer chemistry	-	ntion II stars ded May 2002)
	ριαστισσ	polymer chemistry	(aud	iou may 2002)

	0111				
	Old, low-metallicity stars up to 15 bil-		pinholes	RT	hemoglobin
lion yea	ars in age found in globular clusters,		porous boundary layer control		
elliptica	galaxies, and the bulges and halos of		porous materials	porpois	es
spiral g			porous plates	GS	animals
GS	celestial bodies		porous silicon		. vertebrates
do					mammals
	. stars	0	properties		
	Population II stars		sintering		marine mammals
RT	elliptical galaxies		textures		porpoises
	galactic halos		void ratio		
	globular clusters		voids		e equipment
	horizontal branch stars		wettability	RT ∝	∘ equipment
	Population I stars		Total my		lixiscopes
	1 opalation 1 otalo		-1.4-11-		logistics
Popula	tion III stars	porous			mobility
		USE	porous boundary layer control		stowage (onboard equipment)
	ed July 1999)				otomago (onsoara equipment)
	primordial stars	porous	boundary layer control	nortable	e life support systems
GS	celestial bodies	UF	porous airfoils	UF	PLSS
	. stars	GS	boundary layer control		
	Population III stars	ao	. porous boundary layer control	GS	support systems
RT	cosmology	DT			. life support systems
	dark matter	HI º	o control		portable life support systems
	relic radiation		convective flow		AEPS
			Ekman layer		IMLSS
	stellar evolution		free convection	RT	argon-oxygen atmospheres
	supermassive stars		holes (mechanics)		biopaks
			mass transfer		
popula	ion inversion		perforated plates		breathing apparatus
GS	inversions		·		emergency life sustaining systems
	. population inversion		porosity		helium-oxygen atmospheres
RT	electron pumping		wings		oxygen masks
					pressure suits
	energy levels	porous	materials	~	systems
	molecular relaxation	GS	porous materials	~	Systems
	nitrogen lasers	ao		B	
	nuclear pumping		. porous silicon		n-le Chatelier effect
	populations	RT	aerogels		ed August 1997)
	stimulated emission		brittle materials	DEF	A discontinuous yielding in crystalling
	dimalated emission	0	cells	solids c	haracterized by a serrated or step-like
nonulo	ion theory		honeycomb structures		tion curve.
	ion theory		interstices		PLC effect
RT	populations		low density materials	RT	
	probability theory			n i	crystal dislocations
0	• theories	۰	materials		deformation
			metal powder	00	o effects
popula	ions		porosity		strain rate
RT	adults		powder metallurgy		stress-strain diagrams
	biomass		sands		stress-strain relationships
			soils		
	discriminant analysis (statistics)			∞ norts	
	geographic distribution		sponges (materials)	∞ ports	(LISE OF A MODE SPECIFIC TERM IS
	geographic distribution population inversion			∞ <b>ports</b> SN	(USE OF A MORE SPECIFIC TERM IS
	geographic distribution		sponges (materials)		RECOMMENDEDCONSULT THE TERMS
	geographic distribution population inversion	porous	sponges (materials) xerogels	SN	
o	geographic distribution population inversion population theory	<b>porous</b> GS	sponges (materials) xerogels		RECOMMENDEDCONSULT THE TERMS LISTED BELOW) airports
o	geographic distribution population inversion population theory predators		sponges (materials) xerogels  plates structural members	SN	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) airports deepwater terminals
	geographic distribution population inversion population theory predators statistics		sponges (materials) xerogels  plates structural members . plates (structural members)	SN	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) airports deepwater terminals drydocks
porcela	geographic distribution population inversion population theory predators statistics in	GS	sponges (materials) xerogels  plates structural members . plates (structural members) porous plates	SN	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) airports deepwater terminals drydocks harbors
	geographic distribution population inversion population theory predators statistics in ceramics		sponges (materials) xerogels  plates structural members . plates (structural members) . porous plates low density materials	SN	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) airports deepwater terminals drydocks harbors ports (openings)
porcela	geographic distribution population inversion population theory predators statistics in ceramics porcelain	GS	sponges (materials) xerogels  plates structural members . plates (structural members) porous plates	SN	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) airports deepwater terminals drydocks harbors
porcela	geographic distribution population inversion population theory predators statistics  in ceramics porcelain refractory materials	GS	sponges (materials) xerogels  plates structural members . plates (structural members) . porous plates low density materials	SN	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) airports deepwater terminals drydocks harbors ports (openings)
porcela	geographic distribution population inversion population theory predators statistics in ceramics porcelain	GS	sponges (materials) xerogels  plates structural members . plates (structural members) . porous plates low density materials porosity	SN	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) airports deepwater terminals drydocks harbors ports (openings) shipyards
porcela	geographic distribution population inversion population theory predators statistics  in ceramics porcelain refractory materials	GS RT porous	sponges (materials) xerogels  plates structural members . plates (structural members) . porous plates low density materials porosity  silicon	. SN RT	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) airports deepwater terminals drydocks harbors ports (openings) shipyards wharves
<b>porcela</b> GS	geographic distribution population inversion population theory predators statistics in ceramics porcelain refractory materials porcelain	GS RT porous	sponges (materials) xerogels  plates structural members . plates (structural members) porous plates low density materials porosity  silicon ed September 1995)	· SN RT ports (c	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) airports deepwater terminals drydocks harbors ports (openings) shipyards wharves penings)
<b>porcela</b> GS	geographic distribution population inversion population theory predators statistics in ceramics porcelain refractory materials porcelain ceramic coatings enamels	GS RT porous	sponges (materials) xerogels  plates structural members . plates (structural members) . porous plates low density materials porosity  silicon ad September 1995) chemical elements	· SN RT ports (c	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) airports deepwater terminals drydocks harbors ports (openings) shipyards wharves  penings) openings
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porcela GS RT Pores USE porosit DEF in a soli UF GS	geographic distribution population inversion population theory predators statistics  in ceramics . porcelain refractory materials . porcelain ceramic coatings enamels glass glazes silicon dioxide vitreous materials vitrification  porosity  y The volume fraction of voids contained d, often expressed as a percent. pores porosity . microporosity aquifers buoyancy compressibility defects density density (mass/volume) formations gas injection hole distribution (mechanics) hygral properties impregnating infiltration interstices	porous (addi GS  RT  porous GS  RT  porphir GS  RT	sponges (materials) xerogels  plates structural members . plates (structural members) . porous plates low density materials porosity  silicon ad September 1995) chemical elements . metalloids . silicon . porous silicon porous materials . porous silicon cathodoluminescence conduction bands electroluminescence light sources photoluminescence porosity  walls walls . porous walls ediffusers  des organometallic compounds . porphines chlorophylls hemoglobin  ra plants (botany)	ports (c GS RT Portuga GS RT Portugu (adde GS	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) airports deepwater terminals drydocks harbors ports (openings) shipyards wharves  penings) openings . ports (openings) apertures cavities ducts exhaust systems orifices outlets ports vents windows windows (apertures)  all nations . Portugal Azores Europe Portuguese space program  lese space programs Space programs Portugals space programs Portuguese space program Portugal
porcela GS RT Pores USE porosit DEF in a soli UF GS	geographic distribution population inversion population theory predators statistics  in ceramics . porcelain refractory materials . porcelain ceramic coatings enamels glass glazes silicon dioxide vitreous materials vitrification  porosity  y The volume fraction of voids contained d, often expressed as a percent pores porosity . microporosity aquifers buoyancy compressibility defects density (mass/volume) formations gas injection hole distribution (mechanics) hygral properties impregnating infiltration	porous (addi GS  RT  porous GS  RT  porphir GS  RT	sponges (materials) xerogels  plates structural members . plates (structural members) . porous plates low density materials porosity  silicon ed September 1995) chemical elements . metalloids . silicon . porous silicon porous materials . porous silicon cathodoluminescence conduction bands electroluminescence light sources photoluminescence porosity  walls walls diffusers  des organometallic compounds . porphines chlorophylls hemoglobin  ra plants (botany) . algae	ports (c GS RT Portuga GS RT Portugu (adde GS	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) airports deepwater terminals drydocks harbors ports (openings) shipyards wharves  penings) openings . ports (openings) apertures cavities ducts exhaust systems orifices outlets evints windows windows (apertures)  all nations . Portugal . Azores Europe Portuguese space program ad August 1990) programs . Space programs . European space program Portugal  on missiles missiles
porcela GS RT Pores USE porosit DEF in a soli UF GS	geographic distribution population inversion population theory predators statistics  in ceramics . porcelain refractory materials . porcelain ceramic coatings enamels glass glazes silicon dioxide vitreous materials vitrification  porosity  y The volume fraction of voids contained d, often expressed as a percent. pores porosity . microporosity aquifers buoyancy compressibility defects density density (mass/volume) formations gas injection hole distribution (mechanics) hygral properties impregnating infiltration interstices	porous (addi GS  RT  porous GS  RT  porphir GS  RT	sponges (materials) xerogels  plates structural members . plates (structural members) . porous plates low density materials porosity  silicon ed September 1995) chemical elements . metalloids . silicon porous silicon porous materials . porous silicon cathodoluminescence conduction bands electroluminescence light sources photoluminescence porosity  walls walls . porous walls e diffusers  es organometallic compounds . porphines chlorophylls hemoglobin  ra plants (botany) . algae . porphyra	ports (c GS RT Portuga GS RT Portugu (adde GS	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) airports deepwater terminals drydocks harbors ports (openings) shipyards wharves  penings openings openings ports (openings) apertures cavities ducts exhaust systems orifices outlets ports vents windows windows (apertures)  all nations Portugal Azores Europe Portuguese space program  lese space programs Space programs Space programs Portugal  Portugal  Portuguese space program  Portugal  Portuguese space program  Portugal  Portuguese space program  Portugal  Portuguese space program  Portugal  Portugal  Portugal  Portugal  Portuguese space program  Portugal
porcela GS RT Pores USE porosit DEF in a soli UF GS	geographic distribution population inversion population theory predators statistics in ceramics porcelain refractory materials porcelain refractory materials spaces enamels glass glazes silicon dioxide vitreous materials vitrification  porosity  y  The volume fraction of voids contained d, often expressed as a percent pores porosity microporosity aquifers buoyancy compressibility defects density density (mass/volume) formations gas injection hole distribution (mechanics) hygral properties impregnating infiltration interstices leakage moisture resistance	porous (add/) GS  RT  porous GS  RT  porphir GS  RT  porphy GS	sponges (materials) xerogels  plates structural members . plates (structural members) . porous plates low density materials porosity  silicon ad September 1995) chemical elements . metalloids . silicon porous silicon porous materials . porous silicon cathodoluminescence conduction bands electroluminescence light sources photoluminescence porosity  walls walls . porous walls e diffusers  tes organometallic compounds . porphines chlorophylls hemoglobin  ra plants (botany) . algae . porphyra	ports (c GS RT Portuga GS RT Portugu (adde GS	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) airports deepwater terminals drydocks harbors ports (openings) shipyards wharves  penings) openings . ports (openings) apertures cavities ducts exhaust systems orifices outlets evints windows windows (apertures)  all nations . Portugal . Azores Europe Portuguese space program ad August 1990) programs . Space programs . European space program Portugal  on missiles missiles
porcela GS RT Pores USE porosit DEF in a soli UF GS	geographic distribution population inversion population theory predators statistics  in ceramics . porcelain refractory materials . porcelain ceramic coatings enamels glass glazes silicon dioxide vitreous materials vitrification  porosity  The volume fraction of voids contained d, often expressed as a percent. pores porosity aquifers buoyancy compressibility defects density density (mass/volume) formations gas injection hole distribution (mechanics) hygral properties impregnatting infiltration interstices leakage	porous (add) (GS)  RT  porous (GS)  RT  porphir (GS)  RT  porphy (GS)	sponges (materials) xerogels  plates structural members . plates (structural members) . porous plates low density materials porosity  silicon ed September 1995) chemical elements . metalloids . silicon porous silicon porous materials . porous silicon cathodoluminescence conduction bands electroluminescence light sources photoluminescence porosity  walls walls . porous walls e diffusers  es organometallic compounds . porphines chlorophylls hemoglobin  ra plants (botany) . algae . porphyra	ports (c GS RT Portuga GS RT Portugu (adde GS	RECOMMENDEDCONSULT THE TERMS LISTED BELOW) airports deepwater terminals drydocks harbors ports (openings) shipyards wharves  penings) openings . ports (openings) apertures cavities ducts exhaust systems orifices outlets ports vents windows windows windows (apertures)  Il nations . Portugal Azores Europe Portuguese space program and August 1990) programs European space program Portugal Drygon missiles missiles missiles ballistic missiles

	fleet ballistic missiles Poseidon missiles	RT	spacecraft position indicators aircraft instruments		. positive ions cations
RT	ballistic missile submarines	пі	altimeters		formyl ions
• • • • • • • • • • • • • • • • • • • •	guided missile submarines		beacons		vanadyl radical
	sea launching		distance measuring equipment		hydronium ions
B			flight instruments	RT	
	on satellite artificial satellites		Global Positioning System		hydrogen ions
GS	. French satellites		head-up displays		ion density (concentration) ionic mobility
	. Poseidon satellite		navigation aids navigation instruments		ionospheric ion density
RT	TOPEX		plotters		magnetospheric ion density
			position sensing		metal ions
∞ positio			range finders		molecular ions
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		rocket-borne instruments		monatomic molecules
	LISTED BELOW)		sextants		polyatomic molecules
RT	attitude (inclination)		solar compasses		protons
	position (location)		sound localization		trivalent ions valence
	position (title)	positio	n sensing		valerice
positio	n (location)	RT	computer vision	positro	n annihilation
UF	localization		electro-optics	UF	electron-positron annihilation
	location		position (location)	GS	annihilation reactions
GS	position (location)		position indicators		positron annihilation
	. solar position		robotics	RT	antiparticles
RT	altitude	positio	aina		electron-positron pairs
	astrolabes	GS	positioning		elementary particles matter-antimatter propulsion
	azimuth bearing (direction)	ao	. formation flying		nuclear particles
	collating		. satellite doppler positioning		pair production
	collocation		. stationkeeping		particles
	coordinates	RT	adjusting		•
	detection		alignment	positro	
	distance		ambiguity	RT	atoms
	ephemerides		collating collocation		excitons
	exposure		displacement	positro	ne
٥	∘ fixing geometry		distributing		Subatomic particles which are identical
	latitude	۰	o distribution		trons in atomic mass, theoretical rest
	longitude		exposure	mass, a	and energy, but opposite in sign.
	misalignment		fitting	GS	antimatter
	navigation	0	fixing		. antiparticles
	orbital position estimation		Global Positioning System		positrons
	orientation		GLONASS instrument orientation		particles . charged particles
	∘ points ∘ position		o joining		positrons
·	position errors		latitude measurement		. elementary particles
	position sensing		longitude measurement		antiparticles
	positioning		look angles (electronics)		positrons
	radar beacons		navigation		fermions
	sites	0	orientation		leptons
	sound ranging		ply orientation		positrons . nuclear particles
	spatial distribution		position (location) position errors		antiparticles
	spherical coordinates stations		radio navigation		positrons
	surveys		relocation	RT	electron-positron pairs
	tracking (position)	0	∘ setting		electron-positron plasmas
	3 (1-1-1-1)		spacing		pair production
positio			the determinant		
RT	employee relations		ning devices (machinery)	post bo	post propulsion system
	evaluation grade	do	positioning devices (machinery) . booms (equipment)	ΠI	ascent trajectories propulsion
٥	ograde personnel		. cams		propulsion system configurations
۰	o position		. jigs		rocket engines
	ratings	RT ∘	o devices		spacecraft propulsion
			holders	۰	∘ systems
•	n errors		jacks (lifts)		trajectory control
GS	errors	0	machinery		miliare
	. position errors boresight error		slewing	postam	amplifiers
RT	astrolabes	positive	e feedback	ao	. postamplifiers
• • • • • • • • • • • • • • • • • • • •	error signals		Feedback which results in increasing	RT	preamplifiers
	navigation	the amp	olification. Used for regenerative feed-		•
	optical correction procedure	back.			ast nuclear radiation
	orbit determination	UF	regenerative feedback	GS	nuclear radiation
	orbital position estimation	GS	feedback	DT	. post-blast nuclear radiation
	position (location)	RT	. positive feedback	RT	fallout half life
	positioning velocity errors	ΠI	amplification feedback amplifiers		radiant flux density
	volunty official		multivibrators	۰	∘ radiation
positio	n 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		or costions
	spacecraft position indicators	positive	aione	posteri RT	or sections
	measuring instruments . indicating instruments		Group of atoms which has acquired a	ΠI	anatomy dorsal sections
	position indicators		electric charge by the loss of one or		33.34 0001010
	plan position indicators	more el		postflio	ıht analysis
	radio direction finders		ions		∞ analyzing

∞ performance . . . potassium isotopes . potassium chromates postmission analysis (spacecraft) . . . . potassium 38 . nuclides potassium compounds postlaunch reports . . isotopes GS potassium compounds DEF Memoranda issued following space-. . . potassium isotopes alum craft launchings to report launch data, the . potassium 38 . nepheline launch vehicle performance, orbital elements . . . radioactive isotopes . potassium bromides (expected and measured), and current status. .... potassium 38 . potassium chlorides documents metals . potassium chromates . postlaunch reports . alkali metals . potassium hydrides reports . . potassium . potassium hydroxides postlaunch reports . . . potassium isotopes . potassium iodides prelaunch summaries .... potassium 38 . potassium nitrates spacecraft launching . potassium oxides spacecraft performance potassium 39 potassium perchlorates summaries GS chemical elements . potassium peroxides . alkali metals . potassium phosphates postmission analysis (spacecraft) potassium silicates . . potassium DEF A broader term than postflight analysis  $RT \propto \text{alkali metal compounds}$ ... potassium isotopes which deals with the scientific aspects of a . potassium 39 ∞ chemical compounds mission. ∞ metal compounds . nuclides RT flight tests . . isotopes postflight analysis . . . potassium isotopes potassium hydrides .. potassium 39 GS hydrogen compounds postulates metals . hydrides USE axioms . alkali metals . . metal hydrides . . potassium posture potassium hydrides ... potassium isotopes GS posture potassium compounds .... potassium 39 head down tilt potassium hydrides head up tilt potassium 40 human body potassium hydroxides orthostatic tolerance GS chemical elements GS bases (chemical) physical fitness . alkali metals . alkalies . . potassium potassium hydroxides potable liquids . . . potassium isotopes hydroxides GS liquids .... potassium 40 potassium hydroxides . potable liquids . nuclides potassium compounds . beverages . . isotopes potassium hydroxides . . . wines . . . potassium isotopes .... potassium 40 . potable water potassium iodides RT . . . radioactive isotopes purity potassium 40 GS halogen compounds . halides potable water metals GS liquids . . metal halides . alkali metals . potable liquids . . . alkali halides . . potassium potable water . potassium iodides . . . potassium isotopes . iodine compounds water .... potassium 40 .. iodides . potable water . potassium iodides cold water potassium alloys potassium compounds conservation GS alloys potassium iodides consumables (spacecrew supplies) . potassium alloys drought fresh water potassium isotopes ground water potassium bromides GS chemical elements GS halogen compounds limnology . alkali metals . bromine compounds Modular Integrated Utility System . . potassium . . bromides ... potassium isotopes ... potassium bromides purification . . . . potassium 38 . halides sanitation .... potassium 39 . . bromides springs (water) . . . . potassium 40 . potassium bromides water management . nuclides . . metal halides water resources . . isotopes potassium bromides water tables ... potassium isotopes potassium compounds water treatment . . . . potassium 38 potassium bromides . . . . potassium 39 potassium . . . potassium 40 GS chemical elements potassium channels (biology) metals . alkali metals (added August 2002) . alkali metals ... potassium USE ion channels (biology) . . potassium . . . liquid potassium ... potassium isotopes potassium isotopes .... potassium 38 potassium chlorides . . . . potassium 38 . . . . potassium 39 GS halogen compounds . . . . potassium 39 .... potassium 40 . chlorine compounds . . . . potassium 40 . . chlorides metals ... potassium chlorides potassium nitrates . alkali metals . halides GS nitrogen compounds . . potassium . . chlorides . nitrates ... liquid potassium . potassium chlorides . . inorganic nitrates . . . potassium isotopes . . metal halides . . . potassium nitrates . . . . potassium 38 . potassium chlorides potassium compounds ... potassium 39 potassium compounds . potassium nitrates . . . potassium 40 potassium chlorides electrolyte metabolism potassium oxides kreep

potassium chromates

. chromates

potassium 38

chemical elements

. alkali metals

. . potassium

chromium compounds

potassium compounds

. potassium chromates

GS chalcogenides

. oxides

. . metal oxides

. . . potassium oxides

potassium compounds

. potassium oxides	Froude number	West Virginia
potassium perchlorates	geopotential	potting compounds
GS halogen compounds	internal energy kinetic energy	RT ∞ compounds
. chlorine compounds	Lagrangian function	encapsulating
perchlorates	Morse potential	insulation
potassium perchlorates	∞ potential	
potassium compounds		pouring RT casting
. <b>potassium perchlorates</b> RT explosives	potential fields	castings
solid rocket propellants	RT field theory (physics)  ∞ potential	ouo.ii.go
	potorniai	powder (particles)
potassium peroxides	potential flow	DEF An aggregate of discrete particles that
GS chalcogenides . oxides	UF irrotational flow	are usually within the size range 1 to 1,000 mm. GS particles
anhydrides	GS fluid flow	. powder (particles)
peroxides	. <b>potential flow</b> equipotentials	fines
potassium peroxides	RT Cartan space	metal powder
potassium compounds	heat transmission	platinum black
. potassium peroxides	inviscid flow	powdered aluminum sintered aluminum powder
potassium phosphates	vorticity	RT compressibility
GS phosphorus compounds	notontial gradients	crop dusting
phosphates	potential gradients  DEF In general, the local space rate of	dust
potassium phosphates	change of any potential, as the gravitational	explosives
potassium compounds	potential gradient or the velocity potential gradi-	flakes
. potassium phosphates	ent.	flour (food) granular materials
potassium silicates	GS gradients	obsidian
GS potassium compounds	. <b>potential gradients</b> RT pressure gradients	pumice
. potassium silicates	spark gaps	size separation
silicon compounds	temperature gradients	navidas matalli
. silicates	, p. 1	powder metallurgy
<b>potassium silicates</b> RT minerals	potential theory	DEF The art of producing metal powders and of the utilization of metal powders for the
TTI TIMOTOLO	RT differential equations	production of massive materials and shaped
potatoes	Jacobi integral	objects.
GS farm crops	Lennard-Jones potential ∞ potential	RT alloying
. <b>potatoes</b> plants (botany)	stream functions (fluids)	alloys
. potatoes	∞ theories	autoclaving cermets
vegetables		combustion synthesis
. potatoes	∞ potentiometers	comminution
RT ∞ food	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	compacting
∞ potential	LISTED BELOW)	composite materials
SN (USE OF A MORE SPECIFIC TERM IS	DEF Instruments for measuring differences in electric potential by balancing the unknown	electrodeposition
RECOMMENDEDCONSULT THE TERMS	voltage against a variable known voltage. If the	liquid phase sintering low density materials
LISTED BELOW) RT Coulomb potential	balancing is accomplished automatically, the	metal matrix composites
electric potential	instrument is called a self-balancing potentiom-	metal particles
geopotential	eter. A variable electric resistor.	metal powder
ionization potentials	RT potentiometers (instruments)	∞ metallurgy
Klein-Dunham potential	potentiometers (resistors)	mixed crystals porous materials
myoelectric potentials nucleon potential	potentiometers (instruments)	preforms
open circuit voltage	GS measuring instruments	reaction bonding
plasma potentials	. potentiometers (instruments)	sintered aluminum powder
potential energy	RT bolometers	sintering
potential fields	electric potential electrical measurement	vacuum melting
potential theory	electrometers	powdered aluminum
Yukawa potential	∞ potentiometers	GS particles
potential energy	thermocouple pyrometers	. metal particles
DEF Energy possessed by a body by virtue	thermocouples	metal powder
of its position in a gravity field in contrast with	voltmeters	powdered aluminum
kinetic energy, that possessed by virtue of its motion.	potentiometers (resistors)	sintered aluminum powder . powder (particles)
GS potential energy	GS attenuators	metal powder
. electric potential	. resistors	powdered aluminum
. bioelectric potential	potentiometers (resistors)	sintered aluminum powder
contact potentials	RT ∞ potentiometers	RT aluminum
Coulomb potential	potentiometric analysis	lithium aluminum hydrides
high voltages Lienard potential	UF potentiometry	powdered metals
. low voltage	GS chemical tests	USE metal powder
open circuit voltage	. chemical analysis	
photovoltages	potentiometric analysis	∞ power
quantum wells	notontiomatry	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS
photoexcitation	potentiometry USE potentiometric analysis	LISTED BELOW)
spike potentials threshold voltage	COL POSSILIONICATO ANALYSIS	RT electric generators fluid power
geopotential height	Potez aircraft	flux (rate)
ionization potentials	RT ∞ aircraft	flux density
nuclear potential	<b>.</b>	horsepower
. plasma potentials	Potomac River Valley (MD-VA-WV)	resolution
RT chemical energy electric energy storage	GS valleys . Potomac River Valley (MD-VA-WV)	thrust
embedded atom method	RT District of Columbia	power amplifiers
∞ energy	Maryland	GS amplifiers
energy storage	Virginia	power amplifiers

RT amplidynes cyclotron resonance devices feedback amplifiers magnetic amplifiers parametric amplifiers push-pull amplifiers transistor amplifiers traveling wave amplifiers

## power beaming

(added November 1989) beamed power power beaming

laser power beaming . microwave power beaming

satellite power transmission energy conversion laser propulsion

microwave transmission ∞ 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

efficiency GS

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

DEF 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.

GS controllers

. power factor controllers

RT current regulators electric motors energy conservation energy conversion efficiency induction motors power efficiency voltage regulators

## power gain

DEF 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 blunt bodies slender bodies

#### power limited spacecraft

RT ∞ spacecraft

## power limiters

attenuators clamping circuits clipper circuits limiter circuits

#### power lines

GS transmission lines power lines

RT 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) RT energy dissipation power efficiency

power modules (STS)

DEF Modules for providing power for payloads for STS and mission dependent equipment

GS modules

. power modules (STS)

RT 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 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 USE 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

spectra

. power spectra

. cepstra 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

. wind tunnel models

. powered models RT aircraft models dynamic models

## Poynting theorem

theorems GS

Poynting theorem

RT ∞ electric power electromagnetic radiation energy transfer Maxwell equation

vector analysis

## Poynting-Robertson effect

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

PPI (position indicators)

USE plan position indicators

PPM (modulation)

USE pulse position modulation

PPT (rocket engines) (added April 2001) pulsed plasma thrusters

USE polypyrroles

practices

USE procedures

#### Praesepe star clusters

celestial bodies

- . star clusters
- . . open clusters
- ... Praesepe star clusters
- . stars
- . Praesepe star clusters

RT ∞ clusters

#### praetersonic devices

microwave frequencies piezoelectric transducers thin films ultrahigh frequencies

prairies

USE grasslands

### Prandtl number

DEF A dimensionless number representing the ratio of momentum transport to heat transport in a flow. (After Ludwig Prantl, 1875-1953, German scientist).

GS dimensionless numbers

. Prandtl number

ratios

## Prandtl number

forced convection Grashof number heat transfer inviscid flow momentum transfer Nusselt number Peclet number Reynolds number

Schmidt number thermodynamic properties

viscous flow

## Prandtl-Meyer expansion

expansion

## Prandtl-Meyer expansion

Blasius equation Falkner-Skan equation flow deflection laminar flow method of characteristics Newton pressure law supersonic flow two dimensional flow

### praseodymium

GS chemical elements

- . rare earth elements
- . . praseodymium
- . . . praseodymium isotopes metals
- . rare earth elements
- . praseodymium
  . . praseodymium isotopes

didymium

praseodymium compounds

praseodymium 144

USE praseodymium isotopes

## praseodymium compounds

(added August 1990)

GS rare earth compounds

praseodymium compounds

RT ∞ chemical compounds ∞ metal compounds praseodymium

## praseodymium isotopes

praseodymium 144 chemical elements

. nuclides

. . isotopes

... praseodymium isotopes

. rare earth elements

. . praseodymium

## ... praseodymium isotopes

metals

- . rare earth elements
- . . praseodymium
- ... praseodymium isotopes

#### preamplifiers

Amplifiers, the primary function of which is to raise the output of a low level source to an intermediate level so that the signal may be further processed without appreciable degradation in the signal-to-noise ratio. In radar amplifiers separated from the remainder of the receiver and located so as to provide the shortest possible input circuit path from the antenna so as to avoid deterioration of the signal-tonoise ratio. Used for preselectors.

preselectors UF GS amplifiers

preamplifiers

intermediate frequency amplifiers low noise mixing circuits postamplifiers signal detection signal detectors signal reception transistor amplifiers voltage amplifiers

### preburners

pressure vessels GS preburners pumps turbine pumps

## Precambrian period

Baltic Shield (Europe) Cambrian Period Canadian Shield geology paleontology Paleozoic Era

precautions

USE accident prevention

DEF Change in the direction of the axis of rotation of a spinning body, as a gyro, when acted upon by a torque.

gyration

## precession

. . Larmor precession . . proton precession

. quenching (atomic physics)

coning motion
Earth orientation gyroscopes gyroscopic stability Larmor radius libration muon spin rotation

nutation

polar wandering (geology)

retrograde orbits

rotation

vortex precession

precious metals

USE noble metals

## precipitates

(EXCLUDES METEOROLOGICAL SN

PRECIPITATES) alloys

grain boundaries microstructure precipitation (chemistry) precipitation hardening reaction products

∞ precipitation

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

RT drop size

electron precipitation

falling

hydrometallurgy materials recovery particle precipitation precipitation (chemistry) precipitation (meteorology) proton precipitation

## precipitation (chemistry)

The separation of a new phase from solid or liquid solution, usually with changing conditions of temperature or pressure or both.

agglomeration cementation ∞ chemistry coagulation colloiding concentrating crystallization deposition dissolving filtration flocculating

hydrometallurgy materials recovery Ostwald ripening precipitates ∞ precipitation

precipitators ∞ saturation

saturation (chemistry)

∞ separation settling solubility supersaturation unsaturation (chemistry)

## precipitation (meteorology)

DEF The precipitation of water from the atmosphere in the form of hail, mist, rain, sleet, and snow. Deposits of dew, fog, and frost are excluded.

#### precipitation (meteorology) GS

- . graupel
- . hail . rain
- . . acid rain . snow

snow cover Alpine meteorology anvil clouds

atmospheric moisture CALIPSO (Pathfinder satellite)

cap clouds cirrocumulus clouds cirrostratus clouds climatology cloud physics cloud seeding

clouds (meteorology) CloudSat

cumulonimbus clouds

cyclones dew

drainage patterns

drought flood damage flood predictions floods

fog

	for diaparaal		confidence limits		. performance prediction
	fog dispersal hailstorms		confidence limits consistency		. Roshko prediction
	humidity		definition		. technological forecasting
	hydrological cycle				Delphi method (forecasting)
	, ,		dynamic characteristics		
	hydrology hydrology models		errors geometric dilution of precision		pattern method (forecasting) probe method (forecasting)
	hydrometeorology		high resolution		profile method (forecasting)
	hydrometeors		hysteresis		weather forecasting
	International Hydrological Decade		quality		long range weather forecasting
	meteorological parameters				0 9
	meteorology		quality control		nowcasting numerical weather forecasting
	mist		reliability resolution		statistical weather forecasting
			schedules		. hindcasting
	monsoons		sensitivity	RT	
	nephanalysis nimbostratus clouds		sharpness	пі	confidence limits
	oprecipitation	c	tolerances (mechanics)		contingency
0			truncation errors		estimates
	precipitation measurement				maximum likelihood estimates
	rainmaking		validity		
	rainstorms	procisi	on guided projectiles		mission planning
	saturation	DEF	Missiles guided by precise laser radia-		prediction recording
	snowstorms	tion.	wilssiles guided by precise laser radia-	,	∞ projection risk
	storm damage	GS	missiles		
	storm enhancement	do	. precision guided projectiles		risk assessment
	storm suppression		projectiles		schedules
	storms		' '		
	storms (meteorology)		. precision guided projectiles	predict	tor-corrector methods
	water		weapons	GS	analysis (mathematics)
	water resources		. guns (ordnance)		. numerical analysis
	watersheds		artillery		approximation
	weather		precision guided projectiles		predictor-corrector methods
	weather forecasting		. warheads		iteration
	tation bordoning	БТ	precision guided projectiles		predictor-corrector methods
	tation hardening	HI a	∞ bombs	RT	differential equations
UF	age hardening		terminal ballistics		iterative solution
	dispersion precipitation hardening		444		
00	strain aging		ditioning	predict	ore
GS	hardening (materials)	GS	preparation	USE	predictions
	precipitation hardening		. preconditioning	USL	predictions
	maraging	RT «	∞ conditioning		
RT	cold hardening			preem	
	eutectic composites	precoo	•	RT	claiming
	heat treatment	GS	cooling		prevention
	precipitates		. precooling		
	solid solutions	RT	regenerative cooling	prefirir	ng tests
	strain hardening			. GS	_
	supersaturation	predate			. prefiring tests
	time temperature parameter	RT	animals	RT	captive tests
			ecology		checkout
	tation measurement		ecosystems		ground tests
	ed June 2003)		populations		preflight analysis
	Techniques and processes used to				prelaunch tests
	e the amount and type of precipitation.		ite calculus		rocket engine design
RT o	∞ measurement	•	ed September 1993)		space vehicle checkout program
	meteorological instruments	GS	mathematical logic		static tests
	meteorological radar		. predicate calculus		test firing
	meteorological satellites	RT	artificial intelligence		test stands
	precipitation (meteorology)	c	∘ logic		∞ tests
	rain		theorem proving		10010
	rain gages				
	snow		ite logic		ht analysis
			ed September 1993)	RT	∞ analyzing
precipi	tation particle measurement	RT	artificial intelligence		prefiring tests
GS	size determination		linguistics		systems analysis
	. precipitation particle	c	∘ logic	•	∞ tests
	measurement		programming languages		trajectory analysis
RT	drop size		semantics		weight analysis
	meteorological radar				
	particle size distribution	predict	ion analysis techniques	preflig	ht operations
	particles	GS	scheduling	GS	preflight operations
			. prediction analysis techniques		. aircraft runup
precipi	tators	RT «	∞ analyzing		. countdown
GS	separators		parameter identification	RT	crew procedures (preflight)
	. precipitators		performance prediction		flight operations
			system identification		ground tests
RT	electrostatic precipitators				
	electrostatic precipitators air filters		trend analysis		∞ operations
			trend analysis		∞ operations prelaunch tests
	air filters	predict	trend analysis ion recording	•	prelaunch tests
	air filters concentrators	predict GS	ion recording recording	•	
	air filters concentrators dust collectors		ion recording recording prediction recording		prelaunch tests refueling
	air filters concentrators dust collectors precipitation (chemistry)		ion recording recording	prefoc	prelaunch tests refueling using
precisio	air filters concentrators dust collectors precipitation (chemistry) thickeners (equipment)	GS	ion recording recording prediction recording	prefoc	prelaunch tests refueling using focusing
precision	air filters concentrators dust collectors precipitation (chemistry) thickeners (equipment)	GS	ion recording recording . prediction recording predictions	<b>prefoc</b> GS	prelaunch tests refueling  using focusing . prefocusing
DEF	air filters concentrators dust collectors precipitation (chemistry) thickeners (equipment) on	GS RT	ion recording recording . prediction recording predictions	<b>prefoc</b> GS	prelaunch tests refueling using focusing
DEF defined	air filters concentrators dust collectors precipitation (chemistry) thickeners (equipment)  on The quality of being exactly or sharply	GS RT predict	ion recording recording . prediction recording predictions	<b>prefoc</b> GS	prelaunch tests refueling  using focusing . prefocusing
DEF defined a repre	air filters concentrators dust collectors precipitation (chemistry) thickeners (equipment)  on The quality of being exactly or sharply or stated. A measure of the precision of	GS RT predict UF	ion recording recording . prediction recording predictions ions predictors	<b>prefoc</b> GS	prelaunch tests refueling  using focusing . prefocusing ∞ optics
DEF defined a repre able alt	air filters concentrators dust collectors precipitation (chemistry) thickeners (equipment)  on  The quality of being exactly or sharply or stated. A measure of the precision of sentation is the number of distinguish-	GS RT predict UF	ion recording recording prediction recording predictions ions predictors predictors predictors	prefoc GS RT	prelaunch tests refueling  using focusing . prefocusing ∞ optics
DEF defined a repre able all which is	air filters concentrators dust collectors precipitation (chemistry) thickeners (equipment)  on  The quality of being exactly or sharply or stated. A measure of the precision of sentation is the number of distinguish- ternatives from which it was selected,	GS RT predict UF	ion recording recording recording prediction recording predictions ions predictors predictors flood predictions	prefoc GS RT prefori	prelaunch tests refueling  using focusing . prefocusing ∞ optics  ms
DEF defined a repre able all which is	air filters concentrators dust collectors precipitation (chemistry) thickeners (equipment)  on  The quality of being exactly or sharply or stated. A measure of the precision of sentation is the number of distinguish- ternatives from which it was selected, a sometimes indicated by the number of	GS RT predict UF	recording recording prediction recording predictions  ions predictors predictions flood predictions impact prediction	prefoc GS RT prefori	prelaunch tests refueling  using focusing . prefocusing ∞ optics  ms blanks
DEF defined a repre able all which is significa	air filters concentrators dust collectors precipitation (chemistry) thickeners (equipment)  on The quality of being exactly or sharply or stated. A measure of the precision of sentation is the number of distinguish- ternatives from which it was selected, s sometimes indicated by the number of ant digits it contains. Used for exactness.	GS RT predict UF	ion recording recording prediction recording predictions  ions predictors predictions flood predictions impact prediction linear prediction noise prediction	prefoc GS RT prefori	prelaunch tests refueling  using focusing . prefocusing ∞ optics  ms blanks composite materials
DEF defined a repre able all which is significa UF	air filters concentrators dust collectors precipitation (chemistry) thickeners (equipment)  on The quality of being exactly or sharply or stated. A measure of the precision of sentation is the number of distinguish- ternatives from which it was selected, s sometimes indicated by the number of ant digits it contains. Used for exactness.  exactness	GS RT predict UF	ion recording recording . prediction recording predictions ions predictors predictions . flood predictions . impact prediction . linear prediction	prefoc GS RT prefori	prelaunch tests refueling  using focusing . prefocusing ∞ optics  ms blanks composite materials molds

resin transfer molding	mixing _	freezing
pregnancy	premixing	frozen foods
pregnancy RT birth	reacting flow turbulent combustion	impregnating irradiation
	turbulent flames	packaging
preheaters	turbulent names	preservatives
USE heating equipment	premixing	radiation effects
	DEF The mixing of ingredients prior to a	refrigerating
preheating	specified action (mixing of fuel and air prior to	∞ storage
USE heating	ignition in combustion, for example).	weatherproofing
pre-Imbrian period	GS mixing	Book the effect of the
DEF One of four stratigraphic classifications	. premixing	Presidential reports
adopted for displaying (on maps) the geological	RT fuel-air ratio	DEF Formal reports originated by the President or his office.
ages of major features on the moon.	fuels gas mixtures	GS documents
RT lunar composition	homogenizing	. Presidential reports
lunar craters	ignition	reports
lunar evolution	jet mixing flow	. Presidential reports
lunar geology lunar rocks	premixed flames	RT congressional reports
iuliai locks	spraying	papers
preimpregnation		records
RT filament winding	preparation	prociptoring
pultrusion	GS preparation	presintering USE <b>sintering</b>
	. preconditioning . pretreatment	OOL Sintering
prejudices	prestressing	presses
RT economics	. prewhirling	GS presses
irrationality	. prewhitening	. rams (presses)
management ∞ properties	RT assembling	RT compacting
psychology	premature operation	hammers
payonology	∞ priming	machine tools
prelaunch problems		platens
RT countdown	prepolymers	∞ pressing pressing (forming)
∞ problems	DEF Polymers of degrees of polymerization	punches
reliability	between that of the monomer or monomers, and	tools
spacecraft reliability	the final polymer. GS prepolymers	10010
prelaunch summaries	. dimers	∞ pressing
DEF Summaries prior to launch of the	. trimers	SN (USE OF A MORE SPECIFIC TERM IS
preparations and parameters of the mission.	RT monomers	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)
GS summaries	∞ polymers	RT cold pressing
. prelaunch summaries		compacting
RT mission planning	prepregs	compressing
postlaunch reports	DEF The reinforcing materials containing or	hot isostatic pressing
spacecraft launching	combined with the full complement or resin	hot pressing
and the same of the same	before molding operations in the production of	platens
prelaunch tests	composite materials.  RT composite materials	presses
GS ground tests	epoxy resins	pressing (forming)
. prelaunch tests static firing	functionally gradient materials	pressing (forming)
RT captive tests	laminates	GS forming techniques
cold flow tests	resin matrix composites	. pressing (forming)
countdown	·	blanking (cutting)
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	image processing	hot isostatic pressing RT cold pressing
preflight operations	image processing presbyopia	hot isostatic pressing  RT cold pressing  compacting
preflight operations spacecraft maintenance	image processing	hot isostatic pressing  RT cold pressing  compacting  extruding
preflight operations spacecraft maintenance static tests	image processing presbyopia	hot isostatic pressing RT cold pressing compacting extruding forging
preflight operations spacecraft maintenance static tests test firing	image processing  presbyopia  RT vision	hot isostatic pressing RT cold pressing compacting extruding forging metal working
preflight operations spacecraft maintenance static tests	image processing  presbyopia RT vision  preselectors USE preamplifiers	hot isostatic pressing RT cold pressing compacting extruding forging metal working molds
preflight operations spacecraft maintenance static tests test firing test stands	image processing  presbyopia  RT vision  preselectors  USE preamplifiers  presentation	hot isostatic pressing RT cold pressing compacting extruding forging metal working
preflight operations spacecraft maintenance static tests test firing test stands	image processing  presbyopia RT vision  preselectors USE preamplifiers	hot isostatic pressing RT cold pressing compacting extruding forging metal working molds presses
preflight operations spacecraft maintenance static tests test firing test stands ∞ tests	image processing  presbyopia RT vision  preselectors USE preamplifiers  presentation RT information	hot isostatic pressing RT cold pressing compacting extruding forging metal working molds presses ∞ pressing pultrusion sizing (shaping)
preflight operations spacecraft maintenance static tests test firing test stands ∞ tests  preloading USE prestressing	image processing  presbyopia RT vision  preselectors USE preamplifiers  presentation RT information  preservatives	hot isostatic pressing RT cold pressing compacting extruding forging metal working molds presses ∞ pressing pultrusion
preflight operations spacecraft maintenance static tests test firing test stands ∞ tests  preloading USE prestressing  pre-main sequence stars	image processing  presbyopia RT vision  preselectors USE preamplifiers  presentation RT information  preservatives RT additives	hot isostatic pressing RT cold pressing compacting extruding forging metal working molds presses ∞ pressing pultrusion sizing (shaping) upsetting
preflight operations spacecraft maintenance static tests test firing test stands ∞ tests  preloading USE prestressing  pre-main sequence stars DEF Stars in which nuclear reactions that	image processing  presbyopia RT vision  preselectors USE preamplifiers  presentation RT information  preservatives RT additives ∞ agents	hot isostatic pressing RT cold pressing compacting extruding forging metal working molds presses ∞ pressing pultrusion sizing (shaping) upsetting  pressoreceptor reflexes
preflight operations spacecraft maintenance static tests test firing test stands ∞ tests  preloading USE prestressing  pre-main sequence stars DEF Stars in which nuclear reactions that take place in its core have not yet occurred.	image processing  presbyopia  RT vision  preselectors  USE preamplifiers  presentation  RT information  preservatives  RT additives  ∞ agents anticoagulants	hot isostatic pressing RT cold pressing compacting extruding forging metal working molds presses ∞ pressing pultrusion sizing (shaping) upsetting  pressoreceptor reflexes (added March 2001)
preflight operations spacecraft maintenance static tests test firing test stands ∞ tests  preloading USE prestressing  pre-main sequence stars  DEF Stars in which nuclear reactions that take place in its core have not yet occurred. GS celestial bodies	image processing  presbyopia RT vision  preselectors USE preamplifiers  presentation RT information  preservatives RT additives	hot isostatic pressing RT cold pressing compacting extruding forging metal working molds presses ∞ pressing pultrusion sizing (shaping) upsetting  pressoreceptor reflexes
preflight operations spacecraft maintenance static tests test firing test stands ∞ tests  preloading USE prestressing  pre-main sequence stars DEF Stars in which nuclear reactions that take place in its core have not yet occurred. GS celestial bodies . stars	image processing  presbyopia  RT vision  preselectors  USE preamplifiers  presentation  RT information  preservatives  RT additives  ∞ agents anticoagulants	hot isostatic pressing RT cold pressing compacting extruding forging metal working molds presses ∞ pressing pultrusion sizing (shaping) upsetting  pressoreceptor reflexes (added March 2001) USE baroreflexes
preflight operations spacecraft maintenance static tests test firing test stands ∞ tests  preloading USE prestressing  pre-main sequence stars DEF Stars in which nuclear reactions that take place in its core have not yet occurred. GS celestial bodies . stars protostars	image processing  presbyopia RT vision  preselectors USE preamplifiers  presentation RT information  preservatives RT additives	hot isostatic pressing RT cold pressing compacting extruding forging metal working molds presses ∞ pressing pultrusion sizing (shaping) upsetting  pressoreceptor reflexes (added March 2001) USE baroreflexes  pressoreceptors
preflight operations spacecraft maintenance static tests test firing test stands ∞ tests  preloading USE prestressing  pre-main sequence stars DEF Stars in which nuclear reactions that take place in its core have not yet occurred. GS celestial bodies . stars	image processing  presbyopia RT vision  preselectors USE preamplifiers  presentation RT information  preservatives RT additives	hot isostatic pressing RT cold pressing compacting extruding forging metal working molds presses ∞ pressing pultrusion sizing (shaping) upsetting  pressoreceptor reflexes (added March 2001) USE baroreflexes
preflight operations spacecraft maintenance static tests test firing test stands ∞ tests  preloading USE prestressing  pre-main sequence stars DEF Stars in which nuclear reactions that take place in its core have not yet occurred. GS celestial bodies . stars protostars pre-main sequence stars pre-main sequence stars	image processing  presbyopia  RT vision  preselectors  USE preamplifiers  presentation  RT information  preservatives  RT additives  ∞ agents  anticoagulants  antioxidants  neutralizers  penetrants  preserving	hot isostatic pressing RT cold pressing compacting extruding forging metal working molds presses ∞ pressing pultrusion sizing (shaping) upsetting  pressoreceptor reflexes (added March 2001) USE baroreflexes (added March 2001)
preflight operations spacecraft maintenance static tests test firing test stands ∞ tests  preloading USE prestressing  pre-main sequence stars DEF Stars in which nuclear reactions that take place in its core have not yet occurred. GS celestial bodies . stars protostars pre-main sequence stars T Tauri stars  RT main sequence stars star formation	image processing  presbyopia RT vision  preselectors USE preamplifiers  presentation RT information  preservatives RT additives	hot isostatic pressing RT cold pressing compacting extruding forging metal working molds presses ∞ pressing pultrusion sizing (shaping) upsetting  pressoreceptor reflexes (added March 2001) USE baroreflexes (added March 2001) USE baroreceptors (added March 2001) USE baroreceptors
preflight operations spacecraft maintenance static tests test firing test stands ∞ tests  preloading USE prestressing  pre-main sequence stars  DEF Stars in which nuclear reactions that take place in its core have not yet occurred. GS celestial bodies . stars . protostars pre-main sequence stars Tauri stars  RT main sequence stars  RT main sequence stars	image processing  presbyopia RT vision  preselectors USE preamplifiers  presentation RT information  preservatives RT additives ∞ agents anticoagulants antioxidants neutralizers penetrants preserving retardants stabilizers (agents)  preserving	metal working metal working molds presses  presses  pressing pultrusion sizing (shaping) upsetting  pressoreceptor reflexes (added March 2001) USE baroreceptors (added March 2001) USE baroreceptors
preflight operations spacecraft maintenance static tests test firing test stands ∞ tests  preloading USE prestressing  pre-main sequence stars DEF Stars in which nuclear reactions that take place in its core have not yet occurred. GS celestial bodies . stars protostars pre-main sequence stars T Tauri stars  RT main sequence stars star formation stellar evolution	image processing  presbyopia RT vision  preselectors USE preamplifiers  presentation RT information  preservatives RT additives ∞ agents anticoagulants antioxidants neutralizers penetrants preserving retardants stabilizers (agents)  preserving GS food processing	metal working metal working molds presses  presses  pressing pultrusion sizing (shaping) upsetting  pressoreceptor reflexes (added March 2001) USE baroreflexes (added March 2001) USE baroreceptors (added March 2001) USE baroreceptors (added March 2001) USE baroreceptors (sadded March 2001) USE baroreceptors
preflight operations spacecraft maintenance static tests test firing test stands ∞ tests  preloading USE prestressing  pre-main sequence stars  DEF Stars in which nuclear reactions that take place in its core have not yet occurred. GS celestial bodies stars . protostars . pre-main sequence stars . T Tauri stars  RT main sequence stars star formation stellar evolution  premature operation	image processing  presbyopia  RT vision  preselectors  USE preamplifiers  presentation  RT information  preservatives  RT additives  ∞ agents anticoagulants anticoxidants neutralizers penetrants preserving retardants stabilizers (agents)  preserving  GS food processing preserving reserving reserving reserving reserving reserving reserving reserving	RT cold pressing compacting extruding forging metal working molds presses ∞ pressing pultrusion sizing (shaping) upsetting  pressoreceptor reflexes (added March 2001) USE baroreflexes (added March 2001) USE baroreceptors (added March 2001) USE baroreceptors (added March 2001) USE baroreceptors (pressors USE vasoconstrictor drugs  pressure
preflight operations spacecraft maintenance static tests test firing test stands ∞ tests  preloading USE prestressing  pre-main sequence stars  DEF Stars in which nuclear reactions that take place in its core have not yet occurred. GS celestial bodies . stars protostars pre-main sequence stars T Tauri stars  RT main sequence stars star formation stellar evolution  premature operation RT ∞ operations	image processing  presbyopia RT vision  preselectors USE preamplifiers  presentation RT information  preservatives RT additives	hot isostatic pressing RT cold pressing compacting extruding forging metal working molds presses ∞ pressing pultrusion sizing (shaping) upsetting  pressoreceptor reflexes (added March 2001) USE baroreflexes pressoreceptors (added March 2001) USE baroreceptors pressors USE vasoconstrictor drugs  pressure DEF Force or load per unit area. Used for
preflight operations spacecraft maintenance static tests test firing test stands ∞ tests  preloading USE prestressing  pre-main sequence stars  DEF Stars in which nuclear reactions that take place in its core have not yet occurred. GS celestial bodies stars . protostars . pre-main sequence stars . T Tauri stars  RT main sequence stars star formation stellar evolution  premature operation	image processing  presbyopia RT vision  preselectors USE preamplifiers  presentation RT information  preservatives RT additives	hot isostatic pressing RT cold pressing compacting extruding forging metal working molds presses ∞ pressing pultrusion sizing (shaping) upsetting  pressoreceptor reflexes (added March 2001) USE baroreflexes  (added March 2001) USE baroreceptors  (added March 2001) USE baroreceptors  pressors USE vasoconstrictor drugs  pressure DEF Force or load per unit area. Used for surface pressure.
preflight operations spacecraft maintenance static tests test firing test stands ∞ tests  preloading USE prestressing  pre-main sequence stars DEF Stars in which nuclear reactions that take place in its core have not yet occurred. GS celestial bodies . stars protostars pre-main sequence stars T Tauri stars  RT main sequence stars star formation stellar evolution  premature operation RT ∞ operations preparation	image processing  presbyopia RT vision  preselectors USE preamplifiers  presentation RT information  preservatives RT additives	RT cold pressing compacting extruding forging metal working molds presses  pressing pultrusion sizing (shaping) upsetting  pressoreceptor reflexes (added March 2001) USE baroreflexes (added March 2001) USE baroreceptors (added March 2001) USE baroreceptors pressors USE vasoconstrictor drugs  pressure  DEF Force or load per unit area. Used for surface pressure. UF surface pressure
preflight operations spacecraft maintenance static tests test firing test stands ∞ tests  preloading USE prestressing  pre-main sequence stars  DEF Stars in which nuclear reactions that take place in its core have not yet occurred. GS celestial bodies . stars protostars pre-main sequence stars T Tauri stars  RT main sequence stars star formation stellar evolution  premature operation RT ∞ operations	image processing  presbyopia RT vision  preselectors USE preamplifiers  presentation RT information  preservatives RT additives	RT cold pressing compacting extruding forging metal working molds presses  pressing pultrusion sizing (shaping) upsetting  pressoreceptor reflexes (added March 2001) USE baroreflexes (added March 2001) USE baroreceptors (added March 2001) USE baroreceptors pressors USE vasoconstrictor drugs  pressure  DEF Force or load per unit area. Used for surface pressure. UF surface pressure
preflight operations spacecraft maintenance static tests test firing test stands ∞ tests  preloading USE prestressing  pre-main sequence stars  DEF Stars in which nuclear reactions that take place in its core have not yet occurred. GS celestial bodies . stars protostars pre-main sequence stars  T auri stars  RT main sequence stars star formation stellar evolution  premature operation RT ∞ operations preparation  premixed flames	image processing  presbyopia RT vision  preselectors USE preamplifiers  presentation RT information  preservatives RT additives	hot isostatic pressing RT cold pressing compacting extruding forging metal working molds presses  presses  pressing pultrusion sizing (shaping) upsetting  pressoreceptor reflexes (added March 2001) USE baroreflexes (added March 2001) USE baroreceptors  pressors (added March 2001) USE baroreceptors  pressors USE vasoconstrictor drugs  pressure  DEF Force or load per unit area. Used for surface pressure.  UF surface pressure GS pressure
preflight operations spacecraft maintenance static tests test firing test stands ∞ tests  preloading USE prestressing  pre-main sequence stars DEF Stars in which nuclear reactions that take place in its core have not yet occurred. GS celestial bodies . stars protostars pre-main sequence stars T Tauri stars  RT main sequence stars star formation stellar evolution  premature operation RT ∞ operations preparation  premixed flames GS flames	image processing  presbyopia RT vision  preselectors USE preamplifiers  presentation RT information  preservatives RT additives	RT cold pressing compacting extruding forging metal working molds presses ∞ pressing pultrusion sizing (shaping) upsetting  pressoreceptor reflexes (added March 2001) USE baroreflexes (added March 2001) USE baroreceptors  pressors USE vasoconstrictor drugs  pressure  DEF Force or load per unit area. Used for surface pressure. UF surface pressure GS pressure atmospheric pressure
preflight operations spacecraft maintenance static tests test firing test stands ∞ tests  preloading USE prestressing  pre-main sequence stars DEF Stars in which nuclear reactions that take place in its core have not yet occurred. GS celestial bodies . stars protostars pre-main sequence stars T Tauri stars  RT main sequence stars star formation stellar evolution  premature operation RT ∞ operations preparation  premixed flames GS flames premixed flames GS flames . premixed flames	image processing  presbyopia RT vision  preselectors USE preamplifiers  presentation RT information  preservatives RT additives	RT cold pressing compacting extruding forging metal working molds presses  presses pressing pultrusion sizing (shaping) upsetting  pressoreceptor reflexes (added March 2001) USE baroreflexes (added March 2001) USE baroreceptors (added March 2001) USE baroreceptors  pressors USE vasoconstrictor drugs  pressure DEF Force or load per unit area. Used for surface pressure GS pressure . atmospheric pressure . base pressure . base pressure

	hypotension	pressurizir	ng		pressure
	lower body negative pressure		re inversions		•
	systolic pressure	vacuum ch	nambers	∞ pressu	re drop
	. critical pressure	weight (ma	ass)	SN	(USE OF A MORE SPECIFIC TERM IS
	. densification	<b>.</b> .	•		RECOMMENDEDCONSULT THE TERMS
				DT	LISTED BELOW)
	. differential pressure	pressure breathing		RT	fluid power
	. dynamic pressure		hing of oxygen or a suitable		friction
	. fluid pressure	•	a pressure higher than the		gas flow
	water pressure	surrounding pressu			head flow
	. gas pressure	GS respiration			inlet flow
	. geopressure		breathing		pressure
	. high pressure		y breathing techniques		pressure distribution
	. inlet pressure	liquid brea	thing		pressure gradients
	. internal pressure	pressure			pressure oscillations
	. intracranial pressure	stress (phy	ysiology)		pressure reduction
	. intraocular pressure				two phase flow
	. isostatic pressure	pressure broadeni	ina		
	. low pressure	RT line spectr		pressur	e effects
	high altitude pressure	pressure	a	RT	beta factor
	middle ear pressure	spectrosco	nov.		compressibility effects
	overpressure	specii oscc	рру	~	effects
	partial pressure				jet blast effects
	oxygen tension	pressure cabins			loads (forces)
	hypoxemia	USE pressurize	ed cabins		nonisothermal processes
	. plasma pressure	•			pressure
	. radiation pressure				suction
	electron pressure	pressure chamber			temperature effects
	lumens	GS compartme			temperature inversions
	luminous intensity	. test chan			transition pressure
	illuminance		re chambers		vacuum effects
	luminance	* '	paric chambers		wind effects
	sound pressure		m chambers		
		RT air locks		pressure	a fields
	. stagnation pressure	∞ chambers		USE	pressure distribution
	. static pressure	enclosures	3	OOL	pressure distribution
	hydrostatic pressure	pressure			
	. supercritical pressures	pressurize	d cabins		e gages
	. thrust chamber pressure	wind tunne	el drives	UF	" " " " " " " " " " " " " " " " " " " "
	. transient pressures			GS	measuring instruments
	. transition pressure				pressure gages
	. vacuum	pressure depende			barometers
	high vacuum		low a rate constant changes		manometers
	low vacuum	with pressure.			osmometers
	ultrahigh vacuum	RT burning ra			piezoelectric gages
	. vapor pressure	hydrostation			piezometers
	. wall pressure	reaction ki	netics		vacuum gages
	. wind pressure				ionization gages
RT	baroreceptors	pressure distribut	ion		alphatrons
	blast loads	UF pressure f			Bayard-Alpert ionization gages
	center of pressure	GS distribution			Penning gages
	compressing		11 77		Philips ionization gages
	ear pressure test		e distribution		Knudsen gages
	elastic waves		nic coefficients		Mcleod gages
	environments	aerodynan			Pirani gages
0	∞ force	,	nic stability	RT ∘	bombs
	fuel tank pressurization	center of p			Bourdon tubes
	Gibbs-Helmholtz equations	differential			flowmeters
	head (fluid mechanics)	∞ distributior			hypsometers
	high pressure oxygen	field theory			pressure
	impact	influence of			shock measuring instruments
	isobars (pressure)	internal pro	essure		strain gage accelerometers
	loads (forces)	isobars (pı	ressure)		strain gage balances
		lift			
	Newton pressure law	loading mo	oments		strain gages weight indicators
	osmosis	loads (forc			weight mulcaturs
	pressure breathing	manomete			a avadianta
	pressure broadening	mass distr	ibution		e gradients
	pressure chambers	moment di	istribution	GS	gradients
	pressure distribution		essure law		pressure gradients
	pressure drag	pressure		RT	atmospheric pressure
0	∞ pressure drop	∞ pressure d	Iron		bathythermographs
	pressure effects	shock way			boundary layer thickness
	pressure gages	spanwise I			critical flow
	pressure gradients	static load	3		differential pressure
	pressure heads		design criteria		fluid boundaries
	pressure ice				fluid flow
	pressure measurement		en transformation		friction factor
	pressure modulator radiometers	thrust distr			geopressure
	pressure oscillations	velocity dis			hydrodynamics
	pressure pulses	vertical dis			hydrostatics
	pressure ratio	wall press	ure		inlet pressure
	pressure recorders				isobars (pressure)
	pressure recovery	pressure drag			Knudsen flow
	•		haracteristics		
	pressure reduction	· · · · · · · · · · · · · · · · · ·	haracteristics		liquid flow
	pressure suite	. drag	re drag		liquid-liquid interfaces
	pressure vessel design	pressu	•		liquid-vapor interfaces
	pressure vessel design	supers			multiphase flow
	pressure vessels	wave (			orifice flow
	pressure welding		erence drag		pipe flow
	pressurized cabins	RT aerodynan			potential gradients
	pressurized water reactors	friction dra	ıg		pressure

∞ pressure drop organic luminophores or dyes dispersed in an pressure Rankine-Hugoniot relation oxygen permeable polymeric binder. The lumisteady flow pressure oscillations nescence is induced by the excitation of the dye steam flow oscillations with an appropriate wavelength light. The emitsubcritical flow . pressure oscillations ted intensity or brightness of the paint is inacoustic frequencies versely proportional to the partial pressure of suction supercritical flow combustion stability oxygen because the luminescence is quenched uniform flow flame propagation by oxygen. unsteady flow pressure PSP (paints) GS Venturi tubes ∞ pressure drop coatings Southern Oscillation . paints turbulent flow pressure sensitive paints pressure heads flow measurement head (pressure) fluid flow UF pressure probes flow visualization GS USE pressure sensors nonintrusive measurement . head (fluid mechanics) optical measurement . . pressure heads center of pressure pressure pulses pressure measurement RT GS pulses elevation pressure pulses pressure sensors  $\infty$  hydraulics blast loads pressure probes hydrodynamics flame propagation pressure transducers hydrostatic pressure pressure transducers hydrostatics . pressure sensors shock waves liquid flow Bourdon tubes pressure pressure ratio RT electroacoustic waves DEF The relationship of a force to the depiezoelectric gages pressure ice formation of a system whose deformation varies pressure pressure ridges in some proportion to the force. quartz transducers GS ice GS ratios rakes . sea ice pressure ratio shock wave generators fuel-air ratio . pressure ice transient pressures cold weather lift drag ratio transient response freezing mass ratios ultrasonic wave transducers payload mass ratio ice formation low temperature pressure pressure suits ocean currents propellant mass ratio DEF Garments designed to provide prespressure stress ratio sure upon the body so that the respiratory and thrust-weight ratio tides circulatory functions may continue normally, or wind (meteorology) nearly so, under low pressure conditions, such pressure recorders winter as occur at high altitudes or in space without recording instruments benefit of pressurized cabins. pressure recorders GS clothing pressure measurement pressure . protective clothing tonometry . . pressure suits GS mechanical measurement pressure recovery . . . space suits pressure measurement  $RT \, \infty \, diffusers$ extravehicular mobility units RT barometers explosive decompression . suits Bourdon tubes fluid amplifiers . . pressure suits differential pressure inlet pressure . . . space suits flow measurement pressure . . extravehicular mobility units flowmeters ∞ recovery flight clothing ionization gages helmets Knudsen gages pressure reduction inflatable structures manometers bleed-off life support systems Mcleod gages decompression portable life support systems ∞ measurement deflating pressure noise meters depressurization safety devices Philips ionization gages GS pressure reduction Pirani gages explosive decompression pressure switches pitot tubes RT ∞ bleeding GS control equipment pneumatic probes compressing pressure switches pressure gas expansion switches pressure sensitive paints inflating pressure switches vacuum pressure electric switches vacuum gages ∞ pressure drop velocity ∞ reduction pressure transducers velocity measurement USE pressure sensors Venturi tubes pressure regulators weight indicators GS control equipment pressure vessel design wind tunnel calibration regulators structural design wind tunnel tests . . automatic control valves . pressure vessel design . . pressure regulators RT ∞ design pressure modulator radiometers valves perforated shells DEF A cell containing a known quantity of a . automatic control valves pressure gas is placed in the single optical path of the . pressure regulators shells (structural forms) radiometer and subjected to cyclical pressure controllers changes which alter the absorption lines in the flow regulators pressure vessels infrared spectrum of the gas. A narrow band fuel tank pressurization GS pressure vessels signal results from the different voltages at the oxygen regulators . preburners detector at high and low cell pressures. A widepressurizing accumulators band signal is generated by physically chopping relief valves autoclaves a percentage of the input beam with a rotating bells chopper blade. pressure ridges boilers GS measuring instruments USE pressure ice bulbs . radiation measuring instruments burst tests . . actinometers pressure sensitive paints ∞ containers . . . radiometers (added March 2001) domes (structural forms) DEF Luminescent paints used for the nonfuel tank pressurization pressure modulator

intrusive optical measurement of static and tran-

sient pressure fields. These paints are typically

fuel tanks

hemisphere cylinder bodies

radiometers

RT infrared radiometers

	isotensoid structures		stresses		nickel zinc batteries
	pressure		structural strain		metal air batteries
	propellant tanks		tensegrity structures		zinc-oxygen batteries
	reactor materials				sodium sulfur batteries
	shallow shell equations	pretests			thermal batteries
	spherical tanks	USE	tests		electrochemical cells
	storage tanks	pretrea	tmont		. electric batteries
	tanks (containers)	GS	preparation		primary batteries
٥	vessels	ao	. pretreatment		alkaline batteries
	wall pressure wind tunnel walls		prestressing		dry cells
	willia tullilei walls	RT	prevention		magnesium cells nickel zinc batteries
nressur	e waves		priming		metal air batteries
USE	elastic waves				zinc-oxygen batteries
		pretwist			sodium sulfur batteries
pressui	re welding	USE	prestressing		thermal batteries
GS	welding		twisting	RT	charge efficiency
	. pressure welding	provan	orization		electrolytes
	cold welding	DEF	The phase transformations of liquids to		nonaqueous electrolytes
	. diffusion welding		rior to some physical or chemical reac-		storage batteries
	explosive welding	tion.	nor to come physical or orientical read		wet cells
	friction welding	GS	phase transformations		
	friction stir welding		. vaporizing	primary	cosmic rays
RT	ultrasonic welding arc welding		prevaporization	UF	heavy cosmic ray primaries
п	electric welding	RT	flashing (vaporizing)	GS	extraterrestrial radiation
	flash welding		gases		. primary cosmic rays
	fusion welding		vapor phases		solar cosmic rays
	gas welding		vapors		ionizing radiation
	pressure		volatility		. cosmic rays
	spot welds				primary cosmic rays
	The state of the s	prevent			solar cosmic rays
pressui	rized cabins	GS	prevention		particles
UF	pressure cabins		. accident prevention . corrosion prevention		. corpuscular radiation
GS	compartments		•		primary cosmic rays
	. pressurized cabins		. fire prevention . ice prevention	рт	solar cosmic rays
RT	aircraft compartments		. preventive maintenance	RT	cosmic ray albedo heavy nuclei
	cabin atmospheres	RT	blocking		secondary cosmic rays
٥	o cabins	1111	etiology		Secondary cosmic rays
	cockpits		inhibition		
	emergency life sustaining systems		pollution	primate	
	environmental control		preempting	GS	animals
	escape capsules		pretreatment		. vertebrates
	explosive decompression life support systems		protection		mammals
	oxygen supply equipment	0	reduction		primates
	pressure	0	resistance		apes
	pressure chambers		retarding		chimpanzees baboons
	spacecraft cabin atmospheres		sabotage		human beings
	spacecraft cabins		safety		monkeys
	opaccoran casmo		stopping		monkoyo
pressu	rized water reactors	provent	ive maintenance	. primore	
GS	nuclear reactors		ed June 2000)	∞ primers SN	(USE OF A MORE SPECIFIC TERM IS
	. liquid cooled reactors	GS	maintenance	OIV	RECOMMENDEDCONSULT THE TERMS
	water cooled reactors	ao	. preventive maintenance		LISTED BELOW)
	pressurized water reactors		prevention	RT	engine primers
	spectral shift control reactor		preventive maintenance		primers (coatings)
RT	nuclear power reactors	RT	aircraft maintenance		primers (explosives)
	pressure		failure analysis		
pressui	rizina		inspection		(coatings)
GS	pressurizing		nondestructive tests	DEF	Coatings designed to enhance adhe
ao	. fuel tank pressurization		reliability analysis	sion.	
RT	accumulators		ll	GS	coatings
	densification	prewhir			. protective coatings
	expulsion	GS	preparation . prewhirling	RT	primers (coatings) dopes
	expulsion bladders		. prewilling	nı.	fillers
	gas generators	prewhit	enina		finishes
	gas injection	GS	preparation		lacquers
	inflating		prewhitening		metal coatings
	pressure	RT	color		paints
	pressure regulators	0	treatment	~	primers
	stimulation				sprayed coatings
			n meteorite		substrates
Preston		GS	celestial bodies		varnishes
USE	pitot tubes		. meteorites		
	speed indicators		stony meteorites		(avalacives)
prootroi	ning		chondrites		(explosives)
prestrai	•		Pribram meteorite	GS	explosive devices
USE	prestressing	RT	bolides		. initiators (explosives)
prestre	esina		meteor trails		primers (explosives) igniters
UF	preloading	nrima-	hatteries		. initiators (explosives)
Oi	prestraining	primary SN	(NON DECHARGEARI E RATTERIES)		primers (explosives)
	pretwisting	GS	(NON-RECHARGEABLE BATTERIES) electric generators	RT	caps (explosives)
GS	preparation	40	. direct power generators	111	detonation
40	. pretreatment		primary batteries		detonators
	prestressing		alkaline batteries		exploding wires
RT	elastic deformation		dry cells		percussion
	isotensoid structures		magnesium cells	~	primers
				-	the state of the s

squibs	transistor circuits	each other, from which light is reflected or
priming	printed resistors	through which light is refracted. When light is refracted by a prism whose refractive index
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	GS attenuators	exceeds that of the surrounding medium, it is
LISTED BELOW)	. resistors	deviated or bent toward the thicker part of the
RT coating	<b>printed resistors</b> RT miniaturization	prism. GS optical equipment
coatings initiation	TTT TIMILEATIZATION	. prisms
preparation	printers	RT photoelasticity
pretreatment	GS printers . printers (data processing)	prismatic bars
starting	. teleprinters	refraction
primitive Earth atmosphere	RT cathode ray tubes	privacy
GS Earth atmosphere	data processing equipment plotters	DEF Freedom from observation and/or in-
. <b>primitive Earth atmosphere</b> RT ∞ atmospheres	printing	trusion. Applies to such things as communica- tions, personal records, photographs.
atmospheric composition	projectors	RT computer information security
atmospheric electricity	typewriters	information
atmospheric models Earth planetary structure	printers (data processing)	information dissemination integrity
free atmosphere	GS computer components	papers
paleoclimatology	<ul><li>. peripheral equipment (computers)</li><li>. printers (data processing)</li></ul>	recording
planetary atmospheres	data processing equipment	records security
primitive equations	peripheral equipment (computers)	•
DEF Eulerian equations of fluid motion in	printers (data processing) printers	private aircraft
which the primary dependent variables are the fluid's velocity components. The equations gov-	printers (data processing)	USE general aviation aircraft
ern a wide variety of fluid motions and form the	RT automatic typewriters	probability
basis of most hydrodynamical analysis.	computers	USE probability theory
RT atmospheric boundary layer climatology	∞ data display devices	probability density functions
∞ equations	printouts	GS functions (mathematics)
Euler equations of motion	readout	. probability density functions
fluid dynamics ∞ mathematics	teleprinters	normal density functions Pearson distributions
~ manematics	printing	Rayleigh distribution
primordial galaxies	GS <b>printing</b> . lithography	Weibull density functions statistical analysis
(added May 2002) USE protogalaxies	photolithography	. probability density functions
	RT binding	normal density functions
primordial stars (added July 1999)	contrast document markup languages	Pearson distributions Rayleigh distribution
USE Population III stars	electronic publishing	Weibull density functions
Prince Edward Island	electronography	RT binomial theorem
Prince Edward Island GS landforms	engraving inks	censored data (mathematics) continuity (mathematics)
. islands	legibility	discrete functions
Prince Edward Island	photoengraving	events
nations . Canada	photographic processing photomechanical effect	expectancy hypothesis exponential functions
. Prince Edward Island	plotting	failure analysis
Prince William Sound (AK)	printers	gas density
GS sounds (topographic features)	reading reproduction (copying)	Mills ratio quartiles
. Prince William Sound (AK)	stencil processes	·
RT Alaska	printouts	probability distribution functions GS functions (mathematics)
Princeton sailwings	RT format	. distribution functions
USE sailwings	lists	. probability distribution functions
principal components analysis	output printers (data processing)	statistical analysis . probability distribution functions
RT image processing	readout	statistical distributions
imaging techniques Karhunen-Loeve expansion	tables (data)	probability distribution functions
pattern recognition	priorities	RT discrete functions goodness of fit
spectral mixture analysis	RT engineering management	· ·
o principles	project planning	probability theory
SN (USE OF A MORE SPECIFIC TERM IS	research management resource allocation	UF probability statistical probability
RECOMMENDEDCONSULT THE TERMS LISTED BELOW)	sequencing	RT ∞ applications of mathematics
RT duality principle	Drivede medule	belief networks
∞ logic ∞ mathematics	Priroda module (added August 1995)	binomial theorem Borel sets
	GS modules	combinatorial analysis
printed circuits GS circuits	. space station modules <b>Priroda module</b>	confidence ∞ conjunction
. printed circuits	RT Mir space station	consecutive events
RT breadboard models	radar imagery	continuums
circuit boards electronic packaging	remote sensing space station structures	correlation decision theory
hybrid circuits	opaco cianon chacianos	distribution functions
integrated circuits	prismatic bars	Duffing differential equation
large scale integration medium scale integration	GS bars . prismatic bars	Einstein equations ergodic process
miniature electronic equipment	RT prisms	error analysis
miniaturization		events
photomasks subminiaturization	prisms  DEF Transparent bodies with at least two	extremum values forecasting
thick films	polished plane faces inclined with respect to	fuzzy systems

game theory Householder transformations product development goodness of fit ill-conditioned problems quality control indication (mathematics) sol-gel processes infinity ill-posed problems (mathematics) space industrialization information theory iteration Úmklapp process iteration learning theory Kolmogorov-Smirnov test management ∞ processing (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) likelihood ratio maze learning SN martingales ∞ methodology mathematics Newton methods associative processing (computers) Maxwell-Boltzmann density function simplex method batch processing Minkowski space ∞ solution data processing Monte Carlo method food processing operations research ∞ problems image processing (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) Bolza problems outliers (statistics) manufacturing parameter identification materials recovery population theory message processing quality control nuclear fuel reprocessing boundary value problems random errors Cauchy problem
Chapman-Ferraro problem optical data processing random noise reliability photographic processing Dirichlet problem production engineering sampling statistical analysis four body problem recycling isoperimetric problem many body problem refining statistical distributions retort processing statistics Mayer problem Neumann problem settling Stieltjes integral stochastic processes signal processing ultrasonic processing operational problems subgroups Poincare problem wet spinning system identification prelaunch problems ∞ theories processors (computers) three body problem transition probabilities USE central processing units tracking problem traveling salesman problem traveling salesman problem uncertain systems procurement two body problem uniqueness theorem GS procurement . government procurement procedures probe method (forecasting) leasing Detailed instructions for the perfor-DEF management methods contracts mance of a process or function. . probe method (forecasting) equipment specifications UF methods predictions government/industry relations practices . forecasting receiving GS procedures . . technological forecasting services boundary integral method . . probe method (forecasting) specifications crew procedures (inflight) Delphi method (forecasting) subcontracts crew procedures (preflight) estimating finite element method ∞ methodology operations research procurement management finite volume method GS management . Godunov method pattern method (forecasting) . procurement management Glimm method planning allocations optical correction procedure profile method (forecasting) budgeting . 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 SN 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 continuous manufacturing and other industrial pro-Pioneer 8 space probe procurement policy Pioneer 9 space probe policies cesses are monitored and maintained to create Pioneer 10 space probe procurement policy products of planned, uniform dimension and Pioneer 11 space probe decisions quality. Pioneer Venus 1 spacecraft intellectual property component reliability Pioneer Venus 2 entry probes management Pioneer Venus 2 night probe ∞ control procedures group technology (manufacturing) Pioneer Venus 2 spacecraft regulations product development quality control Pioneer Venus 2 transporter bus rules Pioneer Venus spacecraft sampling radio probing product development remote sensors sondes specifications engineering development product development 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 heat alternating direction implicit methods breadboard models process heat . asymptotic methods commerce heat generation RT iterative solution commercial off-the-shelf products commercialization . theorem proving ∞ processes approximation computer design (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) autoregressive processes backward differencing concurrent engineering computational grids consumers Crank-Nicholson method ∞ design decision making isentropic processes ∞ development decision support systems jet membrane process engine design Kraft process (woodpulp) functional design specifications

nonisentropicity

nonisothermal processes

Ornstein-Uhlenbeck process

Dining Philosophers Problem

existence theorems

group dynamics

homotropy

helicopter design

inventions

lens design

management wind profiles total quality management market research profilometers marketing production methods patent applications USE production engineering measuring instruments . profilometers patent policy RT ∞ profiles pilot plants production planning process control (industry) roughness planning ∞ processes shapes . management planning surface properties production planning surface roughness production engineering production engineering quality production planning quality control rapid prototyping progeny RT ∞ production children RT schedules reactor design reproduction (biology) reliability satellite design productivity prognosis aircraft production costs RT diagnosis solvent refined coal allowances space industrialization efficiency **Prognoz satellites** spacecraft design matrix management GS artificial satellites standardization morale . Soviet satellites structural design production engineering . . Prognoz satellites reliability software reuse program evaluation review technique ∞ production workstations USF PERT (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) program management products USE project management aircraft production GS products food production (in space) . fission products program reliability (computers) fuel production gross national product USE software reliability output . petroleum products product development . . asphalt program trend line analysis production engineering . . diesel fuels RT critical path method production planning . . gasoline management planning reserves PERT tools . reaction products programs . . combustion products project management . . . soot production costs . . reaction intermediates program verification (computers) The process of fabrication, from raw . commercial off-the-shelf products RT checkout materials through the finished products, includdata products computer programming ing packaging and other prorated costs. by-products file maintenance (computers) GS costs commodities proving production costs manufacturing software development tools . aircraft production costs output software reliability cost analysis procurement management systems analysis cost estimates production engineering ∞ tests design to cost quality control life cycle costs resource allocation programmable logic devices operating costs services (added September 1992) space industrialization GS reconfigurable hardware . programmable logic devices production engineering proficiency . field-programmable gate arrays production methods architecture (computers) USE abilities production engineering computer systems design group technology (manufacturing) controllers profile method (forecasting) production planning logic circuits management methods aircraft production logic design profile method (forecasting) aircraft production costs predictions ∞ capacity programmed cell death . forecasting ∞ engineering human factors engineering laser applications (added October 2000) . . technological forecasting USE apoptosis . profile method (forecasting) Delphi method (forecasting) management numerical control programmed instruction estimating GS education ∞ methodology . programmed instruction ∞ operations operations research . computer assisted instruction planning ∞ processing RT compilers probe method (forecasting) computer programming product development technology assessment computer programs  $\infty$  production productivity ∞ profiles programmers products (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) personnel scheduling programmers standardization coders airfoil profiles computer programming angles (geometry) file maintenance (computers) production management curvature management delineation ∞ programming production management distribution (property) (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) computer programming aircraft production costs geometry employee relations gradients estimates line shape dynamic programming fabrication planforms group technology (manufacturing) file maintenance (computers) profilometers industrial management search profiles linear programming manufacturing shapes mathematical programming quality control shock wave profiles microprogramming reliability multiprogramming slopes streamlining nonlinear programming resources

topography

programming (scheduling)

safety management

quadratic programming ... Helios Project . . Next Generation Space Telescope structured programming Jupiter project project Magellan project (NASA) . . Rover project programming (scheduling) Mariner program . . SAIL project GS scheduling Mariner Venus-Mercury 1973 . . Saturn project programming (scheduling) . . . Mariner-Mercury 1973 . . Scanner project . thrust programming Mars 69 project Scout project critical path method Mars 71 project . . Seafarer project ∞ programming Mercury project SQUID project ∞ steps . . Submarine Integrated Control National Launch Vehicle Program **NEW MOONS project** programming environments project (added January 1993) UF SEE (software engineering . . Success project Nimbus project . . Surface Meteorology and Solar **OPEN Project** Energy project
. . Surface Radiation Budget project environments) Pioneer project software engineering environments Project SETI Surveyor project RT computer programming Ranger project . . Synchronous Communications computer programs Agena B Ranger Program Satellite Proj 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

Vanguard project programming languages SAIL project GS languages Saturn project . . Voyager project . . West Ford project . radar target scatter site program programming languages Scout project AI GOI Skylab program APL (programming language) Starprobe mission Assembly language . space programs Surveyor project Synchronous Communications Satellite Proj Argentine space program Australian space program Brazilian space program autocoders COMPASS (programming language) Tektite project TIROS project Canadian space program MAP (programming language) BASIC (programming language) Alouette project Cobol Titan project Chinese space program COGO (programming language) Vanguard project European space programs context free languages Viking Mars program Austrian space program Forth (programming language) Voyager project Belgian space program FORTRAN Mission to Planet Earth Czechoslovakian space program HAL/S (language) National Aerospace Plane Program Danish space program high level languages quiet engine program Finnish space program . Ada (programming language) .. supersonic cruise aircraft research French space program C (programming language) . . TACT program German space program C++ (programming language) . Terminal Configured Vehicle Greek space program Java (programming language) Program Hungarian space program LISP (programming language) . . Tilt Rotor Research Aircraft Icelandic space program machine oriented languages Program Italian space program natural language (computers) . PANT program Luxembourg space program Pascal (programming language) Netherlands space program . projects . . Advent Project Norwegian space program . . PL/1 . . Prolog (programming language) computer programming AgRISTARS project Portuguese space program Alouette project Spanish space program Apollo project
Apollo Soyuz test project Swedish space program formalism Swiss space program predicate logic Argus project
ASSET project structured programming Turkish space program ... Turkish space program
... UK space program
... geographic applications program
... Indian space program
... Indonesian space program
... Israeli space program
... Japanese space program
... Mexican space program
... NASA space programs
Apollo applications program ATLIT project
BIOS project
Bumblebee project programs GS programs Army-Navy instrumentation program Centaur project
 Defender project
 Earth & Ocean Physics Comsat program defense program
 Downrange Antimissile
 Measurement Program
 Global Atmospheric Research Applications Program Apollo applications program Echo project . . . Apollo project . . . Bioastronautical Orbital Space Program
GARP Atlantic Tropical Experiment . . eclipse project . . Experimental Reflector Orbital Shot . International Geosphere-Biosphere Proj System . . FIRE (climatology) Centaur project program . . . Earth & Ocean Physics
Applications Program . lunar programs Galileo project Apollo project Gemini project ... Earth Resources Program Surveyor project Geosari project . NASA programs Harvard Radio Meteor Project .... Earth Resources Survey . . ACEE program Helios Project Program Assess program ISCCP Project SEASAT program ATLIT project Jupiter project Echo project DAST program Magellan project (NASA) Galileo project . . NASA space programs Mars 69 project Gemini project Apollo applications program Mars 71 project Helios Project Apollo project . . Mercury project Jupiter project ... Bioastronautical Orbital Space NEW MOONS project Magellan project (NASA) Mariner program System Nike project Nimbus project
OPEN Project . . . Centaur project Mariner Venus-Mercury 1973 ... Earth & Ocean Physics Mariner-Mercury 1973 Applications Program Pioneer project Mars 69 project . . Earth Resources Program Project SETI Mars 71 project Mercury project
National Launch Vehicle Program . . . . Earth Resources Survey . . Radio Attenuation Measurement Program project . . . . SEASAT program
. . . Echo project
. . . Galileo project . . rand project NEW MOONS project . . Ranger project . . . Agena B Ranger Program Nimbus project OPEN Project

. . CERES (experiment)

. . . Gemini project

... Pioneer project

Project SETI	weapon system management	drawings
Ranger project	and the state of t	forecasting
Agena B Ranger Program	project planning	gnomonic projection
Constellation program	GS planning	graphic arts
Mars Surveyor 98 Program	. management planning	illuminating
New Horizons mission	project planning	magnification
Rover project	RT allocations	predictions
SAIL project	budgeting	projectors
Saturn project	decisions	trends
Scout project	estimates	
Skylab program	forecasting	projective geometry
Starprobe mission	goals	GS geometry
Surveyor project	management	. Euclidean geometry
Synchronous Communications	matrix management	projective geometry
Satellite Proj	∞ missions	Mercator projection
Tektite project	NASA Interactive Planning System	RT analytic geometry
TIROS project	operations research priorities	descriptive geometry
Titan project	Programme and the second secon	gnomonic projection
Vanguard project	projects	reciprocal theorems
Viking Mars program	risk management	projectors
Voyager project	Project SETI	SN (LIGHT AND IMAGE)
New Zealand space program	DEF A program to search for extraterrestrial	RT beacons
Pakistan space program	intelligence by means of radio communication.	illuminating
Russian Space Program	Used for Search for Extraterrestrial Intelligence	luminaires
Saudi Arabian space program	and SETI.	motion pictures
U.S.S.R. space program	UF Search for Extraterrestrial Intelligence	photogrammetry
Ukrainian space program	SETI	photographic equipment
. Starsite program	GS programs	photography
. TRAP program	. NASA programs	printers
. university program	NASA space programs	∞ projection
RT bureaus (organizations)	Project SETI	searchlights
Committee on Space Research	. projects	g
computer program integrity computer programs	Project SETI	projects
Earth Resources Information System	. space programs	. GS programs
•	NASA space programs	projects
investigation	Project SETI	Advent Project
mission planning ∞ missions	RT extraterrestrial intelligence	AgRISTARS project
∞ operations	radio communication	Alouette project
∞ operations program trend line analysis	radio signals	Apollo project
research and development	· · · · · · · · · · · · · · · · · · ·	. Apollo Soyuz test project
∞ research projects	projectile cratering	Argus project
SEASAT 1	UF hypervelocity cratering	ASSET project
SEASAT T	GS cratering	ATLIT project
SEASAT-B satellite	projectile cratering	BIOS project
Solar Maximum Mission	RT Deep Impact Mission	Bumblebee project
Synchronous Earth Observatory	ejecta	Centaur project
satellite	hypervelocity impact	. Defender project
	hypervelocity projectiles	Earth & Ocean Physics
user manuals (computer programs)	meteorite craters	Applications Program
	meteoritic damage	Echo project
progress	meteoroid hazards	eclipse project
RT economics	Tempel 1 comet	. Experimental Reflector Orbital Shot
management	•	Proj
planning	projectile penetration	FIRE (climatology)
∞ properties	USE terminal ballistics	Galileo project
		Gemini project
progressions	projectiles	Geosari project
GS analysis (mathematics)	DEF Objects, especially missiles, fired,	. Harvard Radio Meteor Project
. calculus	thrown, launched, or otherwise projected in any	. Helios Project
series (mathematics)	manner, such as bullets, guided rocket missiles,	. ISCCP Project
progressions	sounding rockets, or pilotless airplanes. Origi-	Jupiter project
. real variables	nally, objects, such as bullets or artillery shells,	. Magellan project (NASA)
series (mathematics)	projected by applied external forces.	Mars 69 project
progressions	GS projectiles	. Mars 71 project
	. hypervelocity projectiles	Mercury project
prohibition	. precision guided projectiles	NEW MOONS project
RT legal liability	. Sabot projectiles	Nike project
penalties	RT ammunition	Nimbus project
policies	ballistics	OPEN Project
regulations	bombs (ordnance)	Pioneer project
	cartridges	Project SETI
project management	finned bodies	Radio Attenuation Measurement
UF program management	gunfire	project
GS management	guns (ordnance)	rand project
. project management	incendiary ammunition	Ranger project
RT commerce	nuclear weapons	Agena B Ranger Program
contract management	pyrotechnics shaped charges	CERES (experiment)
critical path method		. Next Generation Space Telescope
GERT	shrapnel	project
interfaces	terminal ballistics	Rover project
management planning	terradynamics warheads	SAIL project
management systems	wameads weapons	Saturn project
mission planning		Scanner project
multidisciplinary research	подрано	
	·	Scout project
PERT	∞ projection	Scout project Seafarer project
program trend line analysis		Scout project Seafarer project SQUID project
program trend line analysis projects		Scout project     Seafarer project     SQUID project     Submarine Integrated Control
program trend line analysis		Scout project Seafarer project SQUID project

	Surface Meteorology and Solar	promethium isotopes	waveguides
	Energy project Surface Radiation Budget project	promethium 146	propagation velocity
	Surveyor project	USE promethium isotopes	GS rates (per time)
	Synchronous Communications	oce promounam toolops	. propagation velocity
	Satellite Proj	promethium isotopes	velocity
	Telstar project	UF promethium 146	. propagation velocity
	Themis project	GS chemical elements	RT electromagnetic radiation
	TIROS project	. nuclides	group velocity
	. Titan project	isotopes	phase velocity
	Vanguard project Voyager project	<b>promethium isotopes</b> . rare earth elements	propagation modes
	West Ford project	promethium	wave propagation
RT	bureaus (organizations)	promethium isotopes	propagators
	contracts	metals	USE propagation
	estimating	. rare earth elements	
	missions	promethium	propane
~	operations	promethium isotopes	GS organic compounds
	project management		. hydrocarbons
~	project planning research projects	prominences GS prominences	aliphatic hydrocarbons alkanes
~	tasks	. solar prominences	propane
	teams	RT solar activity	RT cyclopropane
		···· •••••••••••••••••••••••••••••••••	hydrocarbon fuels
prokary	otes	promotion	nitropropane
GS	cells (biology)	RT display devices	
	prokaryotes	increasing	propargyl groups
RT	bacteria	public relations	DEF Crosslinking agents for certain aro-
	biological evolution	upgrading	matic polyamides used as matrix resins in fiber
	cytology	prone position	composites. GS organic compounds
	eukaryotes	RT rest	. propargyl groups
	molecular biology	sitting position	RT ethers
prolato	spheroids	supine position	getters
DEF	Ellipsoids of revolutions, the longer	·	phenyls
	which is the axis of revolution.	Prony series	
GS	geometry	GS analysis (mathematics)	∞ propellant actuated devices
	. Euclidean geometry	. calculus	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS
	analytic geometry	series (mathematics) <b>Prony series</b>	LISTED BELOW)
	spheroids	. real variables	RT ejection seats
ОТ	prolate spheroids	series (mathematics)	explosive devices
RT	oblate spheroids	Prony series	propellant actuated instruments rocket engines
prolater	220		rooket engines
RT	shapes	proofs	propellant actuated instruments
111		USE <b>proving</b>	RT actuators
	programming language)		controllers
	(programming language) languages	. ∞ propagation	controllers ∞ instruments
Prolog		∞ <b>propagation</b> SN (USE OF A MORE SPECIFIC TERM IS	controllers ∞ instruments measuring instruments
Prolog GS	languages . programming languages . Prolog (programming language)	<ul> <li>         ∞ propagation         SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)     </li> </ul>	controllers ∞ instruments
Prolog	languages . programming languages . Prolog (programming language) artificial intelligence	<ul> <li>         ∞ propagation         SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)     </li> <li>DEF The spreading abroad or sending for-</li> </ul>	controllers  ∞ instruments  measuring instruments  ∞ propellant actuated devices
Prolog GS	languages . programming languages . Prolog (programming language) artificial intelligence computer programming	<ul> <li>         propagation         SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)         DEF The spreading abroad or sending forward, as of radiant energy. Used for propaga-</li> </ul>	controllers  ∞ instruments  measuring instruments  ∞ propellant actuated devices  propellant additives
Prolog GS	languages . programming languages . Prolog (programming language) artificial intelligence		controllers  ∞ instruments  measuring instruments  ∞ propellant actuated devices
Prolog (GS)	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems	<ul> <li>         propagation         SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)         DEF The spreading abroad or sending forward, as of radiant energy. Used for propaga-</li> </ul>	controllers  ∞ instruments  measuring instruments  ∞ propellant actuated devices  propellant additives  GS additives
Prolog GS RT	languages programming languages Prolog (programming language) artificial intelligence computer programming expert systems ation	propagation  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators	controllers  ∞ instruments  measuring instruments  ∞ propellant actuated devices  propellant additives  GS additives  propellant additives  propellant additives
Prolog (GS)	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems ation extensions	□ propagation     SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)     □ DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.     □ UF propagators     RT acoustic propagation attenuation crack propagation	controllers  ∞ instruments  measuring instruments  ∞ propellant actuated devices  propellant additives  GS additives  propellant additives  propellant binders  propellant additives  anticing additives  RT anticing additives
Prolog GS RT Prolong GS	languages programming languages Prolog (programming language) artificial intelligence computer programming expert systems ation	propagation  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators  RT acoustic propagation attenuation crack propagation diffraction propagation	controllers  ∞ instruments measuring instruments ∞ propellant actuated devices  propellant additives GS additives . propellant additives propellant binders solid rocket binders RT antiicing additives antioxidants
Prolog GS RT	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation	propagation  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators  RT acoustic propagation attenuation crack propagation diffraction propagation diffusion	controllers  ∞ instruments measuring instruments ∞ propellant actuated devices  propellant additives GS additives . propellant additives . propellant binders solid rocket binders Antiicing additives antiioxidants catalysts
Prolog GS RT Prolong GS	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time	propagation  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators  RT acoustic propagation attenuation crack propagation diffraction propagation diffraction propagation electromagnetic radiation	controllers ∞ instruments measuring instruments ∞ propellant actuated devices  propellant additives GS additives . propellant additives . propellant binders solid rocket binders antiicing additives antioxidants catalysts composite propellants
Prolog GS  RT  prolong GS  RT	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time	□    □    □    □    □    □    □	controllers  ∞ instruments  measuring instruments  ∞ propellant actuated devices  propellant additives  GS additives  . propellant additives  . propellant binders  solid rocket binders  antiicing additives  antiicxidants catalysts composite propellants corrosion prevention
Prolog GS RT prolong GS RT	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time  nazine drugs . antihistaminics	propagation  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators RT acoustic propagation attenuation crack propagation diffraction propagation diffusion electromagnetic radiation flame propagation propagation propagation (extension)	controllers ∞ instruments measuring instruments ∞ propellant actuated devices  propellant additives GS additives . propellant additives . propellant binders solid rocket binders antiicing additives antioxidants catalysts composite propellants
Prolog GS RT prolong GS RT	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time  nazine drugs . antihistaminics . promethazine	propagation  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators  RT acoustic propagation attenuation crack propagation diffraction propagation diffusion electromagnetic radiation flame propagation propagation (extension) self propagation	controllers  ∞ instruments measuring instruments ∞ propellant actuated devices  propellant additives GS additives . propellant additives . propellant binders solid rocket binders antiicing additives antioxidants catalysts composite propellants corrosion prevention gelled propellants
Prolog GS RT prolong GS RT	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time  nazine drugs . antihistaminics . promethazine organic compounds	propagation  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators RT acoustic propagation attenuation crack propagation diffraction propagation diffusion electromagnetic radiation flame propagation propagation propagation (extension)	controllers  ∞ instruments measuring instruments ∞ propellant actuated devices  propellant additives GS additives . propellant additives propellant binders solid rocket binders antiicing additives antiioxidants catalysts composite propellants corrosion prevention gelled propellants inhibitors
Prolog GS RT prolong GS RT	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time  nazine drugs . antihistaminics . promethazine organic compounds . amines	propagation  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators  RT acoustic propagation attenuation crack propagation diffraction propagation diffusion electromagnetic radiation flame propagation propagation propagation propagation stress propagation stress propagation	controllers  ∞ instruments measuring instruments ∞ propellant actuated devices  propellant additives GS additives . propellant additives . propellant binders solid rocket binders antiicing additives antioxidants catalysts composite propellants corrosion prevention gelled propellants inhibitors plasticizers storable propellants
Prolog GS RT prolong GS RT	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time  nazine drugs . antihistaminics . promethazine organic compounds . amines . promethazine	□    □    □    □    □    □    □	controllers  ∞ instruments measuring instruments ∞ propellant actuated devices  propellant additives GS additives . propellant additives . propellant binders solid rocket binders antiicing additives antioxidants catalysts composite propellants corrosion prevention gelled propellants inhibitors plasticizers storable propellants  propellant binders
Prolog GS RT prolong GS RT	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time  nazine drugs . antihistaminics . promethazine organic compounds . amines . promethazine . cyclic compounds	propagation  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators  RT acoustic propagation attenuation crack propagation diffraction propagation diffusion electromagnetic radiation flame propagation propagation (extension) self propagation stress propagation transequatorial propagation transmission wave propagation	controllers  ∞ instruments measuring instruments ∞ propellant actuated devices  propellant additives GS additives . propellant additives . propellant binders solid rocket binders antiicing additives antiioxidants catalysts composite propellants corrosion prevention gelled propellants inhibitors plasticizers storable propellants  propellant binders GS additives
Prolog GS RT prolong GS RT	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time  nazine drugs . antihistaminics . promethazine organic compounds . amines . promethazine . cyclic compounds . heterocyclic compounds	propagation  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators  RT acoustic propagation attenuation crack propagation diffraction propagation diffusion electromagnetic radiation flame propagation propagation (extension) self propagation stress propagation transequatorial propagation transequatorial propagation wave propagation  propagation (extension)	controllers ∞ instruments measuring instruments ∞ propellant additives GS additives . propellant additives . propellant binders solid rocket binders antiicing additives antioxidants catalysts composite propellants inhibitors plasticizers storable propellants  propellant binders  GS additives . propellant additives antioxidants catalysts composite propellants corrosion prevention gelled propellants inhibitors plasticizers storable propellants
Prolog GS  RT  prolong GS  RT  prometi	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time  nazine drugs . antihistaminics . promethazine organic compounds . amines . promethazine . cyclic compounds	propagation  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators RT acoustic propagation attenuation crack propagation diffraction propagation diffusion electromagnetic radiation flame propagation propagation (extension) self propagation stress propagation transequatorial propagation transequatorial propagation wave propagation  propagation (extension)  GS propagation (extension)	controllers  ∞ instruments measuring instruments ∞ propellant additives GS additives . propellant additives . propellant binders solid rocket binders antiicing additives antiicxidants catalysts composite propellants corrosion prevention gelled propellants inhibitors plasticizers storable propellants  propellant binders  GS additives propellant additives propellant binders . propellant additives . propellant binders
Prolog GS  RT  prolong GS  RT  prometl GS	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time  nazine drugs . antihistaminics . promethazine organic compounds . amines . promethazine . cyclic compounds . heterocyclic compounds promethazine	propagation  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators RT acoustic propagation attenuation crack propagation diffraction propagation diffusion electromagnetic radiation flame propagation propagation extress propagation stress propagation stress propagation transequatorial propagation wave propagation  propagation (extension)  GS propagation (extension)  GS propagation (extension)  crack propagation	controllers  ∞ instruments measuring instruments ∞ propellant actuated devices  propellant additives GS additives . propellant additives . propellant binders solid rocket binders  RT antiicing additives antioxidants catalysts composite propellants corrosion prevention gelled propellants inhibitors plasticizers storable propellants  propellant binders GS additives . propellant additives . propellant binders solid rocket binders
Prolog GS  RT  prolong GS  RT  prometi GS	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time  nazine drugs . antihistaminics . promethazine organic compounds . amines . promethazine . cyclic compounds . heterocyclic compounds promethazine organic compounds heterocyclic compounds promethazine	propagation  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators  RT acoustic propagation attenuation crack propagation diffraction propagation diffusion electromagnetic radiation flame propagation propagation (extension) self propagation stress propagation transequatorial propagation transequatorial propagation wave propagation  propagation (extension)  GS propagation (extension)  crack propagation  propagation (extension)  GS propagation (extension)  crack propagation  flame propagation	controllers  ∞ instruments measuring instruments ∞ propellant actuated devices  propellant additives GS additives . propellant additives . propellant binders solid rocket binders antiicing additives antioxidants catalysts composite propellants corrosion prevention gelled propellants inhibitors plasticizers storable propellants  propellant binders GS additives . propellant additives . propellant binders solid rocket binders binders (materials)
Prolong GS RT  Prolong GS RT  Prometi GS	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time  nazine drugs . antihistaminics . promethazine organic compounds . amines . promethazine . cyclic compounds . heterocyclic compounds promethazine	propagation  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators RT acoustic propagation attenuation crack propagation diffraction propagation diffusion electromagnetic radiation flame propagation propagation extress propagation stress propagation stress propagation transequatorial propagation wave propagation  propagation (extension)  GS propagation (extension)  GS propagation (extension)  crack propagation	controllers  ∞ instruments measuring instruments ∞ propellant actuated devices  propellant additives GS additives . propellant additives . propellant binders solid rocket binders  RT antiicing additives antioxidants catalysts composite propellants corrosion prevention gelled propellants inhibitors plasticizers storable propellants  propellant binders GS additives . propellant additives . propellant binders solid rocket binders
Prolong GS RT Promett GS	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time  nazine drugs . antihistaminics . promethazine organic compounds . amines . promethazine . cyclic compounds . heterocyclic compounds . promethazine meus and July 1995) A natural satellite of Saturn, orbiting at distance of 139,350 kilometers.	propagation  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators  RT acoustic propagation attenuation crack propagation diffraction propagation diffusion electromagnetic radiation flame propagation propagation (extension) self propagation stress propagation transequatorial propagation transequatorial propagation wave propagation  propagation (extension)  GS propagation (extension)  crack propagation  propagation (extension)  GS propagation (extension)  crack propagation  flame propagation	controllers  ∞ instruments measuring instruments ∞ propellant additives GS additives . propellant additives . propellant binders solid rocket binders antiicing additives antiicing additives composite propellants corrosion prevention gelled propellants inhibitors plasticizers storable propellants  propellant binders GS additives . propellant additives . propellant binders . solid rocket binders binders (materials) . propellant binders . solid rocket binders BT composite propellants
Prolong GS RT  Prolong GS RT  Prometil GS	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time  nazine drugs . antihistaminics . promethazine organic compounds . amines . promethazine . cyclic compounds heterocyclic compounds heterocyclic compounds . promethazine  neus  d July 1995)  A natural satellite of Saturn, orbiting at distance of 139,350 kilometers. celestial bodies	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators  RT acoustic propagation attenuation crack propagation diffraction propagation diffusion electromagnetic radiation flame propagation propagation extress propagation stress propagation stress propagation transequatorial propagation wave propagation  propagation (extension)  GS propagation (extension)  GS propagation (extension)  ∴ crack propagation  ↑ flame propagation  RT ∞ propagation  propagation modes  GS modes	controllers  ∞ instruments measuring instruments ∞ propellant actuated devices  propellant additives GS additives . propellant additives . propellant binders solid rocket binders antioxidants catalysts composite propellants corrosion prevention gelled propellants inhibitors plasticizers storable propellants  propellant binders GS additives . propellant additives . propellant binders solid rocket binders binders (materials) . propellant binders solid rocket binders BT composite propellants glycidyl azide polymer
Prolong GS RT Promett GS	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time  nazine drugs . antihistaminics . promethazine organic compounds . amines . promethazine . cyclic compounds . heterocyclic compounds . heterocyclic compounds . promethazine  neus ad July 1995) A natural satellite of Saturn, orbiting at distance of 139,350 kilometers. celestial bodies . natural satellites	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators  RT acoustic propagation attenuation crack propagation diffraction propagation diffusion electromagnetic radiation flame propagation propagation (extension) self propagation stress propagation transequatorial propagation transequatorial propagation wave propagation  Propagation (extension)  GS propagation (extension)  GS propagation (extension)  crack propagation  flame propagation  propagation modes  GS modes  propagation modes	controllers  ∞ instruments measuring instruments ∞ propellant additives GS additives . propellant additives . propellant binders solid rocket binders antiicing additives antioxidants catalysts composite propellants corrosion prevention gelled propellants inhibitors plasticizers storable propellants  propellant binders  GS additives . propellant additives . propellant binders solid rocket binders binders solid rocket binders binders (materials) propellant binders solid rocket binders solid rocket binders solid rocket binders RT composite propellants glycidyl azide polymer rocket propellants
Prolong GS RT Promett GS	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time  nazine drugs . antihistaminics . promethazine organic compounds . amines . promethazine . cyclic compounds . heterocyclic compounds . heterocyclic compounds . promethazine meus d July 1995) A natural satellite of Saturn, orbiting at distance of 139,350 kilometers. celestial bodies . natural satellites . Saturn satellites	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators  RT acoustic propagation attenuation crack propagation diffraction propagation diffusion electromagnetic radiation flame propagation (extension) self propagation (extension) self propagation transequatorial propagation transmission wave propagation  propagation (extension)  GS propagation (extension)  GS propagation (extension)  □ crack propagation  □ flame propagati	controllers  ∞ instruments measuring instruments ∞ propellant additives GS additives . propellant additives . propellant binders solid rocket binders antioxidants catalysts composite propellants corrosion prevention gelled propellants inhibitors plasticizers storable propellants  propellant binders  GS additives . propellant additives . propellant binders . solid rocket binders  in propellant binders . propellant binders . solid rocket binders binders (materials) . propellant binders . solid rocket binders composite propellants  RT composite propellants glycidyl azide polymer
Prolog GS  RT  Prolong GS  RT  Prometi GS  Prometi (adde DEF a mean GS	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time  nazine drugs . antihistaminics . promethazine organic compounds . amines . promethazine . cyclic compounds . heterocyclic compounds . heterocyclic compounds . promethazine  neus ad July 1995) A natural satellite of Saturn, orbiting at distance of 139,350 kilometers. celestial bodies . natural satellites . Saturn satellites . Strum satellites . Prometheus	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators  RT acoustic propagation attenuation crack propagation diffraction propagation diffusion electromagnetic radiation flame propagation stress propagation stress propagation transequatorial propagation transequatorial propagation wave propagation  propagation (extension)  GS propagation (extension)  GS propagation (extension)  ∴ crack propagation  ∴ flame propagation  RT ∞ propagation  propagation modes  GS modes  ∴ whispering gallery modes  RT antipodes	controllers  ∞ instruments measuring instruments ∞ propellant actuated devices  propellant additives GS additives . propellant additives . propellant binders solid rocket binders antiicing additives antioxidants catalysts composite propellants corrosion prevention gelled propellants inhibitors plasticizers storable propellants  propellant binders GS additives . propellant additives . propellant binders solid rocket binders binders (materials) . propellant binders solid rocket binders RT composite propellants glycidyl azide polymer rocket propellants solid propellants
Prolong GS RT Promett GS	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time  nazine drugs . antihistaminics . promethazine organic compounds . amines . promethazine . cyclic compounds . heterocyclic compounds . heterocyclic compounds . promethazine meus d July 1995) A natural satellite of Saturn, orbiting at distance of 139,350 kilometers. celestial bodies . natural satellites . Saturn satellites	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators  RT acoustic propagation attenuation crack propagation diffusion electromagnetic radiation flame propagation electromagnetic radiation propagation stress propagation stress propagation transequatorial propagation transmission wave propagation  propagation (extension)  GS propagation (extension)  GS propagation (extension)  Fropagation (extension)  GS propagation (extension)  Fropagation modes  GS modes  propagation modes  GS modes  i whispering gallery modes  RT antipodes  circular waveguides	controllers  ∞ instruments measuring instruments ∞ propellant actuated devices  propellant additives GS additives . propellant additives . propellant binders solid rocket binders antiicing additives antioxidants catalysts composite propellants corrosion prevention gelled propellants inhibitors plasticizers storable propellants  propellant binders GS additives . propellant additives . propellant binders solid rocket binders binders (materials) . propellant binders . solid rocket binders RT composite propellants glycidyl azide polymer rocket propellants solid propellants solid propellants
Prolog GS RT  Prolong GS RT  Prometi GS  Prometi (adde DEF a mean GS	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time  nazine drugs . antihistaminics . promethazine organic compounds . amines . promethazine . cyclic compounds . heterocyclic compounds . heterocyclic compounds . promethazine  neus  rd July 1995) A natural satellite of Saturn, orbiting at distance of 139,350 kilometers. celestial bodies . natural satellites . Saturn satellites . Saturn satellites . Saturn (planet)	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators  RT acoustic propagation attenuation crack propagation diffraction propagation diffraction propagation electromagnetic radiation flame propagation propagation extress propagation stress propagation transequatorial propagation transequatorial propagation wave propagation  Propagation (extension)  GS propagation (extension)  GS propagation (extension)  crack propagation  propagation flame propagation  RT ∞ propagation  Propagation modes  GS modes  propagation modes  RT antipodes  circular waveguides  electromagnetic surface waves	controllers  ∞ instruments measuring instruments ∞ propellant additives GS additives . propellant additives . propellant binders solid rocket binders antiicing additives antioxidants catalysts composite propellants corrosion prevention gelled propellants inhibitors plasticizers storable propellants  propellant binders  GS additives . propellant additives . propellant binders solid rocket binders binders (materials) propellant binders Sinders (materials) propellant binders . solid rocket binders Tomposite propellants glycidyl azide polymer rocket propellants solid propellants solid propellants  propellant casting GS castings
Prolong GS RT  Prometil GS  Prometil (adde DEF a mean GS  RT  prometil	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time  nazine drugs . antihistaminics . promethazine organic compounds . amines . promethazine . cyclic compounds . heterocyclic compounds . heterocyclic compounds . promethazine  neus ad July 1995) A natural satellite of Saturn, orbiting at distance of 139,350 kilometers. celestial bodies . natural satellites . Saturn satellites . Prometheus Saturn (planet)	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators  RT acoustic propagation attenuation crack propagation diffraction propagation diffusion electromagnetic radiation flame propagation propagation (extension) self propagation (extension) self propagation transequatorial propagation transmission wave propagation  Propagation (extension)  GS propagation (extension)  GS propagation (extension)  Fropagation (extension)  OFFICE OF A MORE SPECIFIC TERM IS RECOMBLISHED IN TOP A MORE SELECTION AND TOP A MORE SELECTION AND TOP A MORE SELECTION AND THE TERM IS RECOMBLISHED IN THE TERM IS RECOMBLISHE	controllers  ∞ instruments measuring instruments ∞ propellant additives GS additives . propellant additives . propellant binders solid rocket binders antiicing additives antioxidants catalysts composite propellants inhibitors plasticizers storable propellants  propellant binders  GS additives . propellant diditives . propellant binders GS additives . propellant binders solid rocket binders binders (materials) . propellant binders  RT composite propellants glycidyl azide polymer rocket propellants solid propellants  propellant casting GS castings . propellant casting GS castings . propellant casting
Prolog GS RT  Prolong GS RT  Prometi GS  Prometi (adde DEF a mean GS	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time  nazine drugs . antihistaminics . promethazine organic compounds . amines . promethazine . cyclic compounds . heterocyclic compounds . heterocyclic compounds . promethazine  neus  rd July 1995) A natural satellite of Saturn, orbiting at distance of 139,350 kilometers. celestial bodies . natural satellites . Saturn satellites . Saturn satellites . Saturn (planet)	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators  RT acoustic propagation attenuation crack propagation diffraction propagation diffraction propagation electromagnetic radiation flame propagation propagation extress propagation stress propagation transequatorial propagation transequatorial propagation wave propagation  Propagation (extension)  GS propagation (extension)  GS propagation (extension)  crack propagation  propagation flame propagation  RT ∞ propagation  Propagation modes  GS modes  propagation modes  RT antipodes  circular waveguides  electromagnetic surface waves	controllers  ∞ instruments measuring instruments ∞ propellant additives GS additives . propellant additives . propellant binders solid rocket binders antiicing additives antioxidants catalysts composite propellants corrosion prevention gelled propellants inhibitors plasticizers storable propellants  propellant binders  GS additives . propellant additives . propellant binders solid rocket binders binders (materials) propellant binders Sinders (materials) propellant binders . solid rocket binders Tomposite propellants glycidyl azide polymer rocket propellants solid propellants solid propellants  propellant casting GS castings
Prolong GS RT  Prometil GS  Prometil (adde DEF a mean GS  RT  prometil	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time  nazine drugs . antihistaminics . promethazine organic compounds . amines . promethazine . cyclic compounds . heterocyclic compounds . heterocyclic compounds . promethazine  naural distance of 139,350 kilometers. celestial bodies . natural satellites . Saturn satellites . Saturn satellites . Saturn (planet)  nium chemical elements	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators  RT acoustic propagation attenuation crack propagation diffraction propagation diffusion electromagnetic radiation flame propagation (extension) self propagation stress propagation transequatorial propagation transmission wave propagation  propagation (extension)  GS propagation (extension)  GS propagation (extension)  □ crack propagation  □ transequatorial propagation  RT ∞ propagation  RT ∞ propagation  Propagation modes  □ spropagation modes  □ propagation modes  □ propagation modes  □ propagation modes  □ propagation spropagation modes  □ propagation modes  □ propagation modes  RT antipodes  □ circular waveguides  □ electromagnetic surface waves  □ evanescent waves  □ field mode theory	controllers  ∞ instruments measuring instruments ∞ propellant actuated devices  propellant additives GS additives . propellant binders . propellant binders antiicing additives antioxidants catalysts composite propellants inhibitors plasticizers storable propellants  propellant binders  GS additives propellant binders . propellant binders . propellant binders . solid rocket binders pinders . solid rocket binders . solid rocket binders propellant binders . solid rocket binders propellant binders . solid rocket binders binders (materials) propellant glycidyl azide polymer rocket propellants solid propellant casting forming techniques
Prolong GS RT  Prometil GS  Prometil (adde DEF a mean GS  RT  prometil	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time  nazine drugs . antihistaminics . promethazine organic compounds . amines . promethazine . cyclic compounds . heterocyclic compounds . heterocyclic compounds . promethazine neus d July 1995) A natural satellite of Saturn, orbiting at distance of 139,350 kilometers. celestial bodies . natural satellites . Saturn satellites . Saturn satellites . Prometheus Saturn (planet)  nium chemical elements . rare earth elements	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators  RT acoustic propagation attenuation crack propagation diffraction propagation diffraction propagation electromagnetic radiation flame propagation propagation (extension) self propagation stress propagation transequatorial propagation transequatorial propagation wave propagation  Propagation (extension)  GS propagation (extension)  GS propagation (extension)  crack propagation  RT ∞ propagation  propagation modes  GS modes  propagation modes  RT antipodes circular waveguides electromagnetic surface waves evanescent waves field mode theory mode transformers multimode resonators propagation velocity	controllers  ∞ instruments measuring instruments ∞ propellant additives GS additives . propellant additives . propellant binders solid rocket binders antiicing additives antioxidants catalysts composite propellants corrosion prevention gelled propellants inhibitors plasticizers storable propellants  propellant binders  GS additives . propellant binders solid rocket binders binders (materials) propellant binders solid rocket binders solid rocket binders propellant binders . solid rocket binders propellant binders . solid rocket binders propellants glycidyl azide polymer rocket propellants solid propellants solid propellants propellant casting GS castings propellant casting forming techniques casting propellant casting forming techniques . casting propellant casting forming techniques . casting . propellant casting
Prolong GS RT  Prometil GS  Prometil (adde DEF a mean GS  RT  prometil	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time  nazine drugs . antihistaminics . promethazine organic compounds . amines . promethazine . cyclic compounds . heterocyclic compounds . heterocyclic compounds . promethazine  natural satellite of Saturn, orbiting at distance of 139,350 kilometers. celestial bodies . natural satellites . Saturn satellites . Saturn satellites . Saturn (planet)  nium chemical elements . rare earth elements . promethium . promethium . promethium isotopes metals	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators  RT acoustic propagation attenuation crack propagation diffraction propagation diffusion electromagnetic radiation flame propagation (extension) self propagation stress propagation transequatorial propagation transmission wave propagation  Propagation (extension)  GS propagation (extension)  GS propagation (extension)  Fropagation (extension)  RT ∞ propagation  RT ∞ propagation modes  ∴ whispering gallery modes  RT antipodes  circular waveguides  electromagnetic surface waves  evanescent waves  field mode theory  mode transformers  multimode resonators  propagation velocity  shock wave interaction	controllers  ∞ instruments measuring instruments ∞ propellant additives GS additives . propellant additives . propellant binders solid rocket binders antioxidants catalysts composite propellants inhibitors plasticizers storable propellants  propellant binders solid rocket binders antioxidants catalysts composite propellants corrosion prevention gelled propellants inhibitors plasticizers storable propellants  propellant binders propellant binders solid rocket binders binders (materials) propellant binders solid rocket binders  RT composite propellants glycidyl azide polymer rocket propellants solid propellants  propellant casting GS castings . propellant casting forming techniques . casting . propellant casting propellant chemistry
Prolong GS RT  Prometil GS  Prometil (adde DEF a mean GS  RT  prometil	languages . programming languages . Prolog (programming language) artificial intelligence computer programming expert systems  ation extensions . prolongation time  mazine drugs . antihistaminics . promethazine organic compounds . amines promethazine cyclic compounds heterocyclic compounds heterocyclic compounds promethazine  neus ad July 1995) A natural satellite of Saturn, orbiting at distance of 139,350 kilometers. celestial bodies . natural satellites Saturn satellites Prometheus Saturn (planet)  nium chemical elements . rare earth elements . promethium promethium promethium promethium promethium isotopes	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  DEF The spreading abroad or sending forward, as of radiant energy. Used for propagators.  UF propagators  RT acoustic propagation attenuation crack propagation diffraction propagation diffraction propagation electromagnetic radiation flame propagation propagation (extension) self propagation stress propagation transequatorial propagation transequatorial propagation wave propagation  Propagation (extension)  GS propagation (extension)  GS propagation (extension)  crack propagation  RT ∞ propagation  propagation modes  GS modes  propagation modes  RT antipodes circular waveguides electromagnetic surface waves evanescent waves field mode theory mode transformers multimode resonators propagation velocity	controllers  ∞ instruments measuring instruments ∞ propellant additives GS additives . propellant additives . propellant binders solid rocket binders antiicing additives antioxidants catalysts composite propellants corrosion prevention gelled propellants inhibitors plasticizers storable propellants  propellant binders  GS additives . propellant daditives . propellant binders solid rocket binders binders (materials) propellant binders solid rocket binders solid rocket binders propellants glycidyl azide polymer rocket propellants  propellant casting GS castings propellant casting forming techniques . casting . propellant casting forming techniques . casting . propellant casting

thermochemistry

#### propellant combustion

GS combustion

. propellant combustion

. . solid propellant combustion

. . solid propellant ignition

axial modes combustion efficiency combustion stability erosive burning fuel combustion

hydrocarbon combustion

ignition metal combustion reacting flow

turbulent combustion velocity coupling

## propellant consumption

(added June 1995)

consumption

propellant consumption

burning rate combustion efficiency fuel consumption propellant tanks rocket propellants

solid propellant combustion

### propellant decomposition

ĠS decomposition

propellant decomposition

endothermic fuels fuel corrosion inhibitors monopropellants storable propellants

#### propellant evaporation

GS phase transformations

. vaporizing

. . evaporation

. . . propellant evaporation evaporative cooling

storable propellants

propellant explosions

DEF Detonations of propellants as a result of motor malfunction.

GS

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

## propellant properties

. propellant sensitivity

propellant storability RT chemical properties

elastic properties mechanical properties

∞ physical properties

∞ properties

thermodynamic properties

## propellant sensitivity

GS 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 propellant storability

fuel corrosion inhibitors storable propellants

## propellant storage

RT 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) GS

. propellant tanks cylindrical tanks expulsion bladders RT 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

## propellant transfer

GS fluid flow . fuel flow

. . propellant transfer materials handling

. propellant transfer

fuel control fuel systems liquid sloshing

refueling

### propellants

DEF 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 mix-ture 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.

## GS 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

. 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

. 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

airfoils

. propeller blades

blade tips ∞ blades fan blades feathering propellers prop-fan technology rotary wings synchrophasing

## propeller drive

GS mechanical drives

propeller drive

. helicopter propeller drive contrarotating propellers marine propulsion

propellers elastic properties neutron counters electrical properties underwater propulsion electromagnetic properties proportional limit propeller efficiency hydrophobicity elastic strength GS efficiency GS mechanical properties hygral properties . propulsive efficiency macroscopic equations . elastic properties . propeller efficiency magnetic properties ... proportional limit contrarotating propellers ∞ materials science range (extremes) power efficiency mechanical properties . proportional limit propellers critical loading optical properties prop-fan technology physical properties modulus of elasticity stress-strain diagrams plastic properties propeller fans porosity propellers GS proportional navigation prejudices propeller fans progress propellant properties (added July 1998) ducted fans navigation ∞ fans proximity . proportional navigation lift fans recoverability homing prop-fan technology interception regularity shear properties structural properties (geology) line of sight propeller noise missile control (added July 1989) proportional control surface properties GS elastic waves rendezvous guidance tensile properties . sound waves terminal guidance thermochemical properties . . noise (sound) thermodynamic properties . . . aircraft noise proposals thermophysical properties propeller noise (added February 1992) transport properties . . . flow noise GS documents turbidity . . . . aerodynamic noise . proposals virtual properties .... propeller noise contracts RT acoustic retrofitting cost analysis propfan technology aeroacoustics reports USE prop-fan technology blade slap noise research and development engine noise prop-fan technology Ffowcs Williams-Hawkings equation proprioception DEF Technology of a small diameter, highly mufflers ÙF kinesthesis loaded, many-bladed variable pitch advanced noise intensity GS perception turboprop. noise measurement . sensory perception . . proprioception . propfan technology noise prediction (aircraft) RT propeller blades noise reduction . . autokinesis propeller efficiency sound fields gravity perception propeller fans sound transmission kinesthesia turboprop engines propeller slipstreams proprioceptors GS wakes prophylaxis GS anatomy . aircraft wakes diseases . sense organs . . slipstreams immunology . . proprioceptors propeller slipstreams receptors (physiology)
. proprioceptors
baroreceptors . turbulent wakes propionic acid . . slipstreams GS acids propeller slipstreams nervous system . carboxylic acids RT interference drag sensitometry . . fatty acids .. propionic acid propellers propulsion organic compounds GS propellers GS propulsion . carboxylic acids ascent propulsion systems
 auxiliary propulsion
 chemical propulsion . contrarotating propellers . . fatty acids . propeller fans ... propionic acid shrouded propellers tilted propellers . . hybrid propulsion proportion variable pitch propellers descent propulsion systems RT distributing actuator disks . electric propulsion ratios feathering . . electromagnetic propulsion propeller blades . . . magnetic sails propeller drive proportional control . . electrostatic propulsion propeller efficiency DEF Control of an aircraft, rocket or space-. . . ion propulsion craft in which the control surface deflection is ships . . laser propulsion proportional to the movement of the remote . . plasma propulsion proper motion controls. . . solar electric propulsion (added July 2005) automatic control . jet propulsion DEF The motion of a celestial object per-. proportional control . low thrust propulsion ceived with respect to the celestial sphere. ∞ control . . electromagnetic propulsion motion control equipment . . . magnetic sails . proper motion feedback control . . electrostatic propulsion angular velocity off-on control ...ion propulsion astrometry proportional navigation . . man operated propulsion systems astronomical coordinates servocontrol . . photonic propulsion celestial reference systems . laser propulsion celestial sphere proportional counters .. plasma propulsion stellar motions ionization chambers . . solar propulsion ... solar electric propulsion . proportional counters ∞ properties . . . solar thermal propulsion measuring instruments (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) attributes SN . counters . marine propulsion . . radiation counters . . underwater propulsion ... proportional counters . . . submarine propulsion acoustic properties biodegradability radiation measuring instruments RT . nuclear propulsion . . radiation counters . . fusion propulsion ... proportional counters anticoincidence detectors chemical properties . . nuclear electric propulsion space station propulsion
spacecraft propulsion creep properties dielectric properties dynamic characteristics dosimeters

Geiger counters

. . electromagnetic propulsion

magnetic sails	total impulse	. protactinium fluorides
electrostatic propulsion	propyl compounds	protactinium isotopes
ion propulsion	propyl compounds	UF protactinium 234
matter-antimatter propulsion	RT ∞ chemical compounds	GS chemical elements
negative matter propulsion	propyl nitrate	. nuclides
photonic propulsion		
laser propulsion	GS alkyl compounds . propyl nitrate	. isotopes protactinium isotopes
plasma propulsion	esters	. protactinium
solar propulsion	. nitrate esters	protactinium isotopes
solar electric propulsion	propyl nitrate	metals
solar thermal propulsion	nitrogen compounds	. protactinium
RT aeronautical engineering	. nitrate esters	. protactinium isotopes
∞ aircraft ∞ astronautics	propyl nitrate	protactinum isotopes
	propyr mitate	protease
∞ drives	propylene	GS biopolymers
engines	GS organic compounds	. proteins
exhaust gases	. hydrocarbons	enzymes
fuel tank pressurization	aliphatic hydrocarbons	protease
fuel tanks	alkenes	organic compounds
high impulse locomotion	propylene	. proteins
mass drivers	propyrono	enzymes
	propylene oxide	protease
missiles	GS epoxy compounds	protoaco
post boost propulsion system	. propylene oxide	protection
propellants	. p. opyrone oxide	GS protection
propulsive efficiency	prospecting	. acceleration protection
pulling	USE exploration	. circuit protection
pushing	, , , , , , , , , , , , , , , , , , ,	. corrosion prevention
rocket propellants	prostaglandins	. environment protection
solar sails	GS organic compounds	. eye protection
space flight	. lipids	. meteoroid protection
Space Shuttle Main Engine	steroids	. radiation protection
space tugs	prostaglandins	radiation shielding
thrust	secretions	solar radiation shielding
	. endocrine secretions	. planetary protection
propulsion system configurations	hormones	. thermal protection
GS propulsion system configurations	prostaglandins	planetary quarantine
ascent propulsion systems	RT biosynthesis	RT accident prevention
. descent propulsion systems	prostate gland	airport security
RT aerodynamic configurations		civil defense
aerospike engines	prostate gland	coatings
aircraft configurations	GS anatomy	countermeasures
auxiliary propulsion	. genitourinary system	flying ejection seats
∞ configurations	reproductive systems	hazards
convertible fan-shaft engines	sex glands	housings
laser propulsion	prostate gland	insulation
launch vehicle configurations	. glands (anatomy)	prevention
missile configurations	sex glands	protectors
post boost propulsion system	prostate gland	∞ resistance
space station propulsion	RT bladder	safety
spacecraft configurations	prostaglandins	safety devices
∞ systems		shielding
topping cycle engines	prosthetic devices	warning
	GS medical equipment	warning systems
propulsion system performance	prosthetic devices	g -y
RT cold flow tests	. artificial ears	protective clothing
combustion efficiency	RT walking machines	GS clothing
∞ performance	-	. protective clothing
power efficiency	protactinium	helmets
propellant mass ratio	GS chemical elements	pressure suits
propulsive efficiency	. protactinium	space suits
rocket thrust	protactinium isotopes	extravehicular mobility units
solar thermal propulsion	metals	vapor barrier clothing
specific impulse	. protactinium	RT armor
∞ systems	protactinium isotopes	chemical defense
systems health monitoring		coveralls
thermodynamic efficiency	protactinium 234	emergency life sustaining system
total impulse	USE protactinium isotopes	flight clothing
		gloves
propulsive efficiency	protactinium compounds	goggles
DEF The efficiency with which energy avail-	GS protactinium compounds	masks
able for propulsion is converted into thrust by a	. protactinium fluorides	safety devices
rocket engine.	RT ∞ chemical compounds	shoes
GS efficiency	∞ metal compounds	
. propulsive efficiency		protective coatings
propeller efficiency	protactinium fluorides	UF ceramal protective coatings
RT combustion efficiency	GS halogen compounds	sprayed protective coatings
engine tests	. fluorine compounds	GS coatings
laser propulsion	fluorides	. protective coatings
multistage rocket vehicles	metal fluorides	. anodic coatings
nozzle efficiency	protactinium fluorides	ceramic coatings
power efficiency	. halides	primers (coatings)
propellant mass ratio	fluorides	refractory coatings
propellant tests	metal fluorides	RT alkyd resins
propulsion	protactinium fluorides	aluminides
propulsion system performance	metal halides	anodizing
specific impulse	metal fluorides	carbon nitrides
thermodynamic efficiency	protactinium fluorides	cladding
thrust programming	protactinium compounds	∞ construction materials

	corrosion	hexokinase	proteome
	desensitizing	lysozyme	protoplasm
	electroplating	nuclease	serums
	encapsulating		synthetic food
	1 3	oxidase	Synthetic 1000
	finishes	papain	
	glass coatings	pepsin	proteome
	glazes	* . *	(added September 2001)
	gold coatings	phosphatases	DEF An organism's protein complement as
		protease	coded for by its genome.
	HVOF thermal spraying	renin	, 0
	inorganic coatings	thrombin	RT genome
	lacquers		molecular biology
	metal coatings	trypsin	proteins
	nickel coatings	fibrin	protonio
	•	globulins	Dretere
	optical coatings	fibrinogen	Proteus
	paints	<u> </u>	(added July 1995)
	plastic coatings	gamma globulin	DEF A natural satellite of Neptune, orbiting
	plating	hemoglobin	at a mean distance of 117,600 kilometers.
		carboxyhemoglobin	·
	rubber coatings	oxyhemoglobin	
	sprayed coatings		. natural satellites
	surface finishing	keratins	Neptune satellites
	transgranular corrosion	lipoproteins	Proteus
		luminescent proteins	
	varnishes	melanin	RT Neptune (planet)
	waterproofing		
	zinc coatings	myoglobin	prothrombin
	•	myosins	GS biopolymers
protect	ore	osteocalcin	. proteins
		phytochrome	
GS	protectors		. prothrombin
	. ear protectors	proteinoids	organic compounds
RT	bumpers	prothrombin	. proteins
	*.	protoproteins	prothrombin
~	o containers	tumor suppressor proteins	
	enclosures		RT thrombin
	fairings	organic compounds	
	housings	. proteins	protium
	9	albumins	USE light water
	protection		OOL IIGHT WATER
	safety devices	aspartates	
00	o screens	calmodulin	protobiology
	sheaths	elastin	RT abiogenesis
		enzymes	biological diversity
	shielding	aldolase	
			biological evolution
protein	crystal growth	amidase	∞ biology
	ed March 1989)	carbonic anhydrase	chemical evolution
		catalase	paleontology
GS	growth		• • • • • • • • • • • • • • • • • • • •
	. crystal growth	cholinesterase	viruses
	protein crystal growth	cytochromes	
RT	protein synthesis	dehydrogenases	protocol (computers)
		hexókinase	GS protocol (computers)
	proteins		
	space processing	lysozyme	. carrier sense multiple access
		nuclease	. Ethernet
protein i	denaturation	oxidase	RT channels (data transmission)
		papain	communication networks
USE	biopolymer denaturation		
		pepsin	computer networks
protein	metabolism	phosphatases	computer security
GS	metabolism	protease	data links
	. protein metabolism	renin	data processing
			the state of the s
	lipid metabolism	thrombin	data transmission
RT	glucocorticoids	trypsin	interoperability
	protein synthesis	fibrin	local area networks
	synthetic food	globulins	networks
	Synthetic 1000		
		fibrinogen	packet switching
protein	synthesis	gamma globulin	World Wide Web
DEF	Process by which protein molecules	hemoglobin	
are form		carboxyhemoglobin	protogalaxies
RT	biological evolution	oxyhemoglobin	(added May 2002)
	chemical evolution	keratins	DEF Clouds of hydrogen gas and dark mat-
	protein crystal growth	lipoproteins	ter hypothesized to give rise to galaxies.
	protein metabolism	luminescent proteins	UF primordial galaxies
	protein metabolism		
		melanin	GS celestial bodies
protein	oids	myoglobin	. galaxies
GS	biopolymers	myosins	protogalaxies
	. proteins	osteocalcin	RT galactic clusters
	•		•
	proteinoids	phytochrome	galactic evolution
	organic compounds	proteinoids	gravitational collapse
	. proteins	prothrombin	star formation
	. proteinoids	protoproteins	
	protomorao		Proton 1 satellite
		tumor suppressor proteins	
proteins		RT adrenocorticotropin (ACTH)	GS artificial satellites
GS	biopolymers	alanine	. Soviet satellites
	. proteins	biopolymer denaturation	Proton satellites
	albumins	collagens	Proton 1 satellite
	aspartates	cysteamine	
	calmodulin	cysteine	Proton 2 satellite
	elastin	∞ food	GS artificial satellites
	enzymes	macromolecules	. Soviet satellites
	aldolase	nucleic acids	Proton satellites
	amidase	nucleotides	Proton 2 satellite
	carbonic anhydrase	∞ nutrients	But a control
	catalase	peptides	Proton 3 satellite
	cholinesterase	polynucleotides	GS artificial satellites
	cytochromes	polypeptides	. Soviet satellites
			Proton satellites
	dehydrogenases	protein crystal growth	FIOLOH Salelines

... Proton 3 satellite

Proton 4 satellite

GS artificial satellites

- . Soviet satellites
- . . Proton satellites
- . . . Proton 4 satellite

proton beams

GS beams (radiation)

- . particle beams
- . proton beams neutron beams RT

proton belts

particles

- . charged particles
- . . magnetically trapped particles

. . . radiation belts

- .... proton belts
- . corpuscular radiation . . radiation belts
- . . proton belts
- . trapped particles
- . magnetically trapped particles
- . . . radiation belts

. . . proton belts

RT ∞ belts

inner radiation belt outer radiation belt

proton damage

GS damage

. proton damage

proton density (concentration)

density (number/volume)

- particle density (concentration)
- . . ion density (concentration)
- ... proton density (concentration)

. . . magnetospheric proton density atmospheric density

atom concentration plasma density space density

proton energy

GS particle energy

proton energy RT activation energy

electron energy

∞ energy

kinetic energy surface energy

proton flux density

(LIMITED TO PROTON EMISSION OR DETECTION RATE PER UNIT AREA) rates (per time)

. flux density

. . radiant flux density

... particle flux density

. . . proton flux density

irradiance radiancy

radiation counters solar flux density

proton impact

GS impact

proton impact

electron impact point impact

proton irradiation

irradiation GS . ion irradiation

proton irradiation

deuteron irradiation electron radiation

Proton launch vehicle

(added April 1995)

launch vehicles . heavy lift launch vehicles

. Proton launch vehicle

international cooperation

Russian Space Program

space commercialization

proton magnetic resonance

GS resonance

. magnetic resonance

. . nuclear magnetic resonance

... proton magnetic resonance

proton masers

stimulated emission devices

. masers

. proton masers magnetometers

proton precession

GS gyration

precession

proton precession

RT free vibration

proton precipitation

particle precipitation GS

proton precipitation

auroras

electron precipitation

particles

precipitation

radiation belts

trapped particles

upper atmosphere

proton protuberances

protuberances

. proton protuberances

proton resonance

resonance

. magnetic resonance

. . nuclear magnetic resonance

... proton resonance

RT nuclear particles

**Proton satellites** 

GS artificial satellites

. Soviet satellites

... Proton satellites

. . . Proton 1 satellite

Proton 2 satellite

... Proton 3 satellite

Proton 4 satellite U.S.S.R. space program

proton scattering

nuclear reactions

. proton scattering

scattering

proton scattering

ion scattering

proton telescopes

RT

USE particle telescopes

proton-antiproton interactions

(added June 1999)

particle interactions . elementary particle interactions

proton-antiproton interactions

RT annihilation reactions

antiprotons

high energy interactions matter-antimatter propulsion

proton-proton reactions

DEF Thermonuclear reactions in which two protons collide at very high velocities and combine to form deuterons. The resultant deuterons may capture other protons to form tritium and the latter may undergo proton capture to form helium. The proton-proton reactions are now believed to be the principal sources of energy within the sun and other stars of its class. A temperature of 5 million degrees Kelvin and high hydrogen (proton) concentrations are required for these reactions to proceed at rates compatible with energy emission by such stars.

nuclear reactions GS

. proton-proton reactions annihilation reactions

∞ interactions

pomerons

thermonuclear reactions

protons

DEF Positively charged subatomic particles having a mass of 1. 67252 times 10 to the minus 24 gram, slightly less than that of an electron.

GS particles

. charged particles

. . protons

. . . recoil protons

. solar protons . elementary particles

. . fermions

... protons

. . . . recoil protons

. . solar protons alpha particles

antiprotons

baryons cosmic rays

deuterons flux density

hydrogen ions

ions nuclear particles

nuclei (nuclear physics) nucleon potential

nucleons positive ions radiation belts

radiation shielding tritons

protoplanetary disks

(added March 2001)
DEF Circumstellar disks from which planetary systems are created during star formation.

RT accretion disks planetary evolution

planets protoplanets solar system evolution stellar envelopes

stellar evolution

protoplanets DFF Transition objects formed during primeval cloud condensation into stellar systems (stars, planets, etc.) which form the nucleus of planetary accretion. Used for planetesimals.

UF planetesimals

GS celestial bodies

. protoplanets cosmology

planetary environments planetary evolution

planetary mass planets

protoplanetary disks solar nebula

solar orbits solar system stellar evolution

protoplasm RT proteins

protoplasts

cells (biology) . protoplasts

protoproteins

GS biopolymers

proteins protoproteins

organic compounds . proteins

... protoproteins

amino acids

protosolar nebula (added June 2001) USE solar nebula

protostars

GS celestial bodies

. stars . . protostars

. . . pre-main sequence stars

. . . . T Tauri stars

RT

RT brown dwarf stars mathematical logic mined categories of expression and comprehensolar nebula ∞ measurement star formation program verification (computers) GS linguistics stellar evolution ∞ tests . psycholinguistics RT intelligibility stellar mass accretion provisioning phonemes RT consumables (spacecrew supplies) , phonemics prototypes Preliminary type, form, or instance of  $\infty$  food robots systems that serve as models for later stages or life support systems semantics for the final, completed version of the systems. space rations syllables RT breadboard models stowage (onboard equipment) syntax ∞ patterns proximity pilot plants psychological effects distance psychological effects rapid prototyping ∞ properties . desynchronization (biology) tightness . illusions protozoa GS animals . . hallucinations . protozoa proximity effect (electricity) .. moon illusion Redistribution of current in a conductor . . oculogravic illusions . . amoeba caused by the presence of another conductor. . . optical illusion . pelomyxa . . Flagellata GS electrical properties . . . elevator illusion . inductance . jet lag . . . Euglena afterimages . proximity effect (electricity) . . trypanosome aviation psychology biological effects electromagnetic properties . paramecia . inductance microorganisms . proximity effect (electricity) boredom . protozoa RT ∞ effects comfort . amoeba electricity confidence . pelomyxa superconductors (materials) disorientation . . Flagellata volt-ampere characteristics . . . Euglena ∞ effects . . . trypanosome emotions PRTR (reactor) . paramecia environmental engineering USE plutonium recycle test reactor RT microspores environments frustration spores human factors engineering USE hydrocyanic acid human reactions protractors measuring instruments humidity GS pseudomonas protractors military psychology GS microorganisms angles (geometry) moods . bacteria psychoacoustics . . pseudomonas reaction time protuberances (COMPONENTS MOUNTED EXTERNAL TO THE STRUCTURE) space adaptation syndrome SN pseudonoise space psychology GS RT random noise protuberances stress (biology) . proton protuberances stress (psychology) aerodynamic configurations pseudopotentials Taylor manifest anxiety scale aerodynamic interference Factors in an approximate method for calculation of energy bands in solids by the use aircraft antennas psychological factors aircraft parts of approximation which includes the many body RT astronaut performance airframes effect. aviation psychology ∞ blisters impurities emotional factors cowlings melting flight stress (biology) domes (structural forms) semiconductors (materials) habits external store separation moods external stores pseudorandom sequences permissivity fairings fuel tanks RT random numbers psychoacoustics ∞ signals psychosomatics housings reward (psychology) nacelles PSP (paints) sex factor papillae (added March 2001) space psychology USE pressure sensitive paints pitot tubes ∞ stimuli radomes stress (psychology) ∞ ridges psychiatry shells (structural forms) GS medical science psychological indexes vortex alleviation . psychiatry USE psychological tests wing-fuselage stores . . neuropsychiatry winglets social psychiatry psychological sets RT brain GS psychology proustite military psychology psychological sets arsenic compounds psychology . arsenides psychotherapy psychological tests . proustite psychological indexes minerals psychoacoustics psychological tests GS acoustics . Rorschach tests . proustite . psychoacoustics certification Provider aircraft psychology environmental tests USE C-123 aircraft . psychophysics intelligence tests psychoacoustics limen military psychology personality tests proving auditory perception UF confirmation auditory signals demonstration bells pilot selection proofs bioacoustics psychometrics validation noise intensity ratios verification (proving) psychological effects Skinner boxes proving psychological factors GS Taylor manifest anxiety scale . theorem proving ∞ tests acceptability RT psycholinguistics

DEF Study of linguistic behavior such as

conditioning by psychological factors including the speaker's and listener's culturally deterpsychology

error detection codes

evaluation

examination

The science which studies the func-

tions of the mind, such as sensation, perception,

memory, thought, and, more broadly the behavsemiconductor junctions ∞ science ior of an organism in relation to its environment. public address systems GS psychology psychophysiology aviation psychology physiology RT ∞ systems . cognitive psychology psychophysiology warning systems . military psychology evoked response (psychophysiology) public health . psychological sets information processing (biology) GS biophysics . psychophysics . health physics . . psychoacoustics workloads (psychophysiology) public health space psychology health biofeedback psychoses . health physics GS psychoses boredom public health psychotic depression brain hazardous material disposal (in schizophrenia cybernetics detachment detachment space) disorders hygiene diagnosis medical services disorders fear irrationality nonpoint sources disorientation occupational diseases emotional factors neuroses oral hygiene emotions pollution psychosomatics extroversion sensorimotor performance sanitation frustration . psychomotor performance urban planning inspiration . psychosomatics intellect public law psychological factors introversion GS law (jurisprudence) psychometrics morale . public law prejudices psychotherapy psychiatry . . . legal liability GS therapy psychometrics psychotherapy . penalties psychotherapy convulsions air law Rorschach tests Gestalt theory insurance (contracts) stress (psychology) health subliminal stimuli public relations mental health RT ∞ cooperation neuropsychiatry psychometrics improvement psychiatry diagnosis promotion psychology education psychotropic drugs upgrading military psychology norms public speaking psychotic depression personality tests oratory GS psychoses psychological tests lecturés psychotic depression psychology speech RT ∞ depression psychomotor performance neurotic depression psychophysics publications psychosomatics USE documents psychotropic drugs Skinner boxes drugs **Puck** psychotropic drugs (added July 1995) psychomotor performance . marijuana A natural satellite of Uranus, orbiting at DEF Of or pertaining to muscular action central nervous system ensuing directly from a mental process, as in the a mean distance o of 86,010 kilometers. narcotics coordinated manipulation of aircraft or space-GS celestial bodies neurophysiology craft controls. . natural satellites physiochemistry . . Uranus satellites GS sensorimotor performance psychopharmacology psychomotor performance . Puck psychotherapy RT Uranus (planet) . psychosomatics sedatives abilities Puerto Rico biocontrol systems psychrometers GS landforms human performance DEF Instruments for measuring humidity . islands human reactions through the use of wet and dry bulb thermom-. . West Indies mental performance eters . Puerto Rico operator performance GS measuring instruments physiological tests pilot performance nations . moisture meters . United States . . hygrometers . . Puerto Rico psychometrics . psychrometers reaction time atmospheric moisture pulleys workloads (psychophysiology) chemical analysis RT ∞ belts humidity blocks psychopharmacology
 DEF The science that deals with the action humidity measurement idlers meteorological instruments rollers of drugs on mental function. wheels medical science psychrophiles winches . pharmacology mesophiles . . psychopharmacology central nervous system microorganisms pulling thermophiles RT ∞ drawing central nervous system depressants ∞ force central nervous system stimulants PTM (modulation) propulsion drugs USE pulse time modulation traction life sciences medical science Ptolemaeus Crater pulling (frequency stability) ∞ medicine GS craters USE frequency pulling nervous system . lunar craters psychotropic drugs . Ptolemaeus Crater pulmonary circulation meteorite craters GS circulation psychophysics . blood circulation p-type semiconductors GS psychology . pulmonary circulation alveoli semiconductors (materials) . psychophysics p-type semiconductors artificial cardiac pacemaker psychoacoustics RT ∞ physics holes (electron deficiencies) blood pumps

indium aluminum arsenides

heart implantation

psychometrics

wave propagation

lungs respiratory system

## pulmonary functions

RT alveoli ∞ functions lunas

## pulmonary lesions

GS diseases

pulmonary lesions

injuries

. lesions

. pulmonary lesions

lung morphology

occupational diseases respiratory diseases

#### pulsar magnetospheres

(added July 1988)

stellar magnetospheres

. pulsar magnetospheres

magnetic fields

∞ magnetospheres

pulsars

stellar atmospheres stellar magnetic fields

#### pulsars

celestial bodies GS

. radio sources (astronomy)

. . radio stars

. . . pulsars

. stars

. . neutron stars

... pulsars

. . radio stars . . pulsars

degenerate matter

gamma ray sources (astronomy)

magnetars

pulsar magnetospheres

quasars

radiation sources radio astronomy

radio bursts

starquakes

supernova remnants

pulsating flow

USE unsteady flow

pulse (cardiovascular) USE heart rate

### pulse amplitude

DEF A general term indicating the magnitude of a pulse. Used for pulse height.

pulse height GS

amplitudes

pulse amplitude

waveforms

. pulse amplitude

amplitude distribution analysis

electric pulses

photopeak

pulsed radiation

sawtooth waveforms

square waves

## pulse amplitude modulation

PAM (modulation)

GS coding

. signal encoding

. . pulse modulation

. pulse amplitude modulation

modulation

. pulse modulation

. pulse amplitude modulation

RT modems

P.A.C.M. telemetry

## pulse charging

DEF Rapid and efficient method for charging electric batteries.

battery chargers electric batteries electric charge

storage batteries

### pulse code modulation

Any modulation which involves a pulse code. Used for PCM (modulation).

PCM (modulation)

GS coding

. 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 digital communication

GS telecommunication

pulse communication

. digital spacecraft television

bit error rate

communication networks

data transmission

delta modulation

differential pulse code modulation

digital television

electromagnetic missiles electromagnetic pulses

frequency division multiplexing

modems multiple access

multiplexing orthogonal multiplexing theory

radio communication radio transmission satellite transmission signal transmission

space communication telegraph systems

time division multiple access

## pulse compression

The coding and processing of a signal pulse of long time duration to one of short time duration and high range resolution, while maintaining the benefits of high pulse energy.

RT coding compressing radar

## pulse detonation engines

(added March 2001)

DEF Rocket engines that operate by injecting fuel and oxidizer into long chambers and igniting the mixture with a spark plug or similar device. Quasi-steady thrust levels can be achieved by repeating this cycle at relatively high frequency and/or using more than one combustion chamber operating out of phase.

PDE (engines) PDRE (engines) PDWE (engines)

pulse detonation wave engines

GS engines

. rocket engines

. liquid propellant rocket engines

pulse detonation engines

air breathing engines detonation

pulse detonation wave engines (added March 2001)

USE pulse detonation engines

## pulse diffraction

diffraction GS

pulse diffraction

holographic optical elements plasma iets pulsed radiation

A pulse radar system which utilizes the Doppler effect for obtaining information about the target (not including simple resolution from fixed targets).

GS radar

pulse Doppler radar

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 pulse width GS

. waveforms

. pulse duration

electric pulses laser outputs maser outputs

pulse repetition rate pulsed radiation

sawtooth waveforms square waves time signals

ultrashort pulsed lasers

## pulse duration modulation

DEF A form of pulse time modulation in which the duration of a pulse is varied. Used for PDM (modulation), pulse width modulation, and PWM (modulation).

PDM (modulation) pulse width modulation PWM (modulation)

coding . signal encoding

. . pulse modulation

... pulse time modulation . pulse duration modulation

modulation

. pulse modulation

. . pulse time modulation

. pulse duration modulation

RT modems

pulse frequency modulation A form of pulse time modulation in which the pulse repetition rate is the character-

istic varied. Used for PFM (modulation).

UF PFM (modulation)

coding

. signal encoding

. . frequency modulation . pulse frequency modulation

pulse modulation . pulse frequency modulation

modulation . frequency modulation

. . pulse frequency modulation

. pulse modulation . pulse frequency modulation

communication equipment differential pulse code modulation modems

## pulse frequency modulation telemetry

GS telecommunication

. radio communication

. . radio telemetry

... pulse frequency modulation telemetry

. telemetry

. . radio telemetry ... pulse frequency modulation

telemetry transmission . signal transmission

. . telemetry . . . radio telemetry .... pulse frequency modulation telemetry communication equipment frequency modulation modulation pulse modulation radio transmission signal encoding pulse generators RT compulsators electric pulses function generators ∞ generators Hartmann-Sprenger tubes impulse generators laser cavities lasers plasma generators pulse repetition rate pulsed radiation shock wave generators pulse heating GS hardening (materials) pulse heating heat treatment . annealing . pulse heating heating . transient heating pulse heating laser heating simulated annealing pulse height USE pulse amplitude pulse modulation Modulation of a carrier by a pulse train. Modulation of one or more characteristics of a pulse carrier. GS coding . signal encoding . . 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 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 amplitude modulation demodulation demodulators electric pulses electromagnetic missiles

electromagnetic pulses

frequency modulation

light modulation

modems

modulators

phase modulation

pulse frequency modulation telemetry pulsed radiation

radio telemetry

time division multiplexing

trigatrons

## pulse position modulation

DEF A form of pulse time modulation in which the position in time of a pulse is varied.
Also called pulse phase modulation. Used for PPM (modulation).

UF PPM (modulation)

GS codina . signal encoding

. . pulse modulation

. . . pulse time modulation

pulse position modulation

. pulse modulation

. . pulse time modulation

. . pulse position modulation

modems

## pulse radar

A type of radar, designed to facilitate range measurement, in which the transmitted energy is emitted in periodic short pulses.

radar

. pulse radar

. . pulse Doppler radar

. . . monopulse radar

. . Shuttle Imaging Radar

coherent radar

continuous wave radar

Doppler radar

echo suppressors

electromagnetic pulses

meteorological radar multistatic radar

polystation doppler tracking system

search radar surveillance radar synchronizers

tracking radar

### pulse rate

(FOR CARDIOVASCULAR PULSE, USE HEART RATE)

UF chronotrons

GS rates (per time)

. pulse rate . pulse repetition rate

electric pulses picosecond pulses

pulsed radiation

pulse recorders

USE counters

## pulse repetition rate

rates (per time)

pulse rate

. pulse repetition rate

frequency response optical pumping

pulse duration pulse generators

pulsed lasers

## pulse time modulation

DEF Modulation in which the values of instantaneous samples of the modulating wave are caused to modulate the time of occurrence of some characteristic of a pulse carrier. Used for PTM (modulation).

UF PTM (modulation)

GS coding

. signal encoding

. . pulse modulation

... pulse time modulation

.... pulse duration modulation

pulse position modulation

modulation

. pulse modulation . pulse time modulation

... pulse duration modulation

. . . pulse position modulation

pulse width USE

pulse duration

# pulse width amplitude converters

 $RT \, \infty \, converters$ 

frequency converters

pulse width modulation

USE pulse duration modulation

pulsed arcjet engines (added March 2001) USE pulsed jet engines

pulsed inductive thrusters

(added April 2001)

DEF Electromagnetic propulsion devices that accelerate a plasma propellant by the JxB Lorentz force, and in which the driving current in the plasma is induced, rather than being introduced through electrodes.

UF PIT (rocket engines)

engines

. rocket engines

. . electric rocket engines

. . . plasma engines

... pulsed inductive thrusters

RT electromagnetic propulsion plasma propulsion spacecraft propulsion

∞ thrustors

pulsed jet engines
 DEF Arcjet engines that produce thrust by ejecting a pulsed, high velocity plasma out of a conventional supersonic nozzle. The pulsed arcjet 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-formingnetwork. The power supply ramps up the voltage on the capacitors until the breakdown voltage of the propellant between the electrodes is reached, at which point an arc discharge initiates in the capillary between the electrodes.

pulsed arcjet engines

engines GS

. rocket engines
. electric rocket engines

... electrothermal engines

. . . . arc jet engines

RT plasma engines resistojet engines

pulsed 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

pulsed lasers

superconducting films

vapor deposition

### pulsed lasers

stimulated emission devices

. lasers

. . pulsed lasers

... Q switched lasers

... ultrashort pulsed lasers

. . ultraviolet lasers

argon lasers

carbon dioxide lasers

gas lasers glass lasers

inertial fusion (reactor)

laser heating

laser target interactions laser welding

nitrogen lasers

pulse repetition rate pulsed laser deposition

ruby lasers

semiconductor lasers TEA lasers

tube lasers waveguide lasers

## pulsed plasma thrusters

(added April 2001)

DEF Electromagnetic propulsion devices in which electrical power is used to ablate, ionize, and electromagnetically accelerate atoms and molecules from a block of solid propellant material.

PPT (rocket engines)

GS engines

. rocket engines

	electric rocket engines		preimpregnation		preburners
	plasma engines		pressing (forming)	۰	o pumping
	pulsed plasma thrusters		resin matrix composites		siphons
RT	electromagnetic propulsion				stators
	plasma propulsion	pulveriz	ring		turbomachinery
	spacecraft propulsion	USE	grinding (comminution)		vaneless diffusers
~	o thrustors				
		pumice			ed cards
	radiation		A light-colored, vesicular, glassy rock	DEF	Cards on which a pattern of holes of
GS	pulsed radiation		nly having the composition of a rhyolite.		used to represent data.
	electromagnetic pulses	GS	rocks	GS	cards
	system generated electromagnetic		. igneous rocks		. punched cards
	pulses		pumice	RT	computer storage devices
RT	continuous radiation	RT	abrasives		data recorders
	corpuscular radiation		obsidian		data recording
	elastic waves		powder (particles)		data storage
	electromagnetic radiation		soils		readers
	gamma ray lasers				
	laser damage		mpellers		ed tapes
	lasers	GS	rotating bodies	DEF	Tapes on which a pattern of holes of
	picosecond pulses		. rotors		used to represent data.
	pulse amplitude		impellers	RT	71
	pulse diffraction	ОТ	pump impellers		computer storage devices
	pulse duration	RT	centrifugal compressors		data recording
	pulse generators		centrifugal pumps		magnetic tapes
	pulse modulation				readers
	pulse rate	pump s		۰	∘ tapes
	o radiation	GS	seals (stoppers)		
~	o rays	DT	. pump seals	punche	
		RT	gaskets	RT	dies
	t engines		∞ glands		machine tools
	Compressorless jet engines in which		glands (seals)		molds
	tion takes place intermittently producing		hermetic seals		platens
	by a series of explosions, commonly		labyrinth seals		presses
	g at the approximate resonance fre-		molecular pumps		stamping
	of the engine.				d
GS	engines	∞ <b>pumpi</b> i SN		punctur	·
	. air breathing engines	SIN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	USE	piercing
	gas turbine engines		LISTED BELOW)	nuna	
	jet engines	RT	blowing	<b>pupa</b> RT	insects
	ramjet engines		compressed air	n i	larvae
	pulsejet engines		compressing		laivae
	. internal combustion engines		cryopumping	pupil si	ize
	gas turbine engines jet engines		drainage	RT	pupillometry
			electron pumping		papinomony
	ramjet engines		jet pumps	pupillo	metry
	pulsejet engines		laser pumping	RT	biometrics
	. turbine engines		magnetic pumping		dark adaptation
	gas turbine engines		maser pumping		light adaptation
	jet engines ramjet engines		materials handling	0	∞ measurement
	pulsejet engines		nuclear pumping	_	pupil size
RT	detonation		optical pumping		pupii 3i20
п	firing (igniting)		plasma pumping	pupils	
	V-1 missile		pumps	GS	anatomy
	V-1 11113311C		purging	0.0	. sense organs
pulses			windmills (windpowered machines)		eye (anatomy)
DEF	Short-wave trains of mechanical vibra-		windpowered pumps		pupils
tion.	Onort wave traine of mooriamour vibra			RT	vision
GS	pulses	pumps	# IN HITTER TO BUILDING FOR		1101011
0.0	. electric pulses	SN	(LIMITED TO PUMPS FOR MATERIALSEXCLUDES HEAT PUMPS)	purging	1
	. electromagnetic pulses	UF	hydraulic pumps	RT	
	system generated electromagnetic	GS	pumps		clearing
	pulses		. axial flow pumps		decontamination
	. geomagnetic pulsations		turbine pumps		degassing
	geomagnetic micropulsations		. blood pumps		distillation
	. micropulsations		. centrifugal pumps		evacuating (vacuum)
	geomagnetic micropulsations		. diffusion pumps		flushing
	. picosecond pulses		electromagnetic pumps		outgassing
	. pressure pulses		. fuel pumps	۰	pumping
RT	amplitudes		. jet pumps		purification
	intermittency		. rams (pumps)		relieving
	solitary waves		. vacuum pumps	0	separation
	•		condensation pumps		venting
pultrusi	ion		ion pumps		
DEF	Process of pulling continuous lengths		molecular pumps	purifica	ation
of resin	impregnated fiber through a shaped,		. viscopumps	UF	purifiers
heated	die to produce lengths of reinforced		windpowered pumps	GS	purification
olastic.		RT	bellows		. air purification
GS	forming techniques		centrifugal compressors	RT	aeration
	extruding		ejectors		antiseptics
	pultrusion		feed systems		beneficiation
RT	casting		heat pumps		chemical sterilization
	composite structures		hydraulic equipment		cleaning
	dies		impellers		crystallization
	epoxy matrix composites		injectors		decontamination
	fiber composites		lubrication systems		demineralizing
	glass fiber reinforced plastics		materials handling		desalinization
	hot working		packings (seals)		dissipation
	polymer matrix composites		pipelines		distillation

	elimination	image processing	phenothiazines
	elution	linear arrays	
	enrichment	photodiodes	Pyrenees Mountains (Europe)
	flushing		GS landforms
	getters	nuching	. mountains
		pushing	Pyrenees Mountains (Europe)
	pasteurizing	RT ∞ force	
	polynuclear organic compounds	propulsion	
	potable water		France
	purging	push-pull amplifiers	Spain
	purity	DEF Amplifiers in which there are two iden-	
	rectification		pyrenes
		tical signal branch circuits so as to operate in	GS organic compounds
0	∘ reduction	phase opposition and with input and output	. hydrocarbons
	reduction (chemistry)	connections each balanced to ground. Used for	•
	refining	balanced amplifiers.	pyrenes
	scavenging	UF balanced amplifiers	
0	separation	GS amplifiers	Pyrex (trademark)
	sewage treatment		USE borosilicate glass
	0	. push-pull amplifiers	
	solvent extraction	RT phase modulation	pyridine nucleotides
	spacecraft sterilization	power amplifiers	GS organic compounds
	sterilization	·	. nucleotides
	sublimation	DIMM (madulation)	
	ultrapure metals	PWM (modulation)	pyridine nucleotides
	•	USE pulse duration modulation	phosphorus compounds
	upgrading		. phosphates
	washing	pycnometers	pyridine nucleotides
	water treatment		pyriame nacicolaes
	zone melting	RT density (mass/volume)	muulalinaa
	g		pyridines
purifica		pylon mounting	DEF Compounds that contain a si
purifiers		RT aerodynamic configurations	membered heterocyclic ring containing one
USE	purification	aircraft structures	trogen atom.
			GS bases (chemical)
purines	<b>i</b>	columns (supports)	,
GS	organic compounds	rigid mounting	. pyridines
ao		structural members	organic compounds
	. cyclic compounds	supports	cyclic compounds
	heterocyclic compounds	• • • • • • • • • • • • • • • • • • • •	heterocyclic compounds
	purines	wind tunnel models	, ,
	adenines		pyridines
	xanthines	pylons	RT Karl Fischer reagent
		GS supports	piperidine
	caffeine	• • • • • • • • • • • • • • • • • • • •	quinoline
	guanines	. pylons	•
	uric acid	RT columns (supports)	pyridoxine
		structural members	• •
purity		struts	UF vitamin B 6
	alarity		GS organic compounds
RT	clarity	towers	. cyclic compounds
	concentration (composition)		heterocyclic compounds
	contaminants	Pyramid Lake (NV)	pyridoxine
	contamination	GS lakes	
	decontamination		vitamins
		Pyramid Lake (NV)	. pyridoxine
	dilution	RT Nevada	• • • • • • • • • • • • • • • • • • • •
	fineness	water management	pyrimidines
	pollution	water resources	
	potable liquids	114.51 10004.000	DEF Compounds that contain a s
			membered heterocyclic ring containing nitroge
	purification	pyramidal bodies	atoms in the 1 and 3 positions.
	quality	RT ∞ bodies	GS organic compounds
	trace contaminants	pyramids	. cyclic compounds
	ultrapure metals	reentry vehicles	
	water pollution	reentry verticies	heterocyclic compounds
	water poliution		pyrimidines
		pyramids	alloxan
purpos		GS geometry	thymidine
RT	goals	. Euclidean geometry	thymine
pursuit	tracking	polyhedrons	uracil
	tracking (position)	pyramids	
ao		RT frustums	pyrites
	. pursuit tracking	pyramidal bodies	GS chalcogenides
RT	infrared tracking	F)	. sulfides
	pursuit-evasion games		pyrites
	radar tracking	pyranometers	iron compounds
		DEF Actinometers which measure the com-	
	satellite interceptors	bined intensity of incoming direct solar radiation	. pyrites
	satellite interceptors	bined intensity of incoming direct solar radiation	. <b>pyrites</b> minerals
	satellite interceptors -evasion games	and diffuse sky radiation. The pyranometers	minerals
	satellite interceptors	and diffuse sky radiation. The pyranometers consist of a recorder and a radiation sensing	minerals . <b>pyrites</b>
(adde	satellite interceptors  -evasion games ed October 1998)	and diffuse sky radiation. The pyranometers	minerals . <b>pyrites</b> sulfur compounds
(adde	satellite interceptors  -evasion games ed October 1998) games	and diffuse sky radiation. The pyranometers consist of a recorder and a radiation sensing element which is mounted so that it views the	minerals . <b>pyrites</b> sulfur compounds . sulfides
(adde	satellite interceptors  -evasion games ed October 1998) games . pursuit-evasion games	and diffuse sky radiation. The pyranometers consist of a recorder and a radiation sensing element which is mounted so that it views the entire sky. Sometimes called solarimeters.	minerals . <b>pyrites</b> sulfur compounds
(adde	satellite interceptors  -evasion games ed October 1998) games . pursuit-evasion games differential games	and diffuse sky radiation. The pyranometers consist of a recorder and a radiation sensing element which is mounted so that it views the entire sky. Sometimes called solarimeters.  GS measuring instruments	minerals . pyrites sulfur compounds . sulfides pyrites
(adde	satellite interceptors  -evasion games ed October 1998) games . pursuit-evasion games differential games evasive actions	and diffuse sky radiation. The pyranometers consist of a recorder and a radiation sensing element which is mounted so that it views the entire sky. Sometimes called solarimeters.  GS measuring instruments . radiation measuring instruments	minerals . pyrites sulfur compounds . sulfides pyrites
(adde	satellite interceptors  -evasion games ed October 1998) games . pursuit-evasion games differential games	and diffuse sky radiation. The pyranometers consist of a recorder and a radiation sensing element which is mounted so that it views the entire sky. Sometimes called solarimeters.  GS measuring instruments . radiation measuring instruments . actinometers	minerals . pyrites sulfur compounds . sulfides pyrites  Pyroceram (trademark)
(adde	satellite interceptors  -evasion games ed October 1998) games . pursuit-evasion games differential games evasive actions	and diffuse sky radiation. The pyranometers consist of a recorder and a radiation sensing element which is mounted so that it views the entire sky. Sometimes called solarimeters.  GS measuring instruments . radiation measuring instruments	minerals . pyrites sulfur compounds . sulfides . pyrites  Pyroceram (trademark) GS ceramics
(adde	satellite interceptors  -evasion games ed October 1998) games . pursuit-evasion games differential games evasive actions interception optimal control	and diffuse sky radiation. The pyranometers consist of a recorder and a radiation sensing element which is mounted so that it views the entire sky. Sometimes called solarimeters.  GS measuring instruments . radiation measuring instruments . actinometers	minerals . pyrites sulfur compounds . sulfides pyrites  Pyroceram (trademark) GS ceramics . Pyroceram (trademark)
(adde	satellite interceptors  -evasion games ed October 1998) games . pursuit-evasion games differential games evasive actions interception optimal control pursuit tracking	and diffuse sky radiation. The pyranometers consist of a recorder and a radiation sensing element which is mounted so that it views the entire sky. Sometimes called solarimeters.  GS measuring instruments . radiation measuring instruments . actinometers pyranometers  RT photometers	minerals . pyrites sulfur compounds . sulfides . pyrites  Pyroceram (trademark) GS ceramics . Pyroceram (trademark) glass
(adde	satellite interceptors  -evasion games ed October 1998) games . pursuit-evasion games differential games evasive actions interception optimal control pursuit tracking trajectory optimization	and diffuse sky radiation. The pyranometers consist of a recorder and a radiation sensing element which is mounted so that it views the entire sky. Sometimes called solarimeters.  GS measuring instruments . radiation measuring instruments . actinometers pyranometers PT photometers radiometers	minerals . pyrites sulfur compounds . sulfides pyrites  Pyroceram (trademark) GS ceramics . Pyroceram (trademark)
(adde	satellite interceptors  -evasion games ed October 1998) games . pursuit-evasion games differential games evasive actions interception optimal control pursuit tracking	and diffuse sky radiation. The pyranometers consist of a recorder and a radiation sensing element which is mounted so that it views the entire sky. Sometimes called solarimeters.  GS measuring instruments . radiation measuring instruments . actinometers pyranometers  RT photometers	minerals . pyrites sulfur compounds . sulfides . pyrites  Pyroceram (trademark) GS ceramics . Pyroceram (trademark) glass
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pushbre DEF in which linear at the spa high ser	satellite interceptors  -evasion games ed October 1998) games . pursuit-evasion games differential games evasive actions interception optimal control pursuit tracking trajectory optimization zero sum games  oom sensor modes Spacecraft instrument arrangements rays are swept by the forward motion of incecraft to attain increased fidelity and institivity in the data captured. modes . pushbroom sensor modes arrays	and diffuse sky radiation. The pyranometers consist of a recorder and a radiation sensing element which is mounted so that it views the entire sky. Sometimes called solarimeters.  GS measuring instruments . radiation measuring instruments . actinometers . pyranometers  RT photometers radiometers sky radiation  pyrazines  DEF Compounds that contain a sixmembered heterocyclic ring containing nitrogen atoms in the 1 and 4 positions.  GS pyrazines . azines . cyanurates . cyanurates . cyanuric acid . meclizine	minerals . pyrites sulfur compounds . sulfides . pyrites  Pyroceram (trademark) GS ceramics . Pyroceram (trademark) glass . Pyroceram (trademark)  pyroelectricity GS electrical properties . pyroelectricity thermodynamic properties . thermophysical properties . pyroelectricity RT piezoelectricity polarization (charge separation)  pyrogen
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. flammable gases	ceramics	plastic propellants
pyrogen	∞ materials	projectiles
RT torches	refractory coatings	RDX
	refractory materials	∞ rockets
pyrographalloy	•	∞ signals
USE composite materials	pyrometallurgy	thermites
pyrolytic graphite	RT aerothermochemistry	
refractory materials	alloying	pyroxenes
•	chlorination	DEF A group of dark, rock-forming silicate
pyroheliometers	∞ converters	minerals.
DEF Actinometers which measure the in-	heat balance	GS chalcogenides
tensity of direct solar radiation, consisting of a	metal working	. oxides
radiation sensing element enclosed in a casing	∞ metallurgy	pyroxenes
which is closed except for a small aperture,	refining	enstatite
through which the direct solar rays enter, and a	sintering	minerals
recorder unit. Used for heliometry.	sublimation	. pyroxenes
UF heliometry		enstatite
GS measuring instruments	thermochemistry	silicon compounds
. heliometers	pyrometers	. silicates
pyroheliometers	DEF Instruments that measure high tem-	
		pyroxenes
optical equipment	perature, e.g., of molten lavas, by electrical or	enstatite
. heliometers	optical means.	RT eclogite
pyroheliometers	GS measuring instruments	igneous rocks
telescopes	. temperature measuring instruments	regolith
. heliometers	pyrometers	rocks
pyroheliometers	radiation pyrometers	soils
and the state of the	thermocouple pyrometers	"
pyrohydrolysis	RT temperature measurement	pyroxylin
DEF Decomposition by the action of heat		USE cellulose nitrate
and water vapor.	pyrometry	numb atita
GS chemical reactions	USE temperature measurement	pyrrhotite
. pyrohydrolysis		DEF A common reddish-brown to bronze
RT pyrolysis	pyrophoric materials	hexagonal mineral.
	RT explosives	GS chalcogenides
pyrolysis	flammability	. sulfides
DEF Chemical decomposition by the action	hypergolic rocket propellants	pyrrhotite
of heat.	igniters	troilite
GS chemical reactions	ignition temperature	iron compounds
. cracking (chemical engineering)	∞ materials	. pyrrhotite
pyrolysis	metal combustion	troilite
. thermal decomposition	solid propellant ignition	minerals
pyrolysis	spontaneous combustion	. pyrrhotite
decomposition	·	troilite
. cracking (chemical engineering)	pyrophyllite	sulfur compounds
pyrolysis	DEF A white, greenish, gray, or brown phyl-	. sulfides
. thermal decomposition	losilicate mineral that resembles talc.	pyrrhotite
. pyrolysis	GS aluminum compounds	troilite
RT ablation	. aluminum silicates	
endothermic reactions	pyrophyllite	pyrroles
exothermic reactions	minerals	DEF Compounds that contain a five
pyrohydrolysis	. pyrophyllite	membered heterocyclic ring containing one ni
thermal absorption	silicon compounds	trogen atom.
thermal degradation	. silicates	GS organic compounds
thermal degradation		. cyclic compounds
,	aluminum silicates	heterocyclic compounds
thermogravimetry	pyrophyllite	azoles
numeludie evenhite	RT aluminum oxides	pyrroles
pyrolytic graphite	nyrotochnico	carbazoles
UF pyrographalloy	pyrotechnics	RT indoles
GS carbonaceous materials	UF fireworks	methoxy systems
. graphite	GS pyrotechnics	polypyrroles
pyrolytic graphite	. HMX	
minerals	RT ammunition	thiophenes
. graphite	bombs (ordnance)	Pyrrones (trademark)
pyrolytic graphite	chemical fuels	GS nitrogen compounds
pyrolytic materials	double base propellants	9 1
. pyrolytic graphite	explosives	. nitrogen polymers
RT heat shielding	∞ flares	Pyrrones (trademark)
	grenades	RT ∞ polymers
pyrolytic materials	illuminating	pyruvates
GS pyrolytic materials	incendiary ammunition	
. pyrolytic graphite	initiators (explosives)	RT organic liquids
RT ablative materials	ordnance	

Q devices	quadrants	. quadrupole networks
RT magnetic mirrors		
plasma pinch	quadraphase shift keying	quadrupoles
zeta pinch	USE quadrature phase shift keying	DEF A linear accelerator having four longi-
,		tudinal vanes in its resonating cavity, which are
Q factors	and a Property of the control of the	shaped to create RF electric fields that simulta-
UF high Q	quadratic equations	neously accelerate, bunch, and focus the
	GS algebra	charged particle beam.
quality factors	. nonlinear equations	0 1
RT figure of merit	quadratic equations	RT ∞ dipoles
resonant vibration	analysis (mathematics)	nuclear quadrupole resonance
spectral resolution	. real variables	polarity
tuning		
9	nonlinear equations	quail missile
Q switched lasers	quadratic equations	GS decoys
	field theory (algebra)	. quail missile
DEF A device for producing very short	. quadratic equations	
(about 30 ns)intense laser pulses by enhancing	RT ∞ equations	missiles
the storage and dumping of electronic energy in	polynomials	. air to surface missiles
and out of the lasing medium.	polynomialo	quail missile
GS stimulated emission devices		RT countermeasures
. lasers	quadratic programming	turbojet engines
	GS optimization	
pulsed lasers	. mathematical programming	qualifications
Q switched lasers	quadratic programming	RT certification
RT argon lasers	research	
carbon dioxide lasers	. quadratic programming	contractors
chemical lasers		education
gas lasers	RT ∞ programming	experience
ruby lasers		fitness
	quadrature amplitude modulation	personality tests
semiconductor lasers	(added August 1991)	personnel
solid state lasers	DEF Amplitude modulation in which the sig-	∞ tests
Q values (nuclear physics)	nal is 90 degrees out of phase with the carrier	
GS value	which it modulates.	qualitative analysis
. Q values (nuclear physics)	UF QAM (modulation)	DEF An analysis in which some or all of the
RT fusion reactors	GS coding	components of a sample are identified.
	. signal encoding	GS chemical tests
storage rings (particle accelerators)	amplitude modulation	. chemical analysis
thermonuclear reactions	quadrature amplitude	qualitative analysis
tokamak devices		
	modulation	RT analytical chemistry
QAM (modulation)	modulation	electrophotometry
USE quadrature amplitude modulation	. amplitude modulation	flame spectroscopy
OSE quadrature amplitude modulation	quadrature amplitude	gas analysis
<b>.</b> .	modulation	inductively coupled plasma mass
Qatar	RT phase shift keying	spectrometry
(added February 1989)	, , ,	
GS nations	quadrature phase shift keying	mass spectrometers
. Qatar		microanalysis
RT Asia	quadrature approximation	neutron activation analysis
III Asia	USE quadratures	quantitative analysis
000 ( "	002 4444.444.00	spectroscopic analysis
QBO (climatology)		
(added May 2001)	quadrature phase shift keying	quality
USE quasi-biennial oscillation	(added May 1991)	
	UF <i>QPSK</i>	GS quality
QCD	quadraphase shift keying	. environmental quality
USE quantum chromodynamics	GS coding	air quality
OSE quantum chromodynamics	. signal encoding	water quality
		riding quality
QH-50 helicopter	phase modulation	RT accuracy
arr or noncopier		
UF Dash helicopter	phase shift keying	,
UF Dash helicopter	pnase snift keying quadrature phase shift keying	adequacy
UF Dash helicopter DSN helicopter	pnase snift keying quadrature phase shift keying keying	adequacy appearance
UF Dash helicopter DSN helicopter Gyrodyne DSN-3 helicopter	quadrature phase shift keying keying	adequacy appearance computer systems performance
UF Dash helicopter DSN helicopter Gyrodyne DSN-3 helicopter Gyrodyne military aircraft	quadrature phase shift keying keying . phase shift keying	adequacy appearance
UF Dash helicopter DSN helicopter Gyrodyne DSN-3 helicopter Gyrodyne military aircraft GS Gyrodyne aircraft	quadrature phase shift keying keying . phase shift keying quadrature phase shift keying	adequacy appearance computer systems performance
UF Dash helicopter DSN helicopter Gyrodyne DSN-3 helicopter Gyrodyne military aircraft GS Gyrodyne aircraft QH-50 helicopter	quadrature phase shift keying keying . phase shift keying . quadrature phase shift keying modulation	adequacy appearance computer systems performance concentration (composition)
UF Dash helicopter DSN helicopter Gyrodyne DSN-3 helicopter Gyrodyne military aircraft GS Gyrodyne aircraft	quadrature phase shift keying keying . phase shift keying quadrature phase shift keying modulation . phase modulation	adequacy appearance computer systems performance concentration (composition) consistency contaminants
UF Dash helicopter DSN helicopter Gyrodyne DSN-3 helicopter Gyrodyne military aircraft GS Gyrodyne aircraft QH-50 helicopter	quadrature phase shift keying keying phase shift keying	adequacy appearance computer systems performance concentration (composition) consistency contaminants controllability
UF Dash helicopter DSN helicopter Gyrodyne DSN-3 helicopter Gyrodyne military aircraft GS Gyrodyne aircraft . QH-50 helicopter V/STOL aircraft	quadrature phase shift keying keying phase shift keying quadrature phase shift keying modulation phase modulation phase shift keying nodulation quadrature phase shift keying quadrature phase shift keying	adequacy appearance computer systems performance concentration (composition) consistency contaminants controllability durability
UF Dash helicopter DSN helicopter Gyrodyne DSN-3 helicopter Gyrodyne military aircraft GS Gyrodyne aircraft . QH-50 helicopter V/STOL aircraft . rotary wing aircraft . helicopters	quadrature phase shift keying keying phase shift keying	adequacy appearance computer systems performance concentration (composition) consistency contaminants controllability durability evaluation
UF Dash helicopter DSN helicopter Gyrodyne DSN-3 helicopter Gyrodyne military aircraft GS Gyrodyne aircraft . QH-50 helicopter V/STOL aircraft . rotary wing aircraft . helicopters military helicopters	quadrature phase shift keying keying phase shift keying quadrature phase shift keying modulation phase modulation phase shift keying nodulation quadrature phase shift keying quadrature phase shift keying	adequacy appearance computer systems performance concentration (composition) consistency contaminants controllability durability evaluation figure of merit
UF Dash helicopter DSN helicopter Gyrodyne DSN-3 helicopter Gyrodyne military aircraft GS Gyrodyne aircraft . QH-50 helicopter V/STOL aircraft . rotary wing aircraft . helicopters	eying keying phase shift keying phase shift keying quadrature phase shift keying modulation phase modulation phase shift keying phase shift keying modulation phase shift keying adrature phase shift keying quadrature amplitude modulation	adequacy appearance computer systems performance concentration (composition) consistency contaminants controllability durability evaluation
UF Dash helicopter DSN helicopter Gyrodyne DSN-3 helicopter Gyrodyne military aircraft GS Gyrodyne aircraft . QH-50 helicopter V/STOL aircraft . rotary wing aircraft . helicopters . military helicopters QH-50 helicopter	keying keying . phase shift keying . phase shift keying . quadrature phase shift keying modulation . phase modulation . phase shift keying quadrature phase shift keying BT binary phase shift keying	adequacy appearance computer systems performance concentration (composition) consistency contaminants controllability durability evaluation figure of merit
UF Dash helicopter DSN helicopter Gyrodyne DSN-3 helicopter Gyrodyne military aircraft GS Gyrodyne aircraft . QH-50 helicopter V/STOL aircraft . rotary wing aircraft . helicopters military helicopters QH-50 helicopter	keying keying phase shift keying phase shift keying duadrature phase shift keying modulation phase modulation phase shift keying modulation aphase shift keying modulation shift keying modulation aphase shift keying modulation satellite transmission	adequacy appearance computer systems performance concentration (composition) consistency contaminants controllability durability evaluation figure of merit fineness
UF Dash helicopter DSN helicopter Gyrodyne DSN-3 helicopter Gyrodyne military aircraft GS Gyrodyne aircraft . QH-50 helicopter V/STOL aircraft . rotary wing aircraft . helicopters . military helicopters QH-50 helicopter	keying keying phase shift keying phase shift keying quadrature phase shift keying modulation phase modulation phase shift keying quadrature phase shift keying modulation phase shift keying modulation phase shift keying modulation satellite transmission	adequacy appearance computer systems performance concentration (composition) consistency contaminants controllability durability evaluation figure of merit fineness flight characteristics ∞ grade
UF Dash helicopter DSN helicopter Gyrodyne DSN-3 helicopter Gyrodyne military aircraft GS Gyrodyne aircraft . QH-50 helicopter V/STOL aircraft . rotary wing aircraft . helicopters military helicopters QH-50 helicopter	keying keying phase shift keying phase shift keying duadrature phase shift keying modulation phase modulation phase shift keying modulation aphase shift keying modulation shift keying modulation aphase shift keying modulation satellite transmission	adequacy appearance computer systems performance concentration (composition) consistency contaminants controllability durability evaluation figure of merit fineness flight characteristics ∞ grade impurities
UF Dash helicopter DSN helicopter Gyrodyne DSN-3 helicopter Gyrodyne military aircraft GS Gyrodyne aircraft . OH-50 helicopter V/STOL aircraft . rotary wing aircraft . helicopters . military helicopter  . CH-50 helicopter	keying keying phase shift keying phase shift keying quadrature phase shift keying modulation phase modulation phase shift keying quadrature phase shift keying modulation phase shift keying modulation phase shift keying modulation satellite transmission	adequacy appearance computer systems performance concentration (composition) consistency contaminants controllability durability evaluation figure of merit fineness flight characteristics ∞ grade impurities ∞ materials tests
UF Dash helicopter DSN helicopter Gyrodyne DSN-3 helicopter Gyrodyne military aircraft GS Gyrodyne aircraft QH-50 helicopter V/STOL aircraft rotary wing aircraft helicopters Melicopters Unilitary helicopters UH-50 helicopter  GHE (electronics) (added July 2000) USE quantum Hall effect	keying keying phase shift keying phase shift keying quadrature phase shift keying modulation phase modulation phase shift keying quadrature phase shift keying phase shift keying quadrature phase shift keying quadrature amplitude modulation satellite transmission  quadratures  DEF Elongations of 90 deg., usually specified as east or west in accordance with the	adequacy appearance computer systems performance concentration (composition) consistency contaminants controllability durability evaluation figure of merit fineness flight characteristics  grade impurities materials tests performance
UF Dash helicopter DSN helicopter Gyrodyne DSN-3 helicopter Gyrodyne military aircraft GS Gyrodyne aircraft QH-50 helicopter V/STOL aircraft rotary wing aircraft helicopters military helicopters umilitary helicopter  CHE (electronics) (added July 2000) USE quantum Hall effect	keying keying phase shift keying phase shift keying quadrature phase shift keying modulation phase modulation phase shift keying replacement of the body from the shift keying addrature phase shift keying plant binary phase shift keying quadrature amplitude modulation satellite transmission  quadratures  DEF Elongations of 90 deg., usually specified as east or west in accordance with the direction of the body from the sun. The moon is	adequacy appearance computer systems performance concentration (composition) consistency contaminants controllability durability evaluation figure of merit fineness flight characteristics ∞ grade impurities ∞ materials tests
UF Dash helicopter DSN helicopter Gyrodyne DSN-3 helicopter Gyrodyne military aircraft GS Gyrodyne aircraft QH-50 helicopter V/STOL aircraft rotary wing aircraft helicopters Melicopters Unilitary helicopters UH-50 helicopter  GHE (electronics) (added July 2000) USE quantum Hall effect	keying keying phase shift keying phase shift keying quadrature phase shift keying modulation phase modulation phase shift keying modulation phase shift keying modulation phase shift keying modulature phase shift keying modulature phase shift keying adurature amplitude modulation satellite transmission  quadratures DEF Elongations of 90 deg., usually specified as east or west in accordance with the direction of the body from the sun. The moon is a quadrature at first and last quarters. The	adequacy appearance computer systems performance concentration (composition) consistency contaminants controllability durability evaluation figure of merit fineness flight characteristics  grade impurities materials tests performance
UF Dash helicopter DSN helicopter Gyrodyne DSN-3 helicopter Gyrodyne military aircraft GS Gyrodyne aircraft QH-50 helicopter V/STOL aircraft rotary wing aircraft helicopters military helicopters umilitary helicopter  CHE (electronics) (added July 2000) USE quantum Hall effect	keying keying . phase shift keying . phase shift keying . quadrature phase shift keying modulation . phase modulation . phase shift keying quadrature phase shift keying quadrature phase shift keying guadrature amplitude modulation satellite transmission  quadratures  DEF Elongations of 90 deg., usually specified as east or west in accordance with the direction of the body from the sun. The moon is a quadrature at first and last quarters. The situation of two periodic quantities differing by a	adequacy appearance computer systems performance concentration (composition) consistency contaminants controllability durability evaluation figure of merit fineness flight characteristics ∞ grade impurities ∞ materials tests ∞ performance pollution precision
UF Dash helicopter DSN helicopter Gyrodyne DSN-3 helicopter Gyrodyne military aircraft GS Gyrodyne aircraft QH-50 helicopter V/STOL aircraft rotary wing aircraft helicopters military helicopters umilitary helicopter  CHE (electronics) (added July 2000) USE quantum Hall effect	keying keying . phase shift keying . phase shift keying . quadrature phase shift keying modulation . phase modulation . phase shift keying quadrature phase shift keying quadrature phase shift keying guadrature amplitude modulation satellite transmission  quadratures  DEF Elongations of 90 deg., usually specified as east or west in accordance with the direction of the body from the sun. The moon is a quadrature at first and last quarters. The situation of two periodic quantities differing by a quarter of a cycle. Used for quadrature approxi-	adequacy appearance computer systems performance concentration (composition) consistency contaminants controllability durability evaluation figure of merit fineness flight characteristics ∞ grade impurities ∞ materials tests ∞ performance pollution precision product development
UF Dash helicopter DSN helicopter Gyrodyne DSN-3 helicopter Gyrodyne military aircraft GS Gyrodyne aircraft . QH-50 helicopter V/STOL aircraft . rotary wing aircraft . helicopters military helicopter  QHE (electronics) (added July 2000) USE quantum Hall effect  QPSK USE quadrature phase shift keying  QSO (radio sources)	keying keying phase shift keying phase shift keying quadrature phase shift keying modulation phase modulation phase shift keying ndulation phase shift keying ndulation phase shift keying ndulation shift keying audrature phase shift keying quadrature amplitude modulation satellite transmission  quadratures  DEF Elongations of 90 deg., usually specified as east or west in accordance with the direction of the body from the sun. The moon is a quadrature at first and last quarters. The situation of two periodic quantities differing by a quarter of a cycle. Used for quadrature approximation.	adequacy appearance computer systems performance concentration (composition) consistency contaminants controllability durability evaluation figure of merit fineness flight characteristics      grade     impurities     materials tests     performance pollution precision product development purity
UF Dash helicopter DSN helicopter Gyrodyne DSN-3 helicopter Gyrodyne military aircraft GS Gyrodyne aircraft . OH-50 helicopter V/STOL aircraft . rotary wing aircraft . helicopters . military helicopter  . QH-50 helicopter  QHE (electronics) (added July 2000) USE quantum Hall effect  QPSK USE quadrature phase shift keying	keying keying . phase shift keying . phase shift keying . quadrature phase shift keying modulation . phase modulation . phase shift keying quadrature phase shift keying quadrature phase shift keying guadrature amplitude modulation satellite transmission  quadratures  DEF Elongations of 90 deg., usually specified as east or west in accordance with the direction of the body from the sun. The moon is a quadrature at first and last quarters. The situation of two periodic quantities differing by a quarter of a cycle. Used for quadrature approxi-	adequacy appearance computer systems performance concentration (composition) consistency contaminants controllability durability evaluation figure of merit fineness flight characteristics ograde impurities materials tests performance pollution precision product development purity reliability
UF Dash helicopter DSN helicopter Gyrodyne DSN-3 helicopter Gyrodyne military aircraft GS Gyrodyne aircraft QH-50 helicopter V/STOL aircraft rotary wing aircraft helicopters Military helicopters MH-50 helicopter CHE (electronics) (added July 2000) USE quantum Hall effect  QPSK USE quadrature phase shift keying  QSO (radio sources) USE quasars	keying keying phase shift keying phase shift keying quadrature phase shift keying modulation phase modulation phase shift keying replace of the phase shift keying phase shift keying replace of the phase shift keying guadrature amplitude modulation satellite transmission  quadratures  DEF Elongations of 90 deg., usually specified as east or west in accordance with the direction of the body from the sun. The moon is a quadrature at first and last quarters. The situation of two periodic quantities differing by a quarter of a cycle. Used for quadrature approximation.  UF quadrature approximation	adequacy appearance computer systems performance concentration (composition) consistency contaminants controllability durability evaluation figure of merit fineness flight characteristics      grade     impurities     materials tests     performance pollution precision product development purity reliability     resistance
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## 776

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 lessons learned linear prediction low temperature tests Mann-Whitney-Wilcoxon U test ∞ materials tests 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 ∞ svstems task complexity tasks ∞ tests

tolerances (mechanics)

ultrasonic flaw detection

value engineering

variability variance (statistics) wear tests quality factors

#### quantiles

USE Q factors

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 quantiles mathematical models statistical distributions statistics symmetry

#### quantitative analysis

chemical tests . chemical analysis . . quantitative analysis . . . Kjeldahl method

Van Slyke method

analytical chemistry chromatography electrophotometry gas analysis gravimetry iodimetry Karl Fischer reagent microanalysis

neutron activation analysis polarography qualitative analysis radiochemical separation

spectroscopic analysis volumetric analysis

quantity USF amount

quantization

USE measurement

quantizer

USE counters

## quantum amplifiers

GS amplifiers

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

DEF 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

instantons leptons

particle interactions

quantum mechanics

quark models quarks

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)

DEF Any form of information processing that depends on coherent quantum-mechanical effects (quantum interference or quantum entanglement) to perform computational tasks.

ŨF 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.

data processing equipment

computers

. quantum computers

quantum computation

quantum computing (added March 2000)

USE quantum computation

## quantum counters

GS measuring instruments

. counters

. . radiation counters

... quantum counters

. radiation measuring instruments

. . radiation counters . quantum counters

squid (detectors)

# quantum cryptography

(added March 2000)

DEF Any form of cryptography that depends

for its security on coherent quantum-mechanical effects (quantum interference or quantum en-

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.

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 RT

single electron transistors

energy conversion efficiency energy technology heterojunction devices laser outputs solar cells volt-ampere characteristics

## quantum electrodynamics

electrodynamics . quantum electrodynamics

mechanics (physics)

. quantum mechanics

electromagnetic fields Feynman diagrams field theory (physics) Landau-Ginzburg equations resonance fluorescence self consistent fields

## quantum electronics

The area of physics dealing with the effects of quantum mechanics on the behavior of electrons in matter, and their interactions with photons. The field also encompasses the basic processes of laser operation where photons are interacting with electrons.

RT coherent electromagnetic radiation

 $\infty$  electronics laser applications nanofabrication nanostructures (devices) nanotechnology nanowires quantum dots quantum Hall effect quantum mechanics quantum optics quantum theory quantum wires resonant tunneling resonant tunneling diodes 
 solid state physics tunnel junctions

quantum generators

USE stimulated emission devices

### quantum Hall effect

(added July 2000)

Phenomenon where the Hall resistance of a two-dimensional electron system at low temperature and high magnetic fields, betemperature and nign 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.

UF QHE (electronics)

GS galvanomagnetic effects . Hall effect

. quantum Hall effect

electron gas Hall resistance magnetic effects quantum electronics semiconductor devices superlattices

#### quantum mechanics

mechanics (physics)

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

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

Wigner coefficient

#### quantum numbers

A number 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

RT atom optics nonlinear optics ∞ optics physical optics quantum electronics quantum mechanics quantum theory

## quantum statistics

Bose-Einstein statistics bosons Fermi-Dirac statistics fermions many body problem ∞ statistics 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.

UF Wightman theory

theoretical physics

. quantum theory

. . Bohr theory angular momentum

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

 $\infty$  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

focal plane devices gallium arsenides quantum wells thermal mapping thermography

## quantum well lasers

(added September 1993) GS electronic equipment

. solid state devices

. . semiconductor devices . . . semiconductor lasers

.... quantum well lasers

. . solid state lasers . quark parton model pressure sensors . . quantum well lasers hadrons stimulated emission devices inelastic scattering quartzite . lasers leptons GS rocks . . semiconductor lasers nuclear models . metamorphic rocks . . . quantum well lasers partons quartzite . . solid state lasers quarks . . quantum well lasers energy gaps (solid state) quarks quasars heterojunction devices GS particles QSO (radio sources) indium gallium arsenides . elementary particles quasi-stellar radio sources indium phosphides . . hypothetical particles celestial bodies laser materials . . quarks . radio sources (astronomy) flavor (particle physics) quantum cascade lasers . quasars quantum wells aluons active galactic nuclei waveguide lasers instantons active galaxies partons blazars quantum wells quantum chromodynamics extragalactic radio sources DEF Effective potential wells created by a quark models galaxies minimum in the conduction band or a maximum quark parton model gravitational collapse in the valence band that arises when a smaller irregular galaxies pulsars band-gap semiconductor is sandwiched bequarries tween a larger band-gap semiconductor. USE mines (excavations) radio astronomy GS potential energy radio bursts . electric potential radio emission quartic equations . . quantum wells GS algebra radio galaxies . . photoexcitation . nonlinear equations radio jets (astronomy) band structure of solids quartic equations radio stars binding energy analysis (mathematics) stars blue shift . real variables x ray spectra conduction bands . . nonlinear equations conduction electrons quartic equations energy bands Quasat  $RT \, \infty \, equations$ energy gaps (solid state) (QUASAR SATELLITE) artificial satellites gaps quartiles heterojunction devices heterojunctions scientific satellites probability density functions . . astronomical satellites statistical analysis quantum cascade lasers Quasat statistical distributions quantum dots observatories . astronomical observatories quantum well infrared photodetectors quartz quantum well lasers . . astronomical satellites Crystalline silica, an important rockquantum wires .. Quasat forming mineral. resonant tunneling European space programs GS chalcogenides resonant tunneling diodes NASA programs . oxides valence radio astronomy . . dioxides radio telescopes . . . silicon dioxide quantum wires spaceborne astronomy . . . . guartz (added October 1997) very long base interferometry . . . . coesite nanostructures (devices) .... stishovite . nanowires . . silicon oxides quasi-biennial oscillation . quantum wires . . . silicon dioxide (added May 2001) nanotechnology . . . . quartz DEF A natural, quasi-periodic (2-2. 5 years) nonlinear optics . . . . . coesite oscillation of the zonal (east-west) stratospheric quantum dots . . . . stishovite winds over the equatorial region. The quasiquantum electronics minerals biennial oscillation (QBO) affects stratospheric quantum wells . quartz temperatures and trace gases (including ozone) semiconductor devices . . coesite and influences the response of the stratosphere semiconductor lasers stishovite to volcanic eruptions. silicon compounds QBO (climatology) UF Quaoar . silicon oxides oscillations GS (added October 2002) . . silicon dioxide . quasi-biennial oscillation DEF Kuiper Belt object about 1,250 km in . . . quartz variations diameter and about 43 Astronomical Units from periodic variations
quasi-biennial oscillation
annual variations . . . . coesite the Sun. . . . stishovite GS celestial bodies abrasives . asteroids atmospheric circulation atmospheric temperature felsite Quaoar flint . trans-Neptunian objects igneous rocks climatology Quaoar rocks RT asteroid belts el Nino sands equatorial atmosphere Kuiper belt soils ozone solar system Southern Oscillation quartz crystals tropical meteorology quark models crystals GS zonal flow (meteorology) models quartz crystals . quark models frequency control . quark parton model frequency stability quasilinearity flavor (particle physics) radio transmitters USE nonlinearity particle theory silicon dioxide quantum chromodynamics duarks quasi-particles quartz lamps standard model (particle physics) USE elementary excitations lighting equipment . luminaires quark parton model A theoretical model which summarizes . . quartz lamps quasi-steady states our understanding of how protons and neutrons RT equilibrium flow

quartz transducers

GS

transducers

quartz transducers

piezoelectric crystals

are made up of the fundamental subparticles

called quarks.

models

. quark models

GS

fluid dynamics

steady flow

nonequilibrium flow

steady state creep

## quaternary alloys

uniform flow

quasi-stellar radio sources

USE quasars

#### quaternary alloys

GS alloys

quaternary alloys

RT alloying

## Quaternary period

(added May 2001)

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.

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

# RT ∞ quenching

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

extinguishing

quenching (atomic physics) quenching (cooling)

rapid quenching (metallurgy)

## quenching (atomic physics)

DEF 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.

GS gyration

. precession

quenching (atomic physics)

angular momentum laser cooling

magnetic moments

particle spin

∞ physics ∞ quenching

## quenching (cooling)

DEF Rapid cooling as in metallurgy. Used for flame quenching.

HE flame quenching GS

cooling

RT

## . 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.

languages

. command languages

# . query languages

human-computer interface information retrieval

#### Questol aircraft

(added December 1990)

(EXPERIMENTAL STOL TRANSPORT RESEARCH AIRPLANE)

UF experimental STOL transport rsch 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

∞ theories

## quiet engine program

programs

NASA programs

quiet engine program

RT aircraft engines engine noise jet 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

bases (chemical)

. quinoline

nitrogen compounds

. quinoline

organic compounds . quinoline

alkaloids

drugs

pyridines

## quinones

(added November 1992)

benzoquinone UF

chinone

GS organic compounds

quinones

ketones

## quinoxalines

RT

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 polymerization RT

quotients dividing (mathematics) RT

(added August 2007) quantum well infrared photodetectors

# R

	nae Borealis stars		∞ storage		display devices
UF GS	RCB stars celestial bodies		supports		distance measuring equipment
do	. stars	racks (	nears)		electromagnetic radiation 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
RT	R Coronae Borealis stars carbon stars	rooon h	anagana		night flights (aircraft) pulse compression
111	cool stars	use	reacons radar beacons		radar detection
	dust	USL	ladai beacons		scatterometers
	stellar envelopes	radant			
	stellar mass ejection	GS	antennas		bsorbers
R5D air	oraft		. directional antennas	GS	absorbers (materials) . radar absorbers
	C-54 aircraft		radar antennas		. antiradar coatings
002			radant	RT	countermeasures
R7V aircraft			radar equipment . radar antennas		electromagnetic absorption
USE	C-121 aircraft		radant		microwave absorption
RA-28	engine	RT	radar filters		stealth technology
GS			radomes	radar a	ltimeters
	. air breathing engines		slot antennas	USE	radio altimeters
	gas turbine engines		waveguide antennas		
	jet engines	radar			ntennas
	turbojet engines RA-28 engine		ed January 1991)	GS	antennas . 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 ce. The electronic equipment or appara-		. radant
	. turbine engines		ed to generate, transmit, receive, and	RT	aircraft antennas diplexers
	gas turbine engines 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	animals	GS	radar . airborne radar		lens antennas
do	. vertebrates		airborne surveillance radar		microwave antennas parabolic antennas
	mammals		. coherent radar		radomes
	rodents		. continuous wave radar		reflector antennas
	rabbits		. Doppler radar		Schwarzschild antennas
Doooh	coefficient		multistatic radar		sidelobe reduction
RT	angular momentum		pulse Doppler radar monopulse radar		slot antennas
	coefficients		Shuttle Imaging Radar		steerable antennas
	coupling		. ground penetrating radar	radar a	pproach control
	quantum mechanics		. imaging radar	UF	
	transformations (mathematics)		Shuttle Imaging Radar	GS	approach control
race fa	ctore		. incoherent scatter radar		radar approach control
RT	anthropology		EISCAT radar system (Europe) . infrared radar		ground based control . air traffic control
	culture (social sciences)		. landing radar		radar approach control
	ethnic factors		. meteorological radar		traffic control
	human beings		. moving target indicators		. air traffic control
	human performance		. multispectral radar		. radar approach control
	races (anthropology) social factors		optical radar     differential absorption lidar	RT	airborne radar approach
	sociology		. pulse radar		aircraft guidance approach indicators
0	∘ variable		pulse Doppler radar	c	∞ control
			monopulse radar		instrument landing systems
	anthropology)		Shuttle Imaging Radar		landing aids
RT	American Indians anthropology		. radar measurement		landing instruments
	culture (social sciences)		. range and range rate tracking . satellite-borne radar		landing radar
	human beings		. search radar		radarscopes surveillance radar
	minorities		over-the-horizon radar		sui veillarice radai
	race factors		. secondary radar		stronomy
	also (martiala accalaratara)		. space based radar		The study of celestial bodies within the
	cks (particle accelerators) ∘ accelerators		Shuttle Imaging Radar		stem by means of radiation originating
111 ~	electromagnets		surveillance radar     airborne surveillance radar	on Ear	th but reflected from the body unde
	magnetic fields		Cobra Dane (radar)	GS	astronomy
	particle acceleration		multistatic radar	ao	. radar astronomy
	particle accelerators		. synthetic aperture radar	RT	radio astronomy
	particle trajectories		Shuttle Imaging Radar		
racks			side-looking radar		ttenuation
SN	(USE OF A MORE SPECIFIC TERM IS		. tracking radar Cobra Dane (radar)	GS	attenuation . wave attenuation
	RECOMMENDEDCONSULT THE TERMS 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
	frames) ∘ racks		cancellation circuits circumlunar communication		radio attenuation sidelobe reduction
	∘ racks ∘ shelves		collision avoidance		signal transmission

transmission wave propagation

### radar beacons

DEF Beacons transmitting characteristic 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  $\infty$  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.

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

GS imagery

radar imagery 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

GS navigation . 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

### radar range

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

### 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.

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

radar scanning
DEF The action or process of moving or directing a searching radar beam.

scanning GS

radar scanning conical scanning digital 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

GS programs radar target scatter site program

. radar targets

radar target scatter site program

radar detection radar scattering

### radar targets

DEF 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 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

Canadian spacecraft GS

### Radarsat

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

GS fluid flow . 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 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.

GS 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

783

radiancy radiation belts solar heating (EMISSION RATE PER UNIT AREA OF RADIATION) SN radiation chemistry radiant intensity radiation counters The rate of radiant energy emission USE radiant flux density radiation damage from a unit area of a source in all the radial radiation detectors directions of the overspreading hemisphere. radiation distribution GS rates (per time) (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN radiation dosage . flux density radiation effects . . radiant flux density radiation hardening . . radiancy DEF The process by which energy is emitelectron flux density ted or transferred in the form of photons or radiation hazards illuminance electromagnetic waves. Used for radiant energy radiation injuries luminous intensity and radiation emission. radiation laws neutron flux density radiant energy radiation measurement particle flux density radiation emission radiation measuring instruments proton flux density alpha particles Radiation Meteoroid spacecraft solar flux density antenna radiation patterns radiation pressure artificial radiation belts radiation protection atmospheric radiation radiant cooling radiation pyrometers background noise GS cooling radiation shielding background radiation radiant cooling base heating beams (radiation) black body radiation radiation sickness radiative heat transfer radiation sources surface cooling radiation spectra radiation therapy Cerenkov radiation circumsolar radiation radiant energy radiation tolerance USE radiation radiation transport coherent acoustic radiation radiation trapping coherent electromagnetic radiation radiative transfer radioactivity radiant flux density (DYNES/CM-SEC AS DISTINGUISHED FROM RADIATION PRESSURE--DYNES/SQ CM) The rate of radiant energy emission coherent radiation continuous radiation radiology corpuscular radiation reflected waves cosmic rays relic radiation from a unit area of a source in all the radial cyclotron radiation resonance fluorescence directions of the overspreading hemisphere. diffuse radiation Used for power density (electromagnetic), radiself absorption Earth radiation budget experiment ant intensity, and radiation intensity. short wave radiation elastic waves power density (electromagnetic) silicon radiation detectors electromagnetic noise radiant intensity sky radiation electromagnetic radiation solar corpuscular radiation radiation intensity electron radiation rates (per time) solar radiation emission Solar Radiation 1 satellite . flux density extraterrestrial radiation .. radiant flux density Solar Radiation 3 satellite extreme ultraviolet radiation solar radiation shielding . . . irradiance . . . . illuminance solar wind far infrared radiation sound waves . solar constant far ultraviolet radiation spectral emission . . . lumens flux (rate) standing waves . . . luminous intensity flux density stellar radiation . . . . illuminance galactic radiation Stokes law of radiation . . . . luminance gamma rays stratosphere radiation . . particle flux density geophysics synchrotron radiation . . . . electron flux density gravitational waves temperature effects . . . neutron flux density harmonic radiation terrestrial radiation . . . . proton flux density heating thermal radiation . . . radiance incident radiation TRAP program . . . radiancy infrared radiation tropospheric radiation ... solar flux density inner radiation belt ultrasonic radiation . solar constant interstellar radiation ultraviolet radiation BL Lacertae objects ion cyclotron radiation Volterra equations brightness ionizing radiation x ray sources brightness distribution irradiation Kirchhoff law of radiation light (visible radiation) CERES (experiment) dosimeters emissivity long wave radiation radiation absorption emittance longitudinal waves energy absorption far fields lunar radiation . radiation absorption flux (rate) Lyman alpha radiation . . electromagnetic absorption gamma ray bursts 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 nucleon potential . . molecular absorption scattering functions outer radiation belt . self absorption solar reflectors RT ∞ absorption sound intensity photosynthetically active radiation absorption cross sections view effects plane waves atmospheric attenuation planetary radiation gamma ray absorptiometry plasma radiation Golay detector cells radiant heating gray gas interstellar extinction radiation heating polarized electromagnetic radiation GS 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 radiative heat transfer radiant heating radiation radiation chemistry

radiation absorption

radiative transfer

stopping power

### Radiation and Meteoroid satellite

GS artificial satellites

- . geophysical satellites
- Radiation and Meteoroid satellite

### radiation belts

Envelopes of charged particles trapped in the magnetic field of a spatial body. 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

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

 $\infty$  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

∞ radiation 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 damage
- . 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

reactor safety

o radiation radioactive contaminants radioactive materials radioactive wastes radioactivity

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 effects ... infrared spectrophotometers . . radiation shielding 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 GS measuring instruments ... Cerenkov counters . . 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 circumsolar telescopes . . . particle 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)  $\infty$  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 measuring instruments . radiation shielding 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 . . electron pressure ... ultraviolet spectrometers 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 . . . . infrared radiometers point sources ... 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-DFF . amino radical . formyl ions interstellar masers netic field. ion sources RT argon . free radicals light sources Earth magnetosphere . . hydroxyl radicals pulsars excitation . methylidyne . ∞ radiation metastable state radio sources (astronomy) . vanadyl radical plasma physics radioactive materials . vinyl radical ∞ radiation RT ∞ roots sound generators ∞ sources radiative heat transfer radii spectral counterparts (astronomy) GS radiative transfer UF radius x rav 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 . . . gamma ray spectra infrared reflection diameters 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 DEF 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 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 aircraft instruments . . . microwave spectra . electron recombination ... Raman spectra . 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 antennas deionization GS . radio antennas . . . x ray spectra liahtnina . . microwave antennas . emission spectra astronomical spectroscopy radiative transfer Cosmic Background Explorer satellite . . . lens antennas GS radiative transfer energy spectra . . . rectennas radiative heat transfer mass spectra atmospheric correction spacetennas noise spectra radio equipment cosmic rays plasma spectra electromagnetic radiation energy transfer extraterrestrial radiation . radio antennas ∞ radiation . . microwave antennas horn antennas . . . lens antennas galactic radiation radiation therapy . . . rectennas heat transfer radiotherapy . . spacetennas therapy . radiation therapy heat transmission GS aircraft antennas interstellar radiation backfire antennas near infrared radiation cancer directional antennas planetary atmospheres medical science omnidirectional antennas polarized electromagnetic radiation pathology reception diversity radiant heating ∞ radiation 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 DEF 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) astronomy . radio astronomy GS 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 absorption. or oil, not necessarily by radiation only.

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 extragalactic radio sources airport beacons 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 pulsars reentry communication 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 telemetry SAS-2 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 DEF Remote control of a pilotless airplane, rocket, or spacecraft by means of radio signals that activate controlling devices.

GS remote control

. radio control . . type 5 bursts 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 radio attenuation . . . . . type 3 bursts USE radar radio signal attenuation . . . . type 4 bursts . . . type 5 bursts GS attenuation radio direction finders . wave attenuation emission Radio receiving sets, together with associated equipment, used to determine the direction from which a radio signal is transmitted. . radio emission . radio attenuation atmospheric attenuation . . radio bursts 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 programs . . . . type 4 bursts 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 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 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 . . . . self calibrating omnirange communication equipment 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 ground-air-ground communication interplanetary communication ... self calibrating omnirange radio emission

interstellar communication

land mobile satellite service

GS electromagnetic radiation

. . radio emission

. radio waves

transmitters

. radio transmitters

... radio beacons

	ON				
	CN emission		tunable filters		signal fading
	hydroxyl emission radio bursts	radio f	requencies	radio fre	equency ion thrustor engines
	solar radio bursts		Frequencies at which coherent electro-		RIT engines
	type 2 bursts	magne	tic radiation of energy is useful for com-		
	type 3 bursts		tions purposes.		equency noise
	type 4 bursts	GS	frequencies	USE	electromagnetic noise
	type 5 bursts solar radio emission		. radio frequencies extremely low frequencies	radio fre	equency radiation
	solar radio emission		high frequencies	USE	radio waves
	type 2 bursts		intermediate frequencies		
	type 3 bursts		low frequencies		equency shielding
	type 4 bursts		very low frequencies	GS	shielding . electromagnetic shielding
	type 5 bursts		microwave frequencies		radio frequency shielding
	emission . radio emission		C band extremely high frequencies	RT	radiation shielding
	CN emission		P band		spacecraft shielding
	hydroxyl emission		superhigh frequencies	nadia a	alaviaa
	radio bursts		. ultrahigh frequencies	radio g GS	celestial bodies
	solar radio bursts		P band	ao	. galaxies
	type 2 bursts		very high frequencies P band		active galaxies
	type 3 bursts	RT	audio frequencies		radio galaxies
	type 4 bursts type 5 bursts		carrier frequencies		. radio sources (astronomy)
	solar radio emission		radii		extragalactic radio sources
	solar radio bursts			RT	radio galaxies active galactic nuclei
	type 2 bursts		requency discharge	п	blazars
	type 3 bursts	GS	electric current		disk galaxies
	type 4 bursts		. electric discharges radio frequency discharge		Maffei galaxies
RT	type 5 bursts	RT	electrodeless discharges		quasars
nı	extragalactic radio sources extraterrestrial radio waves	• • • • • • • • • • • • • • • • • • • •	electron emission	and a le	
	quasars		ring discharge	radio h	Loci or points at which direct rays from
	radio jets (astronomy)				transmitter become tangential to the
			requency heating	Earth's	
radio e	quipment	GS	heating		horizon
GS	radio equipment	RT	. radio frequency heating induction heating		. radio horizons
	. radio antennas	• • • • • • • • • • • • • • • • • • • •	plasma heating	RT	horizon scanners
	microwave antennas		VASIMR (propulsion system)	radio in	terference
	horn antennas lens antennas				radio frequency interference
	rectennas		requency impedance probes		
	spacetennas	GS	measuring instruments . impedance probes		terferometers
	radio filters		radio frequency impedance		Interferometers operating at radio fre-
	. radio receivers		probes	•	s. Radio interferometers are used in
	superheterodyne receivers	RT	impedance measurement		stronomy and in satellite tracking. measuring instruments
	transmitter receivers		ion probes	ao	. interferometers
	whistler recorders . radio telescopes		microwave probes		radio interferometers
	kilometer wave orbiting telescope		plasma probes	RT	astrophysics
	Very Large Array (VLA)	radio f	requency interference		Orion (radio interferometry network)
	Very Long Baseline Array (VLBA)		Degredation of the reception of a		very long base interferometry
	. radio transmitters		signal caused by radio frequency distur-	radio ie	ets (astronomy)
	radio beacons omnidirectional radio ranges	bance.			Jets of energetic particles occurring in
	self calibrating omnirange	UF	radio interference		laxies and quasars usually emitted from
	radiometeorographs	GS	electromagnetic interference		lear (active) region of the extragalactic
	radiosondes		. radio frequency interference blackout (propagation)	radio so	
	ionosondes		polar radio blackout	GS	celestial bodies . radio sources (astronomy)
	rawinsondes		chirp		extragalactic radio sources
	radiotelephones		chirp signals		radio jets (astronomy)
	sonobuoys transmitter receivers		electromagnetic noise		particles
	. reception diversity		atmospherics		. charged particles
	. spacecraft antennas		ionospherics dawn chorus		plasma jets
	. transponders		hiss	RT	radio jets (astronomy) astrophysics
	. very high frequency radio equipment		sudden enhancement of	n i	energetic particles
RT	airborne equipment		atmospherics		extraterrestrial radiation
	antennas broadcasting		whistlers		extraterrestrial radio waves
	communication equipment		cosmic noise		galactic nuclei
	crystal filters		ionospheric noise		galactic radio waves
	cylindrical antennas		whistlers shot noise		quasars
	jammers		white noise		radio astronomy radio emission
	near fields		thermal noise		Tadio ettiissioti
	onboard equipment		cochannel interference	radio m	eteorology
	radar equipment		ionospheric cross modulation	GS	meteorology
radia #	Itare	RT	clutter	DT	. radio meteorology
radio fi GS	electromagnetic wave filters		cross coupling electromagnetic compatibility	RT	atmospherics meteorological radar
30	. electric filters		electronic countermeasures		radiosondes
	. radio filters		electronic warfare		
	radio equipment		extraterrestrial radio waves	radio m	
	. radio filters		∞ interference	DEF	Meteors which have been detected by
RT	crystal filters filters		interference grating		ection of radio signals from the meteor relatively high ion density (ion columns).
۰	inters interference grating		interference immunity jamming	GS	celestial bodies
	microwave filters		noise generators	40	. meteoroids
	radar filters		noise storms		radio meteors

interference grating interference immunity jamming noise generators noise storms

RT crystal filters

∞ filters

interference grating
microwave filters
radar filters

. . 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 . radio navigation data links galaxies . . 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 tuners DEF Frequencies of electromagnetic radiation usable for radio communication. aircraft guidance all-weather air navigation radio reception GS spectra signal reception . radiation spectra astronavigation GS 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) radio reflection homing devices inertial navigation radio spectroscopy USE radio echoes GS spectroscopy spectroscopy
. radio spectroscopy
astronomical spectroscopy
ultraviolet spectra
ultraviolet spectroscopy interplanetary navigation radio relay systems navigation aids omnidirectional radio ranges GS telecommunication . radio communication positioning . . radio relay systems radar navigation x ray spectroscopy ... code division multiple access satellite navigation systems . . time division multiple access radio stars solar compasses communication equipment celestial bodies space navigation GS communication satellites surface navigation . radio sources (astronomy) data links . . radio stars Defense Communications Satellite . . . pulsars radio observation . stars GS observation 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 ∞ probes . telemetry 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 . radio range . . . . pulse frequency modulation 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 multipath transmission antennas . . radiotelephones 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 traveling waves tropospheric waves . . radiosondes 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 wave dispersion . . radio transmission atmospheric composition . . . double sideband transmission fallout radio waves . . . ionospheric propagation nuclear radiation . . . 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 . . . short wave radio transmission . . . single sideband transmission radio frequency radiation USE radioactive age determination GS 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 . . . . type 2 bursts . spread spectrum transmission GS decay ... transequatorial propagation . type 3 bursts . radioactive decay . . . . type 4 bursts . . transhorizon radio propagation . . alpha decay antipodes . . . . . type 5 bursts . . neutron emission atmospheric attenuation . . . cosmic microwave background nuclear reactions broadcasting code division multiplexing radiation . radioactive decay .. long wave radiation . . alpha decay companding .. radio emission . . neutron emission data transmission . CN emission emission Earth-ionosphere waveguide hydroxyl emission gamma ray beams ... radio bursts gamma rays F region . . . . solar radio bursts half life frequency reuse 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 type 2 bursts radioactivity radar transmission . . . . . 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

UF radioactive elements

radionuclides

nuclides

GS

radioactive nuclides

chemical elements

	isotopes	nuclear fission	radioactive isotopes
	radioactive isotopes	nuclear radiation	
	astatine isotopes	radiation hazards	radiochemical separation
	beryllium 7	radiation sources	GS radiochemistry
	beryllium 9	∞ radioactive debris	radiochemical separation
	beryllium 10	radioactivity	RT chemical reactions
	carbon 14	radiobiology	quantitative analysis
	cerium 137	radiochemistry	∞ separation
	cerium 144	uranium plasmas	
	cesium 134		radiochemistry
	cesium 137	radioactive nuclides	UF reactor chemistry
	cesium 144	USE radioactive isotopes	GS radiochemistry
	cobalt 58	•	. radiochemical separation
	cobalt 60	radioactive wastes	RT chemical analysis
	copper isotopes	UF nuclear wastes	∞ chemistry
	11	GS wastes	ionizing radiation
	gold 198	. radioactive wastes	isotopic labeling
	indium isotopes	RT contamination	
	iodine 125		nuclear chemistry
	iodine 131	decommissioning	nuclear radiation
	iodine 132	environment pollution	nuclear research
	iron 59	environment protection	radioactive age determination
	krypton 85	environmental surveys	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	radiogenic materials
	polonium 210	poisoning (reaction inhibition)	RT nuclear reactions
		pollution	radioactive age determination
	potassium 38	radiation hazards	∞ radioactive debris
	potassium 40		
	rubidium 86	∞ radioactive debris	radioactive decay
	sodium 22	radiochemistry	radioactive wastes
	sodium 24	radiogenic materials	transmutation
	strontium 85	soil pollution	
	strontium 88	solid wastes	radiogoniometers
	strontium 89	waste disposal	GS measuring instruments
	strontium 90	·	. goniometers
	transuranium elements	radioactivity	radiogoniometers
	americium	DEF Spontaneous disintegration of atomic	RT radio direction finders
		nuclei with emission of corpuscular or electro-	
	americium isotopes	magnetic radiations. The number of spontane-	radiography
	americium 241	ous disintegrations per unit mass and per unit	UF cinefluorography
	berkelium		cineradiography
	californium	time of a given unstable (radioactive) element,	
	californium isotopes	usually measured in curies.	GS imagery
	curium	RT ∞ activity	radiography
	curium isotopes	alpha particles	angiography
	curium 242	emission	autoradiography
	curium 244	fallout	neutron radiography
	einsteinium	fission products	tomography
	fermium	gamma rays	computer aided tomography
		geochemistry	urography
	lawrencium	geophysics	RT Bragg angle
	mendelevium	half life	crystallography
	neptunium	ionizing radiation	∞ flash
	neptunium isotopes	9	
	nobelium	nuclear radiation	irradiation
	plutonium	particle production	lixiscopes
	plutonium isotopes	post-blast nuclear radiation	∞ materials tests
	plutonium 238	∞ radiation	metallography
	plutonium 239	radiation hazards	nondestructive tests
	plutonium 240	radioactive decay	photography
	plutonium 241	radioactive materials	pneumography
	plutonium 244	radiochemistry	radiology
	sergenium	,	x ray analysis
	3	radiobiology	x ray apparatus
	tritium	DEF The study of the effects produced on	x ray astronomy
	uranium 232	living organisms by radiation.	x ray diffraction
	uranium 233	GS medical science	x ray fluorescence
	uranium 238	. nuclear medicine	x ray imagery
	xenon 133		
	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	radioimmunoassay
	radiocardiography	irradiation	DEF A medical diagnostic procedure for the
		∞ medicine	components (hormones and immunoglobuli
	radioisotope batteries	nuclear radiation	primarily) as well as pharmaceuticals in the
	radioisotope heat sources	radioactive materials	blood. The RIA is based on the antigen antibo
	radiophosphors	radiochemistry	reactions.
	rhenium isotopes		
		radioimmunoassay	•
ma all con	tive meterials	weeling and in the second	. radioimmunoassay
	tive materials	radiocardiography	RT antigens
RT	actinide series	DEF 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	·,
	isotopes	radiocardiography	radioisotope batteries
-	∘ materials	RT cardiology	UF atomic batteries
0	· materials	i i cardiology	OI atomic batteries

GS	electric generators	quantum well infrared		rawinsondes
	. direct power generators	photodetectors		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	1	radio telemetry
	SNAP 17	MISR (radiometry)		radiometeorographs
	SNAP 19	MODIS (radiometry)	ı	ROBIN balloons
	SNAP 21	RT bolometers		satellite sounding
	SNAP 23	forest fire detection		sounding rockets
	SNAP 27	horizon scanners		· ·
	SNAP 29	infrared photography	radiotele	phones
RT	electric batteries	infrared tracking	GS i	radio equipment
	fission electric cells	Knudsen gages		radio transmitters
	nuclear auxiliary power units	photometers		. radiotelephones
	radioactive isotopes	pyranometers	1	receivers
	radioisotope heat sources	radiometric resolution		radiotelephones
	thermionic converters	spectrophotometers	t	telecommunication
	thermoelectric generators	thermistors		radiotelephones
		ultraviolet detectors	t	telephones
	otope heat sources	x ray detectors		radiotelephones
	ed December 2002)		t	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
	thermoelectric generators.	of an image. Used for radiometric rectification.	RT (	echo suppressors
UF	General Purpose Heat Sources	UF radiometric rectification	1	radio communication
	GPHS (nucleonics)	RT image enhancement	1	telephony
GS	heat sources	infrared radiometers	,	voice communication
	radioisotope heat sources	multispectral band scanners		
RT	radioactive isotopes	vegetative index	radiothera	ару
	radioisotope batteries		USE I	radiation therapy
	thermoelectric power generation	radiometric rectification		• •
		USE radiometric correction	radium	
radiolo			GS (	chemical elements
GS	medical science	radiometric resolution		actinide series
	. radiology	DEF The sensitivity of the sensor to distin-		. radium
RT	aerospace medicine	guish between gray levels.		radium isotopes
	∞ medicine	GS resolution		radium 226
0	radiation	. radiometric resolution	ı	metals
	radiography	RT multispectral band scanners		actinide series
	x ray analysis	radiometers		. radium
	x rays	remote sensors		radium isotopes
		spectral resolution		radium 226
rodioly		•		radium 226
radioly		•	•	ladium 220
radioly: GS	chemical reactions	radionuclides	radium 2	
-	chemical reactions . photochemical reactions	•	radium 2	
-	chemical reactions . photochemical reactions . radiolysis	radionuclides USE radioactive isotopes	radium 2	26
-	chemical reactions . photochemical reactions . radiolysis decomposition	radionuclides USE radioactive isotopes radiopathology	radium 2 GS	26 chemical elements
-	chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis	radionuclides USE radioactive isotopes radiopathology GS medical science	radium 2 GS (	26 chemical elements actinide series
-	chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation	radionuclides USE radioactive isotopes  radiopathology GS medical science . radiopathology	radium 2 GS (	26 chemical elements actinide series aradium
-	chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis	radionuclides USE radioactive isotopes  radiopathology GS medical science . radiopathology RT antiradiation drugs	radium 2 GS (	26 chemical elements radium radium isotopes
-	chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiolysis radiation chemistry	radionuclides USE radioactive isotopes  radiopathology GS medical science	radium 2 GS (	chemical elements actinide seriesradiumradium isotopesradium 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	radium 2 GS (	26 chemical elements actinide series radium radium isotopes radium 226 nuclides risotopes radium isotopes
-	chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects	radionuclides USE radioactive isotopes  radiopathology GS medical science	radium 2 GS (	chemical elements actinide series . radium . radium isotopes radium 226 . nuclides . isotopes
GS	chemical reactions photochemical reactions radiolysis decomposition radiolysis dissociation radiolysis radiation chemistry radiolysis radiation effects radiolysis	radionuclides USE radioactive isotopes  radiopathology GS medical science	radium 2 GS (	26 chemical elements actinide series radium radium isotopes radium 226 nuclides risotopes radium isotopes
-	chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects	radionuclides USE radioactive isotopes  radiopathology GS medical science	radium 2 GS (	chemical elements actinide seriesradiumradium isotopesradium 226 nuclidesisotopesradium isotopesradium 226 metalsctinide series
GS	chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis	radionuclides USE radioactive isotopes  radiopathology GS medical science	radium 2 GS (	chemical elements actinide series aradium aradium isotopes aradium 226 anuclides aradium isotopes aradium isotopes aradium isotopes aradium 226 metals actinide series aradium
GS RT radiom	chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis	radionuclides USE radioactive isotopes  radiopathology GS medical science	radium 2	26 chemical elements actinide seriesradiumradium isotopesradium 226 nuclidesisotopesradium isotopesradium 226 metals actinide seriesradiumradium
GS	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	radium 2	chemical elements actinide series aradium aradium isotopes aradium 226 anuclides aradium isotopes aradium isotopes aradium isotopes aradium 226 metals actinide series aradium
GS RT radiom	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	radium 2 GS (	chemical elements actinide seriesradiumradium isotopesradium 226ucilidesisotopesradium isotopesradium isotopesradium 226 metals actinide seriesradiumradiumradium isotopes
GS RT radiom	chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis eteorographs measuring instruments . meteorological instruments . radiometeorographs	radionuclides USE radioactive isotopes  radiopathology GS medical science	radium 2 GS (	chemical elements actinide series actinide series actinide series actinide series actinide series actinide series actinides actinide series
GS RT radiom	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	radium 2 GS (	chemical elements actinide series actinide series actinide series actinide series actinides actinides actinides actinides actinides actinide series actinides actini
GS RT radiom	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	radium 2 GS (	26 chemical elements actinide seriesradiumradium isotopesradium 226 nuclidesradium isotopesradium isotopesradium isotopesradium 226 metals actinide seriesradiumradium 226 sotopes chemical elements actinide series
GS RT radiom	chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis eteorographs measuring instruments . radiometeorographs radio equipment . radio transmitters	radionuclides USE radioactive isotopes  radiopathology GS medical science	radium 2 GS (	chemical elements actinide series actinide series actinide series actinides actinides actinides actinides actinide series
GS RT radiom	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	radium 2 GS (	chemical elements actinide series actinide series actinide series actinide series actinide series actinides actinides actinide series
GS RT radiom	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	radium 2 GS (	cohemical elements actinide series actinide series actinide series actinide series actinides actinides actinides actinides actinide series
GS RT radiom	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 recording instruments . radiometeorographs recording instruments . radiometeorographs	radionuclides USE radioactive isotopes  radiopathology GS medical science	radium 2 GS (	cohemical elements actinide series actinide series actinide series actinide series actinides actinides actinides actinides actinide series actinides
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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 radiometeorographs radio equipment radio transmitters radiometeorographs recording instruments radiometeorographs ransmitters radiometeorographs radiot ransmitters radiometeorographs resultiers radiometeorographs radiot telemetry radiosondes eters Instruments for detecting and, usually, ng radiant energy. measuring instruments radiometers radiometers Dicke radiometers Infrared detectors	radionuclides  USE radioactive isotopes  radiopathology GS medical science	radium 2 GS (	cohemical elements cactinide series cardium cradium isotopes cradium 226 cuclides cisotopes cradium 226 metals cactinide series cradium cradium isotopes cradium 226 cradium 226 cradium 226 cradium 226 cradium isotopes cradium isotopes cradium 226 cradium 226 cradium 226 cradium 226 cradium isotopes cradium 226 cradium isotopes cradium 226 cradium isotopes
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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 radiometeorographs radio equipment radio transmitters 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 radiometers radiometers radiometers rinfrared detectors rinfrared radiometers resolution Radiometer	radionuclides  USE radioactive isotopes  radiopathology GS medical science	radium 2 GS (  radium is GS (  radius USE (  radome is GS (  RT (	chemical elements cactinide series cardium cradium isotopes cradium 226 nuclides cisotopes cradium isotopes cradium 226 metals cactinide series cradium cradium isotopes cradium cradium isotopes cradium cradium isotopes cradium cradium isotopes cradium cradium 226 sotopes chemical elements cactinide series cradium cradium cradium isotopes cradium cradium isotopes cradium cradium 226 nuclides cisotopes cradium 226 metals cactinide series cradium cradium isotopes cradium cradium isotopes cradium cradium 226 metals cactinide series cradium cradium isotopes cradii materials dielectrics cradome materials electromagnetic wave transmission materials

	transparence		ld-producing rails, and a movable con-		rain
radome	e		armature. ∘ accelerators	raindro	ns
DEF	Dielectric housings for antennas.	111 %	hypervelocity guns	GS	particles
(From R	Adar DOME. Pronounced ray-domes.)		hypervelocity launchers		. drops (liquids)
GS	housings		mass drivers	DT	raindrops
	. radomes shells (structural forms)		nuclear fusion	RT	drop size falling spheres
	. domes (structural forms)		particle accelerators spacecraft launching		rain
	radomes		Spaceorate launoring		rainmaking
RT	inflatable structures	railroad	humping tests		
	protuberances	RT	cargo	rainmal	•
	radant radar antennas		impact acceleration	GS	weather modification rainmaking
	radar equipment		materials handling shock tests	RT	climatology
	radome materials	0<	tests		cloud seeding
					precipitation (meteorology)
radon	ale annice I ale an early	railroad	S		raindrops
GS	chemical elements . rare gases	USE	rail transportation		water resources
	. radon	rails		rainsto	rms
	radon isotopes	RT	rail transportation	GS	storms
	gases		rapid transit systems		. storms (meteorology)
	. rare gases		surface vehicles		rainstorms thunderstorms
	radon radon isotopes			RT	acid rain
	radori isotopes	rain			flood control
radon is	sotopes	GS	precipitation (meteorology) . rain		flood predictions
UF	thoron		acid rain		hailstorms
GS	chemical elements	RT	aquifers		precipitation (meteorology) rain
	. nuclides isotopes		cloud seeding	~	showers
	radon isotopes		condensation nuclei		storm damage
	. rare gases		flood predictions hydrology		storm enhancement
	radon		hydrology models		storm suppression
	radon isotopes		limnology		tornadoes
	gases		precipitation measurement	∞ rakes	
	. rare gases		rainbows	SN	(USE OF A MORE SPECIFIC TERM IS
	radon isotopes		raindrops rainstorms		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)
_	-	~	showers	RT	pressure sensors
_	satellite		thunderstorms		slopes
	A Soviet communications satellite in onary orbit for radio and TV transmis-		TRMM satellite	∞ ram	
sion.	onary orbit for radio and TV transmis-		watersheds	∞ rain SN	(USE OF A MORE SPECIFIC TERM IS
GS	artificial satellites		-1		RECOMMENDEDCONSULT THE TERMS
	. communication satellites	rain ero	The wearing away of the land by rain.	RT	LISTED BELOW) antiradar coatings
	. Raduga satellite	GS	erosion		rams (presses)
	. Soviet satellites Raduga satellite		. rain erosion		rams (pumps)
	nauuga sateilite	RT	landslides		celerators
RAE 1			mud		ed July 1994)
USE	Explorer 49 satellite		sands soil erosion		ramjet-in-tube accelerators
DAFO			SOII ETOSIOTI		accelerators
RAE 2 USE	Explorer 49 satellite	rain for	ests		detonation waves
OOL	Explorer 45 Satellite	GS	resources		hypervelocity guns
RAE B			. Earth resources		hypervelocity launchers ramjet engines
USE	Explorer 49 satellite		forests		ramjet engines
DAE 1		RT	rain forests canopies (vegetation)	RAM B	launch vehicle
RAE-1 USE	Explorer 38 satellite	• • • • • • • • • • • • • • • • • • • •	geobotany	GS	launch vehicles
OOL	Explorer of satellite		plants (botany)		. RAM B launch vehicle
	Logistics Module (ISS)	~	showers		rocket vehicles . multistage rocket vehicles
,	ed April 2005)		tropical regions vegetation		RAM B launch vehicle
USE	Multi-Purpose Logistics Modules		vegetation	RT	solid propellant rocket engines
rafts		rain gag	ges		TX-354 engine
GS	rafts	UF	pluviographs	rom offe	not (hydrodynamiaa)
	. life rafts	GS	measuring instruments	USE	ect (hydrodynamics) hydrodynamic ram effect
RT	floats		. meteorological instruments	002	nyaroaynamio ram onoot
	lifeboats	RT	rain gages precipitation measurement	RAM pr	
	survival equipment	П	precipitation measurement	USE	Radio Attenuation Measurement
rail tran	sportation	rain im	pact damage		project
UF	railroads	GS	damage	Raman	effect
GS	transportation		. impact damage	USE	Raman spectra
DT	. rail transportation	RT	rain impact damage arroyos	_	·
RT	automated guideway transit vehicles automated transit vehicles	ΠI	erosion	Raman	
	locomotives		soil erosion	GS	stimulated emission devices . lasers
	magnetic levitation vehicles		water erosion		Raman lasers
	marine transportation				
	rails	rainbov			scattering
	rapid transit systems surface vehicles	GS	distribution (property) . radiation distribution	USE	Raman spectra
	urban transportation		diffraction patterns	Raman	spectra
	· · · · · · · · · · · · · · · · · · ·		rainbows	DEF	Spectra of the modified frequencies
	accelerators	RT	halos		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 . ramjet missiles scattering . 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 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 GS functions (mathematics) 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 . 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 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 background noise ∞ ramps 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 noise generators hammers conditions. Often called ramjets. Used for noise spectra platens athodyds. plungers probability theory UF athodyds pseudonoise ∞ ram GS engines signal to noise ratios . air breathing engines . . gas turbine engines stochastic processes rams (pumps) GS pumps white noise ... jet engines rams (pumps) . . . ramjet engines random numbers plungers . . . . integral rocket ramjets DEF 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 rare gases random positioning machines . . . 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 intermittency . . . jet engines The process of obtaining data from, or 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 input/output routines engines random sampling

random access memory

random processes

VSAT (network)

GS computer components

random access memory

. . . turboramjet engines

dump combustors

Navaho missile

ram accelerators

hydrogen fuels
Meteor 1 rocket vehicle

795

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 RT 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 probability distribution, which specifies the possible together with optical tracking Land providing forage for domestic radar tracking and wild animals, wildlife cover, recreation opradio tracking portunities, and vegetation for watershed prosatellite 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 range errors

SN (EXCLUDES ERRORS IN DISTANCE TRAVELED--LIMITED TO ERRORS IN DISTANCE MEASUREMENT)

DEF Errors in radar range measurement due to the propagation of radio energy through a nonhomogeneous atmosphere. These errors are due to the fact that the velocity of radio wave functions (mathematics) rural areas Shannon-Wiener measure rural land use ∞ statistics ∞ variable Rangemaster aircraft USE G-1 aircraft random vibration 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 . . Ranger lunar probes flutter 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 GS . . Ranger lunar probes 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 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) 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 minima . . lunar probes . . . Ranger lunar probes optimization rangefinding .... Ranger 5 lunar probe quality control ŨF 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 lunar probes		Ranger 7 lunar probe Ranger 8 lunar probe	RAPCO	DN (control)
	Ranger 6 lunar probe		Ranger 9 lunar probe		radar approach control
Dongor	7 lunar proba	DT	Ranger lunar landing vehicles	ranid h	allistics identification
	7 lunar probe lunar spacecraft	RT	Atlas Agena B launch vehicle	GS	identifying
	. lunar probes	Ranger	project		. rapid ballistics identification
	Ranger lunar probes		programs	RT	display devices
	Ranger 7 lunar probe unmanned spacecraft		. NASA programs		imaging techniques laser applications
	. space probes		NASA space programs Ranger project		lasers
	lunar probes		Agena B Ranger Program		measuring instruments
	Ranger lunar probes Ranger 7 lunar probe		. projects		photography scanning
	Nanger / Iunar probe		Ranger project Agena B Ranger Program		stimulated emission
	8 lunar probe		. space programs		stimulated emission devices
GS	lunar spacecraft . lunar probes		NASA space programs	ranid e	ye movement state
	Ranger lunar probes		Ranger project Agena B Ranger Program		desynchronized sleep
	Ranger 8 lunar probe	RT	Agena B rocket vehicle		REMS
	unmanned spacecraft		Agena rocket vehicles	RT	dreams eye movements
	. space probes lunar probes		Atlas launch vehicles lunar photographs		sleep
	Ranger lunar probes		lunar photography		·
	Ranger 8 lunar probe		lunar probes		rototyping
Ranger	9 lunar probe				led November 2001) The fabrication of functional prototypes
	lunar spacecraft		Satellites  Pangar lunar probas		a short turn-around time in order to sup-
	. lunar probes	USE	Ranger lunar probes		odel verification, reduce design-cycle
	Ranger lunar probes Ranger 9 lunar probe	ranges	(facilities)		reduce the overall cost of development. f advanced manufacturing technologies
	unmanned spacecraft	GS	ranges (facilities)		quickly generate three-dimensional ob-
	. space probes		. test ranges ballistic ranges		rectly from computer-based models.
	lunar probes Ranger lunar probes		missile ranges	KI	computer aided design computer aided manufacturing
	Ranger 9 lunar probe		radio beacons		cost reduction
_	-	~	range		fabrication
<b>Ranger</b> GS	block 3 television system communication equipment	ranging			product development prototypes
ao	. spacecraft television		rangefinding		three dimensional models
	Ranger block 3 television				and the footell on A
	system telecommunication	rank tes			uenching (metallurgy) Rapid cooling of molten metals or al-
	. spacecraft television	GS	statistical analysis . statistical tests		achieve maximum uniformity in the crys-
	Ranger block 3 television		rank tests	tal struc	cture. Used for rapid solidification.
	system television systems	RT ∝	tests	UF	rapid solidification
	system television systems . spacecraft television		tests		
	television systems . spacecraft television . Ranger block 3 television	Rankine	tests	UF GS	rapid solidification cooling quenching (cooling) rapid quenching (metallurgy)
RT .	television systems . spacecraft television . Ranger block 3 television system	Rankine DEF ing of he	e cycle An ideal thermodynamic cycle consisteat addition at constant pressure, isen-	UF	rapid solidification cooling . quenching (cooling) . rapid quenching (metallurgy) crystal growth
RT ∘	television systems . spacecraft television . Ranger block 3 television	Rankine DEF ing of he tropic e	e tests  e cycle  An ideal thermodynamic cycle consisteat addition at constant pressure, isen- expansion, heat rejection at constant	UF GS	rapid solidification cooling quenching (cooling) rapid quenching (metallurgy)
Ranger	television systems . spacecraft television . Ranger block 3 television system systems lunar landing vehicles	Rankine DEF ing of he tropic e pressure an ideal	e cycle An ideal thermodynamic cycle consisteat addition at constant pressure, isen-expansion, heat rejection at constant a, and isentropic compression; used as standard for the performance of heat-	UF GS RT	rapid solidification cooling . quenching (cooling) . rapid quenching (metallurgy) crystal growth crystal lattices crystal structure ∞ metallurgy
	television systems . spacecraft television . Ranger block 3 television system systems lunar landing vehicles lunar spacecraft	Rankine DEF ing of he tropic e pressure an ideal engine	e cycle  An ideal thermodynamic cycle consisteat addition at constant pressure, isen-expansion, heat rejection at constant e, and isentropic compression; used as standard for the performance of heat-and heat-pump installations operating	UF GS RT	rapid solidification cooling . quenching (cooling) . rapid quenching (metallurgy) crystal growth crystal lattices crystal structure
Ranger	television systems . spacecraft television . Ranger block 3 television system systems lunar landing vehicles	Rankine DEF ing of he tropic e pressure an ideal engine with a c	e tests  a cycle  An ideal thermodynamic cycle consistent addition at constant pressure, isential separation, heat rejection at constant and isentropic compression; used as standard for the performance of heat-and heat-pump installations operating ondensable vapor as the working fluid,	UF GS RT	rapid solidification cooling . quenching (cooling) rapid quenching (metallurgy) crystal growth crystal lattices crystal structure metallurgy quenching blidification
Ranger	television systems . spacecraft television . Ranger block 3 television system systems  systems lunar landing vehicles lunar spacecraft . lunar probes . Ranger lunar probes Ranger lunar landing vehicles	Rankine DEF ing of he tropic e pressure an ideal engine with a c such as	e cycle  An ideal thermodynamic cycle consisteat addition at constant pressure, isen-expansion, heat rejection at constant e, and isentropic compression; used as standard for the performance of heat-and heat-pump installations operating	UF GS RT	rapid solidification cooling . quenching (cooling) . rapid quenching (metallurgy) crystal growth crystal lattices crystal structure metallurgy quenching colidification rapid quenching (metallurgy)
Ranger	television systems spacecraft television Ranger block 3 television system systems systems lunar landing vehicles lunar spacecraft lunar probes Ranger lunar probes Ranger lunar landing vehicles unmanned spacecraft	Rankine DEF ing of he tropic e pressure an ideal engine with a c such as	e tests  a cycle  An ideal thermodynamic cycle consistent addition at constant pressure, isen-expansion, heat rejection at constant and isentropic compression; used as standard for the performance of heat-and heat-pump installations operating ondensable vapor as the working fluid, a steam power plant.  cycles  . thermodynamic cycles	UF GS RT	rapid solidification cooling . quenching (cooling) rapid quenching (metallurgy) crystal growth crystal lattices crystal structure metallurgy quenching blidification
Ranger	television systems . spacecraft television . Ranger block 3 television system systems  systems lunar landing vehicles lunar spacecraft . lunar probes . Ranger lunar probes Ranger lunar landing vehicles	Rankine DEF ing of he tropic e pressure an ideal engine with a c such as GS	e tests  a cycle  An ideal thermodynamic cycle consistent addition at constant pressure, isential separation, heat rejection at constant a sand isentropic compression; used as standard for the performance of heat-and heat-pump installations operating ondensable vapor as the working fluid, a steam power plant.  cycles  thermodynamic cycles  Rankine cycle	UF GS RT rapid so USE	rapid solidification cooling . quenching (cooling) . rapid quenching (metallurgy) crystal growth crystal lattices crystal structure metallurgy quenching colidification rapid quenching (metallurgy)
Ranger	television systems . spacecraft television . Ranger block 3 television system systems  lunar landing vehicles lunar spacecraft . lunar probes . Ranger lunar probes . Ranger lunar landing vehicles unmanned spacecraft . space probes . lunar probes lunar probes Ranger lunar probes	Rankine DEF ing of he tropic e pressure an ideal engine with a c such as GS	e tests  a cycle  An ideal thermodynamic cycle consistent addition at constant pressure, isen-expansion, heat rejection at constant and isentropic compression; used as standard for the performance of heat-and heat-pump installations operating ondensable vapor as the working fluid, a steam power plant.  cycles  . thermodynamic cycles	UF GS RT rapid so USE rapid to	rapid solidification cooling . quenching (cooling) . rapid quenching (metallurgy) crystal growth crystal lattices crystal structure metallurgy quenching colidification rapid quenching (metallurgy) solidification ransit systems high speed transportation
<b>Ranger</b> GS	television systems . spacecraft television . Ranger block 3 television system systems  lunar landing vehicles lunar spacecraft . lunar probes . Ranger lunar probes . Ranger lunar landing vehicles unmanned spacecraft . space probes . lunar probes . lunar probes . Ranger lunar probes Ranger lunar probes Ranger lunar probes Ranger lunar probes Ranger lunar landing vehicles	Rankine DEF ing of he tropic e pressure an ideal engine with a c such as GS	e tests  a cycle  An ideal thermodynamic cycle consisterat addition at constant pressure, isen-expansion, heat rejection at constant e, and isentropic compression; used as standard for the performance of heat-and heat-pump installations operating ondensable vapor as the working fluid, a steam power plant.  cycles  thermodynamic cycles  Rankine cycle  ASTEC solar turboelectric generator Brayton cycle  Carnot cycle	UF GS RT rapid so USE	rapid solidification cooling . quenching (cooling) rapid quenching (metallurgy) crystal growth crystal lattices crystal structure metallurgy quenching colidification rapid quenching (metallurgy) solidification ransit systems high speed transportation transportation
Ranger GS RT	television systems . spacecraft television . Ranger block 3 television system systems  lunar landing vehicles lunar spacecraft . lunar probes . Ranger lunar probes . Ranger lunar landing vehicles unmanned spacecraft . space probes . lunar probes lunar probes Ranger lunar probes	Rankine DEF ing of he tropic e pressure an ideal engine with a c such as GS	e tests  a cycle  An ideal thermodynamic cycle consisterat addition at constant pressure, isen-expansion, heat rejection at constant e, and isentropic compression; used as standard for the performance of heat-and heat-pump installations operating ondensable vapor as the working fluid, a steam power plant.  cycles  . Hankine cycle  ASTEC solar turboelectric generator Brayton cycle  Carnot cycle  laser propulsion	UF GS RT rapid so USE rapid to	rapid solidification cooling . quenching (cooling) . rapid quenching (metallurgy) crystal growth crystal lattices crystal structure metallurgy quenching colidification rapid quenching (metallurgy) solidification ransit systems high speed transportation transportation . rapid transit systems air transportation
Ranger GS RT	television systems . spacecraft television . Ranger block 3 television system systems  systems  lunar landing vehicles lunar spacecraft . lunar probes . Ranger lunar probes . Ranger lunar landing vehicles unmanned spacecraft . space probes . lunar probes . lunar probes . Ranger lunar landing vehicles  . Ranger lunar landing vehicles BE-3 engine vehicles	Rankine DEF ing of he tropic e pressure an ideal engine with a c such as GS	e tests  a cycle  An ideal thermodynamic cycle consisterat addition at constant pressure, isen-expansion, heat rejection at constant e, and isentropic compression; used as standard for the performance of heat-and heat-pump installations operating ondensable vapor as the working fluid, a steam power plant.  cycles  thermodynamic cycles  Rankine cycle  ASTEC solar turboelectric generator Brayton cycle  Carnot cycle	UF GS RT rapid so USE rapid to UF GS	rapid solidification cooling . quenching (cooling) rapid quenching (metallurgy) crystal growth crystal lattices crystal structure metallurgy quenching colidification rapid quenching (metallurgy) solidification ransit systems high speed transportation transportation . rapid transit systems air transportation automated guideway transit vehicles
Ranger GS Ranger	television systems . spacecraft television . Ranger block 3 television system systems  lunar landing vehicles lunar spacecraft . lunar probes . Ranger lunar probes . Ranger lunar landing vehicles unmanned spacecraft . space probes . lunar probes Ranger lunar landing vehicles BE-3 engine vehicles lunar probes	Rankine DEF ing of he tropic e pressure an ideal engine with a c such as GS	e tests  a cycle  An ideal thermodynamic cycle consisterat addition at constant pressure, isenexpansion, heat rejection at constant e, and isentropic compression; used as standard for the performance of heat-and heat-pump installations operating ondensable vapor as the working fluid, a steam power plant.  cycles  . thermodynamic cycles  . Rankine cycle  ASTEC solar turboelectric generator Brayton cycle  Carnot cycle laser propulsion  Otto cycle solar dynamic power systems solar generators	UF GS RT rapid so USE rapid to UF GS	rapid solidification cooling . quenching (cooling) . rapid quenching (metallurgy) crystal growth crystal lattices crystal structure metallurgy quenching colidification rapid quenching (metallurgy) solidification ransit systems high speed transportation transportation . rapid transit systems air transportation automated guideway transit vehicles automated transit vehicles
Ranger GS RT	television systems . spacecraft television . Ranger block 3 television system systems  systems  lunar landing vehicles lunar spacecraft . lunar probes . Ranger lunar probes . Ranger lunar landing vehicles unmanned spacecraft . space probes . lunar probes . lunar probes . Ranger lunar landing vehicles  . Ranger lunar landing vehicles BE-3 engine vehicles	Rankine DEF ing of he tropic e pressure an ideal engine with a c such as GS	e tests  e cycle  An ideal thermodynamic cycle consistent addition at constant pressure, isent parameters, and isentropic compression; used as standard for the performance of heat and heat-pump installations operating ondensable vapor as the working fluid, a steam power plant.  cycles  thermodynamic cycles  Rankine cycle  ASTEC solar turboelectric generator Brayton cycle Carnot cycle laser propulsion Otto cycle solar dynamic power systems	UF GS RT rapid so USE rapid to UF GS	rapid solidification cooling . quenching (cooling) rapid quenching (metallurgy) crystal growth crystal lattices crystal structure metallurgy quenching colidification rapid quenching (metallurgy) solidification ransit systems high speed transportation transportation . rapid transit systems air transportation automated guideway transit vehicles
Ranger GS RT Ranger UF	television systems . spacecraft television . Ranger block 3 television system systems systems  lunar landing vehicles lunar spacecraft . lunar probes . Ranger lunar probes . Ranger lunar landing vehicles unmanned spacecraft . space probes . lunar probes . Ranger lunar probes . Ranger lunar probes . Ranger lunar probes lunar probes . Ranger lunar landing vehicles BE-3 engine vehicles lunar probes Ranger satellites lunar spacecraft . lunar probes	Rankine DEF ing of he tropic e pressure an ideal engine e with a c such as GS	e tests  a cycle  An ideal thermodynamic cycle consistent addition at constant pressure, isentic properties and isentropic compression; used as standard for the performance of heatnand heat-pump installations operating ondensable vapor as the working fluid, a steam power plant.  cycles  . Hankine cycle  ASTEC solar turboelectric generator Brayton cycle Carnot cycle laser propulsion Otto cycle solar dynamic power systems solar generators thermodynamics	UF GS RT rapid so USE rapid to UF GS	rapid solidification cooling . quenching (cooling) . rapid quenching (metallurgy) crystal growth crystal lattices crystal structure metallurgy quenching colidification rapid quenching (metallurgy) solidification ransit systems high speed transportation transportation . rapid transit systems air transportation automated guideway transit vehicles automated transit vehicles cargo ground effect machines highways
Ranger GS RT Ranger UF	television systems . spacecraft television . Ranger block 3 television system systems  lunar landing vehicles lunar spacecraft . lunar probes . Ranger lunar probes . Ranger lunar landing vehicles unmanned spacecraft . space probes . lunar probes Ranger lunar landing vehicles BE-3 engine vehicles  lunar probes Ranger satellites lunar spacecraft . lunar probes Ranger lunar probes Ranger lunar probes	Rankine DEF ing of he tropic e pressure an ideal engine with a c such as GS RT	e tests  a cycle  An ideal thermodynamic cycle consisterat addition at constant pressure, isenexpansion, heat rejection at constant e, and isentropic compression; used as standard for the performance of heat-and heat-pump installations operating ondensable vapor as the working fluid, a steam power plant.  cycles  . thermodynamic cycles  . Rankine cycle  ASTEC solar turboelectric generator Brayton cycle  Carnot cycle laser propulsion  Otto cycle solar dynamic power systems solar generators	UF GS RT rapid so USE rapid to UF GS	rapid solidification cooling . quenching (cooling) rapid quenching (metallurgy) crystal growth crystal lattices crystal structure metallurgy quenching colidification rapid quenching (metallurgy) solidification ransit systems high speed transportation transportation . rapid transit systems air transportation automated guideway transit vehicles automated transit vehicles cargo ground effect machines highways logistics
Ranger GS RT Ranger UF	television systems . spacecraft television . Ranger block 3 television system systems  lunar landing vehicles lunar spacecraft . lunar probes . Ranger lunar probes . Ranger lunar landing vehicles unmanned spacecraft . space probes . lunar probes Ranger lunar landing vehicles BE-3 engine vehicles  lunar probes Ranger satellites lunar spacecraft . lunar probes Ranger lunar probes	Rankine DEF ing of he tropic e pressure an ideal engine a with a such as GS RT	e tests  a cycle  An ideal thermodynamic cycle consistent addition at constant pressure, isen-expansion, heat rejection at constant e, and isentropic compression; used as standard for the performance of heat-and heat-pump installations operating ondensable vapor as the working fluid, a steam power plant.  cycles  . thermodynamic cycles  . Rankine cycle  ASTEC solar turboelectric generator Brayton cycle Carnot cycle laser propulsion Otto cycle solar dynamic power systems solar generators thermodynamics  P-Hugoniot relation aerothermodynamics	UF GS RT rapid so USE rapid to UF GS	rapid solidification cooling
Ranger GS RT Ranger UF	television systems . spacecraft television . Ranger block 3 television system systems  lunar landing vehicles lunar spacecraft . lunar probes . Ranger lunar probes . Ranger lunar landing vehicles unmanned spacecraft . space probes . lunar probes . lunar probes . Ranger lunar probes . Ranger lunar probes lunar probes . Ranger lunar landing vehicles BE-3 engine vehicles  lunar probes Ranger satellites lunar spacecraft . lunar probes . Ranger lunar probes . Ranger lunar probe . Ranger 1 lunar probe . Ranger 2 lunar probe . Ranger 3 lunar probe	Rankine DEF ing of he tropic e pressure an ideal engine a with a such as GS RT	e tests  a cycle  An ideal thermodynamic cycle consisteat addition at constant pressure, isen-expansion, heat rejection at constant e, and isentropic compression; used as standard for the performance of heat-and heat-pump installations operating ondensable vapor as the working fluid, a steam power plant.  cycles  . thermodynamic cycles  . Rankine cycle  ASTEC solar turboelectric generator Brayton cycle Carnot cycle laser propulsion Otto cycle solar dynamic power systems solar generators thermodynamics  c-Hugoniot relation aerothermodynamics density pressure gradients	UF GS RT rapid so USE rapid to UF GS	rapid solidification cooling
Ranger GS RT Ranger UF	television systems . spacecraft television . Ranger block 3 television system systems systems systems  lunar landing vehicles lunar spacecraft . lunar probes . Ranger lunar landing vehicles unmanned spacecraft . space probes . lunar probes . Ranger lunar probes . Ranger lunar probes . Ranger lunar probes . Ranger lunar landing vehicles BE-3 engine by teles lunar probes Ranger satellites lunar probes . Ranger lunar probes . Ranger lunar probes . Ranger lunar probes . Ranger 2 lunar probe . Ranger 3 lunar probe . Ranger 4 lunar probe	Rankine DEF ing of he tropic e pressure an ideal engine a with a such as GS RT	e tests  a cycle  An ideal thermodynamic cycle consistent addition at constant pressure, isen-expansion, heat rejection at constant e, and isentropic compression; used as standard for the performance of heat-and heat-pump installations operating ondensable vapor as the working fluid, a steam power plant.  cycles  . thermodynamic cycles  . Rankine cycle  ASTEC solar turboelectric generator Brayton cycle Carnot cycle laser propulsion Otto cycle solar dynamic power systems solar generators thermodynamics  P-Hugoniot relation aerothermodynamics	rapid so USE  rapid to UF GS	rapid solidification cooling . quenching (cooling) . rapid quenching (metallurgy) crystal growth crystal lattices crystal structure commetallurgy cupenching colidification rapid quenching (metallurgy) solidification rapid quenching (metallurgy) solidification rapid quenching (metallurgy) solidification rapid transit systems high speed transportation transportation . rapid transit systems air transportation automated guideway transit vehicles automated transit vehicles cargo ground effect machines highways logistics passengers rail transportation rails roads
Ranger GS RT Ranger UF	television systems . spacecraft television . Ranger block 3 television system systems  lunar landing vehicles lunar spacecraft . lunar probes . Ranger lunar probes . Ranger lunar landing vehicles unmanned spacecraft . space probes . lunar probes . lunar probes . Ranger lunar probes . Ranger lunar probes lunar probes . Ranger lunar landing vehicles BE-3 engine vehicles  lunar probes Ranger satellites lunar spacecraft . lunar probes . Ranger lunar probes . Ranger lunar probe . Ranger 1 lunar probe . Ranger 2 lunar probe . Ranger 3 lunar probe	Rankine DEF ing of he tropic e pressure an ideal engine a with a such as GS RT	e tests  a cycle  An ideal thermodynamic cycle consistent addition at constant pressure, isenoxpansion, heat rejection at constant a and isentropic compression; used as standard for the performance of heatnand heat-pump installations operating ondensable vapor as the working fluid, a steam power plant. cycles  . Hankine cycle  ASTEC solar turboelectric generator Brayton cycle Carnot cycle Laser propulsion Otto cycle solar dynamic power systems solar generators thermodynamics  e-Hugoniot relation aerothermodynamics density pressure gradients shock wave propagation	rapid so USE  rapid to UF GS	rapid solidification cooling
Ranger GS RT Ranger UF	television systems . spacecraft television . Ranger block 3 television systems  systems  lunar landing vehicles lunar spacecraft . lunar probes . Ranger lunar probes . Ranger lunar landing vehicles umanned spacecraft . space probes . lunar probes . lunar probes . Ranger lunar probes . Ranger lunar probes . Ranger lunar landing vehicles BE-3 engine vehicles  lunar probes Ranger satellites lunar spacecraft . lunar probes . Ranger lunar probes . Ranger lunar probe . Ranger 1 lunar probe . Ranger 2 lunar probe . Ranger 3 lunar probe . Ranger 4 lunar probe . Ranger 5 lunar probe . Ranger 6 lunar probe . Ranger 7 lunar probe	Rankine DEF ing of he tropic e pressure an ideal engine o such as GS RT  Rankine RT	e tests  a cycle  An ideal thermodynamic cycle consisteat addition at constant pressure, isen-expansion, heat rejection at constant e, and isentropic compression; used as standard for the performance of heat-and heat-pump installations operating ondensable vapor as the working fluid, a steam power plant. cycles  . thermodynamic cycles  . Rankine cycle  ASTEC solar turboelectric generator Brayton cycle Carnot cycle laser propulsion Otto cycle solar dynamic power systems solar generators thermodynamics  p-Hugoniot relation aerothermodynamics density pressure gradients shock wave propagation  arrays	rapid so USE  rapid to UF GS	rapid solidification cooling
Ranger GS RT Ranger UF	television systems . spacecraft television . Ranger block 3 television systems  lunar landing vehicles lunar spacecraft . lunar probes . Ranger lunar landing vehicles unmanned spacecraft . space probes . lunar probes . lunar probes . Ranger lunar landing vehicles unmanned spacecraft space probes . Ranger lunar probes . Ranger lunar probes . Ranger lunar landing vehicles BE-3 engine vehicles  lunar probes Ranger satellites lunar spacecraft . lunar probes . Ranger lunar probes . Ranger lunar probe . Ranger 1 lunar probe . Ranger 2 lunar probe . Ranger 3 lunar probe . Ranger 4 lunar probe . Ranger 6 lunar probe . Ranger 7 lunar probe . Ranger 7 lunar probe . Ranger 8 lunar probe . Ranger 8 lunar probe . Ranger 8 lunar probe	Rankine DEF ing of he tropic e pressure an ideal engine a with a c such as GS RT  Rankine RT	e tests  a cycle  An ideal thermodynamic cycle consistent addition at constant pressure, isenoxpansion, heat rejection at constant as and isentropic compression; used as standard for the performance of heat-and heat-pump installations operating ondensable vapor as the working fluid, a steam power plant.  cycles  . Hankine cycle  ASTEC solar turboelectric generator Brayton cycle Carnot cycle laser propulsion Otto cycle solar dynamic power systems solar generators thermodynamics  b-Hugoniot relation aerothermodynamics density pressure gradients shock wave propagation	rapid so USE  rapid to UF GS	rapid solidification cooling
Ranger GS RT Ranger UF	television systems . spacecraft television . Ranger block 3 television system systems  systems  lunar landing vehicles lunar spacecraft . lunar probes . Ranger lunar landing vehicles unmanned spacecraft . space probes . lunar probes . lunar probes . Ranger lunar landing vehicles unmanned spacecraft space probes . lunar probes . Ranger lunar landing vehicles BE-3 engine vehicles  lunar probes Ranger satellites lunar probes . Ranger lunar probe . Ranger 1 lunar probe . Ranger 2 lunar probe . Ranger 3 lunar probe . Ranger 4 lunar probe . Ranger 6 lunar probe . Ranger 6 lunar probe . Ranger 7 lunar probe . Ranger 8 lunar probe . Ranger 8 lunar probe . Ranger 9 lunar probe	Rankine DEF ing of he tropic e pressure an ideal engine a with a c such as GS RT  Rankine RT	e tests  a cycle  An ideal thermodynamic cycle consisteat addition at constant pressure, isen-expansion, heat rejection at constant e, and isentropic compression; used as standard for the performance of heat-and heat-pump installations operating ondensable vapor as the working fluid, a steam power plant. cycles  . thermodynamic cycles  . Rankine cycle  ASTEC solar turboelectric generator Brayton cycle Carnot cycle laser propulsion Otto cycle solar dynamic power systems solar generators thermodynamics  p-Hugoniot relation aerothermodynamics density pressure gradients shock wave propagation  arrays	rapid so USE  rapid to UF GS	rapid solidification cooling
Ranger GS RT Ranger UF	television systems . spacecraft television . Ranger block 3 television systems  lunar landing vehicles lunar spacecraft . lunar probes . Ranger lunar probes . Ranger lunar landing vehicles umanned spacecraft . space probes . lunar probes . lunar probes . Ranger lunar probes . Ranger lunar landing vehicles lunar probes . Ranger lunar landing vehicles BE-3 engine vehicles  lunar probes Ranger satellites lunar spacecraft . lunar probes . Ranger lunar probe . Ranger 1 lunar probe . Ranger 2 lunar probe . Ranger 3 lunar probe . Ranger 4 lunar probe . Ranger 5 lunar probe . Ranger 6 lunar probe . Ranger 7 lunar probe . Ranger 8 lunar probe . Ranger 9 lunar probe . Ranger lunar probe . Ranger 9 lunar probe . Ranger lunar landing vehicles unmanned spacecraft	Rankine DEF ing of he tropic e pressure an ideal engine a with a c such as GS RT  Rankine RT	e tests  a cycle  An ideal thermodynamic cycle consistent addition at constant pressure, isentic parameters, and isentropic compression; used as standard for the performance of heather and heat-pump installations operating ondensable vapor as the working fluid, a steam power plant. cycles  . thermodynamic cycles  . Rankine cycle  ASTEC solar turboelectric generator Brayton cycle Carnot cycle laser propulsion Otto cycle solar dynamic power systems solar generators thermodynamics  aerothermodynamics  chankine cycle solar dynamic power systems solar generators thermodynamics  chankine cycle solar dynamic power systems solar generators thermodynamics  chankine cycle solar dynamic power systems solar generators thermodynamics chanking comparison evaluation ratings selection	rapid so USE  rapid tr UF GS RT	rapid solidification cooling     quenching (cooling)     . rapid quenching (metallurgy)     crystal growth     crystal lattices     crystal structure     metallurgy     quenching     didification     rapid quenching (metallurgy)     solidification     rapid quenching (metallurgy)     solidification     ransit systems     high speed transportation     transportation     . rapid transit systems     air transportation     automated guideway transit vehicles     automated transit vehicles     cargo     ground effect machines     highways     logistics     passengers     rail transportation     rails     roads     systems     transport vehicles     transport vehicles     transport vehicles     transportation networks     urban transportation  meanders
Ranger GS RT Ranger UF	television systems . spacecraft television . Ranger block 3 television systems  systems  lunar landing vehicles lunar spacecraft . lunar probes . Ranger lunar probes . Ranger lunar landing vehicles unmanned spacecraft . space probes . lunar probes . lunar probes . Ranger lunar probes . Ranger lunar probes . Ranger lunar landing vehicles BE-3 engine vehicles  lunar probes Ranger satellites lunar spacecraft . lunar probes . Ranger lunar probe . Ranger lunar probe . Ranger 1 lunar probe . Ranger 2 lunar probe . Ranger 3 lunar probe . Ranger 4 lunar probe . Ranger 5 lunar probe . Ranger 6 lunar probe . Ranger 7 lunar probe . Ranger 8 lunar probe . Ranger 9 lunar probe . Ranger lunar landing vehicles unmanned spacecraft . space probes	Rankine DEF ing of he tropic e pressure an ideal engine a with a c such as GS RT  Rankine RT	e tests  a cycle  An ideal thermodynamic cycle consisteat addition at constant pressure, isen-expansion, heat rejection at constant e, and isentropic compression; used as standard for the performance of heat-and heat-pump installations operating ondensable vapor as the working fluid, a steam power plant.  cycles  . thermodynamic cycles  . Rankine cycle  ASTEC solar turboelectric generator Brayton cycle Carnot cycle laser propulsion Otto cycle solar dynamic power systems solar generators thermodynamics  P-Hugoniot relation aerothermodynamics density pressure gradients shock wave propagation  arrays comparison evaluation ratings selection sequencing	rapid to GS  RT  rapid to USE  RT  rapid to GS  RT	rapid solidification cooling     quenching (cooling)     rapid quenching (metallurgy)     crystal growth     crystal lattices     crystal structure     metallurgy     quenching     quenching     indidification     rapid quenching (metallurgy)     solidification     rapid quenching (metallurgy)     solidification     rapid quenching (metallurgy)     solidification     rapid transportation     transportation     . rapid transit systems     air transportation     automated guideway transit vehicles     automated transit vehicles     cargo     ground effect machines     highways     logistics     passengers     rail transportation     rails     roads     systems     systems     transport vehicles     transport vehicles     transportation networks     urban transportation  meanders river basins
Ranger GS RT Ranger UF	television systems spacecraft television Ranger block 3 television systems systems  lunar landing vehicles lunar spacecraft lunar probes Ranger lunar landing vehicles unmanned spacecraft space probes lunar probes Ranger satellites lunar probes Ranger satellites lunar probes Ranger lunar probes Ranger lunar probe Ranger 2 lunar probe Ranger 3 lunar probe Ranger 5 lunar probe Ranger 6 lunar probe Ranger 7 lunar probe Ranger 9 lunar probe Ranger lunar landing vehicles unmanned spacecraft space probes lunar probes	Rankine DEF ing of he tropic e pressure an ideal engine a with a GS RT  Rankine RT  ranking	e tests  a cycle  An ideal thermodynamic cycle consistent addition at constant pressure, isentic parameters, and isentropic compression; used as standard for the performance of heather and heat-pump installations operating ondensable vapor as the working fluid, a steam power plant. cycles  . thermodynamic cycles  . Rankine cycle  ASTEC solar turboelectric generator Brayton cycle Carnot cycle laser propulsion Otto cycle solar dynamic power systems solar generators thermodynamics  aerothermodynamics  chankine cycle solar dynamic power systems solar generators thermodynamics  chankine cycle solar dynamic power systems solar generators thermodynamics  chankine cycle solar dynamic power systems solar generators thermodynamics chanking comparison evaluation ratings selection	rapid to GS  RT  rapid to USE  RT  rapid to GS  RT	rapid solidification cooling . quenching (cooling) . rapid quenching (metallurgy) crystal growth crystal lattices crystal structure metallurgy quenching colidification rapid quenching (metallurgy) solidification rapid quenching (metallurgy) s
Ranger GS RT Ranger UF	television systems . spacecraft television . Ranger block 3 television systems  systems  lunar landing vehicles lunar spacecraft . lunar probes . Ranger lunar probes . Ranger lunar landing vehicles unmanned spacecraft . space probes . lunar probes . lunar probes . Ranger lunar probes . Ranger lunar probes . Ranger lunar landing vehicles BE-3 engine vehicles  lunar probes Ranger satellites lunar spacecraft . lunar probes . Ranger lunar probe . Ranger lunar probe . Ranger 1 lunar probe . Ranger 2 lunar probe . Ranger 3 lunar probe . Ranger 4 lunar probe . Ranger 5 lunar probe . Ranger 6 lunar probe . Ranger 7 lunar probe . Ranger 8 lunar probe . Ranger 9 lunar probe . Ranger lunar landing vehicles unmanned spacecraft . space probes	Rankine DEF ing of he tropic e pressure an ideal engine a with a GS RT  Rankine RT  ranking	e tests  a cycle  An ideal thermodynamic cycle consistent addition at constant pressure, isenoxpansion, heat rejection at constant a and isentropic compression; used as standard for the performance of heatnand heat-pump installations operating ondensable vapor as the working fluid, a steam power plant.  cycles  . Hankine cycle  ASTEC solar turboelectric generator Brayton cycle  Carnot cycle laser propulsion  Otto cycle solar dynamic power systems solar generators thermodynamics  e-Hugoniot relation aerothermodynamics density pressure gradients shock wave propagation  arrays comparison evaluation ratings selection sequencing value	rapid to GS  RT  rapid to USE  RT  rapid to GS  RT	rapid solidification cooling     quenching (cooling)     rapid quenching (metallurgy)     crystal growth     crystal lattices     crystal structure     metallurgy     quenching     quenching     indidification     rapid quenching (metallurgy)     solidification     rapid quenching (metallurgy)     solidification     rapid quenching (metallurgy)     solidification     rapid transportation     transportation     . rapid transit systems     air transportation     automated guideway transit vehicles     automated transit vehicles     cargo     ground effect machines     highways     logistics     passengers     rail transportation     rails     roads     systems     systems     transport vehicles     transport vehicles     transportation networks     urban transportation  meanders river basins
Ranger GS RT Ranger UF	television systems . spacecraft television . Ranger block 3 television systems  systems  lunar landing vehicles lunar spacecraft . lunar probes . Ranger lunar probes . Ranger lunar landing vehicles unmanned spacecraft . space probes . lunar probes . lunar probes . Ranger lunar probes . Ranger lunar landing vehicles BE-3 engine vehicles  lunar probes Ranger satellites lunar spacecraft . lunar probes . Ranger lunar probes . Ranger lunar probe . Ranger 1 lunar probe . Ranger 2 lunar probe . Ranger 3 lunar probe . Ranger 4 lunar probe . Ranger 5 lunar probe . Ranger 6 lunar probe . Ranger 8 lunar probe . Ranger 9 lunar probe . Ranger lunar landing vehicles unmanned spacecraft . space probes . lunar probes . Ranger I lunar probe . Ranger I lunar probe . Ranger I lunar probe . Ranger I lunar probes . Ranger I lunar probe	Rankine DEF ing of he tropic e pressure an ideal engine a with a such as GS RT  Rankine RT  ranking RT	e tests  a cycle  An ideal thermodynamic cycle consisteat addition at constant pressure, isentic paragraphic, and isentropic compression; used as standard for the performance of heating and isentropic compression; used as standard for the performance of heating and heat-pump installations operating ondensable vapor as the working fluid, a steam power plant.  cycles  . thermodynamic cycles  . Rankine cycle  ASTEC solar turboelectric generator Brayton cycle Carnot cycle laser propulsion Otto cycle solar dynamic power systems solar generators thermodynamics  arrays comparison evaluation ratings selection sequencing value  aw composition (property)	rapid to GS  RT  rapid to USE  RT  rapid to GS  RT	rapid solidification cooling     quenching (cooling)     . rapid quenching (metallurgy)     crystal growth     crystal lattices     crystal structure     metallurgy     quenching colidification     rapid quenching (metallurgy)     solidification     rapid quenching (metallurgy)     solidification  ransit systems     high speed transportation     transportation     . rapid transit systems     air transportation     automated guideway transit vehicles     automated transit vehicles     cargo     ground effect machines     highways     logistics     passengers     rail transportation     rails     roads     systems     transport vehicles     transportation networks     urban transportation  meanders     river basins     rivers     streams
Ranger GS RT Ranger UF	television systems . spacecraft television . Ranger block 3 television systems  lunar landing vehicles lunar spacecraft . lunar probes . Ranger lunar landing vehicles unmanned spacecraft . space probes . lunar probes . lunar probes . Ranger lunar probes  BE-3 engine vehicles  lunar probes Ranger satellites lunar probes . Ranger lunar probes . Ranger lunar probe . Ranger 2 lunar probe . Ranger 3 lunar probe . Ranger 4 lunar probe . Ranger 5 lunar probe . Ranger 6 lunar probe . Ranger 7 lunar probe . Ranger 9 lunar probe . Ranger lunar landing vehicles unmanned spacecraft . space probes . lunar probes . Ranger lunar probe . Ranger 2 lunar probe . Ranger 2 lunar probe . Ranger 3 lunar probe	Rankine DEF ing of he tropic e pressure an ideal engine a with a GS RT  Rankine RT  ranking RT	e tests  a cycle  An ideal thermodynamic cycle consistent addition at constant pressure, isenoxpansion, heat rejection at constant as, and isentropic compression; used as standard for the performance of heat-and heat-pump installations operating ondensable vapor as the working fluid, a steam power plant.  cycles  . Hankine cycle  ASTEC solar turboelectric generator Brayton cycle Carnot cycle laser propulsion Otto cycle solar dynamic power systems solar generators solar generators thermodynamics  -Hugoniot relation aerothermodynamics density pressure gradients shock wave propagation  arrays comparison evaluation ratings selection sequencing value  law composition (property) Henry law	rapid su USE  rapid tu UF GS  RT  rapids  RT	rapid solidification cooling . quenching (cooling) . rapid quenching (metallurgy) crystal growth crystal lattices crystal structure metallurgy quenching colidification rapid quenching (metallurgy) solidification rapid quenching (metallurgy) s
Ranger GS RT Ranger UF	television systems . spacecraft television . Ranger block 3 television systems  systems  lunar landing vehicles lunar spacecraft . lunar probes . Ranger lunar probes . Ranger lunar landing vehicles unmanned spacecraft . space probes . lunar probes . lunar probes . Ranger lunar probes . Ranger lunar landing vehicles BE-3 engine vehicles  lunar probes Ranger satellites lunar spacecraft . lunar probes . Ranger lunar probes . Ranger lunar probe . Ranger 1 lunar probe . Ranger 2 lunar probe . Ranger 3 lunar probe . Ranger 4 lunar probe . Ranger 5 lunar probe . Ranger 6 lunar probe . Ranger 8 lunar probe . Ranger 9 lunar probe . Ranger lunar landing vehicles unmanned spacecraft . space probes . lunar probes . Ranger I lunar probe . Ranger I lunar probe . Ranger I lunar probe . Ranger I lunar probes . Ranger I lunar probe	Rankine DEF ing of he tropic e pressure an ideal engine a with a GS RT  Rankine RT  ranking RT	e tests  a cycle  An ideal thermodynamic cycle consisteat addition at constant pressure, isentic paragraphic, and isentropic compression; used as standard for the performance of heating and isentropic compression; used as standard for the performance of heating and heat-pump installations operating ondensable vapor as the working fluid, a steam power plant.  cycles  . thermodynamic cycles  . Rankine cycle  ASTEC solar turboelectric generator Brayton cycle Carnot cycle laser propulsion Otto cycle solar dynamic power systems solar generators thermodynamics  arrays comparison evaluation ratings selection sequencing value  aw composition (property)	rapid to USE  rapid to USE  rapid to USE  rapids RT	rapid solidification cooling

	. rare earth alloys	lutetium isotopes	gases a	re 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 ea	rth compounds	samarium isotopes	RT	coherent light
GS	rare earth compounds	scandium		laser pumping
	. cerium compounds	scandium isotopes		lasing
	bastnasite	terbium		light beams
	cerium oxides	terbium isotopes		optical pumping
	. dysprosium compounds	thulium		stimulated emission
	. erbium compounds	thulium isotopes	_	
	europium compounds	ytterbium	rarefac	
	lanthanum tellurides	ytterbium isotopes	RT	antinodes
	. lutetium compounds	yttrium		compressing
	neodymium compounds	yttrium isotopes		elastic waves
	praseodymium compounds	RT alkali vapor lamps		expansion
	samarium compounds	kreep		vacuum
	scandium compounds	neodymium lasers		V
	scandium oxides	transition metals		ion waves
	. terbium compounds		USE	elastic waves
	. thulium compounds	∞ rare gas compounds		l d
	ytterbium compounds	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		d gas dynamics
RT o	∞ chemical compounds	LISTED BELOW)	GS	mechanics (physics)
		RT ∞ chemical compounds		. fluid mechanics
0	∞ metal compounds	excimer lasers		fluid dynamics
	•	excimers		gas dynamics
rara aa	rth elements	helium compounds	DT	rarefied gas dynamics
UF	lanthanide series metals	xenon compounds	RT	atomic beams
GS	chemical elements	·		BGK model
as	. rare earth elements	rare gases		Chapman-Enskog theory
		DEF Gases such as helium, neon, argon,		continuum flow
	cerium cerium isotopes	krypton, xenon, and radon, all of whose shells of	c	dynamics
	cerium 137	planetary electrons contain stable numbers of		free molecular flow
		electrons so that the atoms are almost com-		Knudsen flow
	cerium 144	pletely chemically inactive. Used for inert gases		low density flow
	dysprosium	and noble gases.		low density wind tunnels
	dysprosium isotopes erbium	UF inert gases		molecular beams
		noble gases		molecular flow
	erbium isotopes	GS chemical elements		plasmas (physics)
	europium europium isotopes	. rare gases		slip flow
		argon		transition flow
	gadolinium	argon isotopes		
	gadolinium isotopes holmium	helium	rarefied	
		helium isotopes	UF	low density gases
	holmium isotopes	liquid helium	GS	gases
	lanthanum lanthanum isotopes	liquid helium 2		rarefied gases
	lutetium	krypton		cosmic gases
	lutetium isotopes	krypton isotopes		interplanetary gas
	neodymium	krypton 85	DT	interstellar gas
	neodymium isotopes	neon	RT	electron gas
	praseodymium	liquid neon		free molecular flow
	praseodymium isotopes	neon isotopes		gas density
	promethium	radon		gas temperature
	promethium isotopes	radon isotopes		high temperature gases low density flow
	samarium	xenon		
	samarium isotopes	xenon isotopes		low density research
	scandium	xenon 129		molecular gases
	scandium isotopes	xenon 133	rarofio	l plasmas
	terbium	xenon 135	GS	gases
	terbium isotopes	gases	as	. rarefied plasmas
	thulium	. rare gases		particles
	thulium isotopes	argon		. charged particles
	ytterbium	argon isotopes		energetic particles
	ytterbium isotopes	helium		plasmas (physics)
	yttrium	helium isotopes		rarefied plasmas
	yttrium isotopes	liquid helium		. corpuscular radiation
	metals	liquid helium 2		energetic particles
	. rare earth elements	krypton		plasmas (physics)
	cerium	krypton isotopes		rarefied plasmas
	cerium isotopes	krypton 85	RT	cathode glow
	cerium 137	neon		cold plasmas
	cerium 144	liquid neon		collisionless plasmas
	dysprosium	neon isotopes		electron plasma
	dysprosium isotopes	radon		nonuniform plasmas
	erbium	radon isotopes		nonamioni piaomas
	erbium isotopes	xenon	rasers	
	europium	xenon isotopes	USE	masers
	europium isotopes	xenon 129	002	
	gadolinium	xenon 133	raster s	scanning
	gadolinium isotopes	xenon 135		Sweeping a cathode ray screen or an
	holmium	RT monatomic gases		a beam characterized by a network of
	holmium isotopes	nonpolar gases		sweeps either from side to side or from
	lanthanum	Ramsauer effect	top to b	
	lanthanum isotopes	rare gas-halide lasers	GS GS	imaging techniques
	lutetium	DEF A class of lasers in which the inert	45	. raster scanning
		DEL A GIAGO DI IAGOTO III WIIIGII IIIE IIIEIL		

	scanning		. propagation velocity		. likelihood ratio
	. raster scanning		. pulse rate		. Mach number
RT	cathode ray tubes		pulse repetition rate		. mass ratios
	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		dyspnea		. Mills ratio
	television cameras		hypoventilation		. modular ratios
	television cameras		tachypnea		. Nusselt number
rate me	ters		. rotor speed		. Peclet number
USE	measuring instruments				
OOL	measuring menuncines		. signal fading rate		. perveance
rate of	climb indicators		. solar velocity		. Poisson ratio
GS	aircraft instruments		. star formation rate		. Prandtl number
ao	. rate of climb indicators		. strain energy release rate		. pressure ratio
RT	altimeters		. strain rate		. Rayleigh number
111	flight instruments		. subsonic speed		. Reynolds number
	o indicators		. supersonic speed		. high Reynolds number
	· Indicators		. systole		low Reynolds number
rates (r	per time)		. terminal velocity		. Brinkman number
GS	rates (per time)		. tip speed		. Richardson number
ao	. acceleration (physics)		transmission rate (communications)		. scale (ratio)
			. transonic speed		. Schmidt number
	angular acceleration		. wind velocity		. signal to noise ratios
	deceleration		solar wind velocity		. similarity numbers
	spin reduction	RT	access time		. standing wave ratios
	electron acceleration		MTBF		. Stanton number
	high acceleration		solitary waves		. 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		RT	dynamic range
		GS	ratings		efficiency
	. airspeed		. pilot ratings		fractals
	. angular velocity		Cooper-Harper ratings		fractions
	. bit error rate	RT	assessments		proportion
	. burning rate		consistency		psychological tests
	. collision rates		evaluation		refractivity
	. critical velocity		normalizing (statistics)		. on douving
	. decay rates	~	performance	rats	
	electron decay rate		position (title)	GS	animals
	. drift rate		ranking	ao	. vertebrates
	. escape velocity		Taliking		
	. evaporation rate	rotiomo	toro		mammals
	. exhaust velocity	ratiome			rodents
		GS	measuring instruments		rats
	. flow velocity		. ratiometers	RT	animal models
	solar wind velocity				mice
	. flux (rate)		functions		pocket mice
	heat flux	GS	analysis (mathematics)		
	magnetic flux		. complex variables	RATSCA	AT program
	solar flux		meromorphic functions		radar target scatter site program
	. flux density		rational functions		
	current density		functions (mathematics)	Raven h	nelicopter
	photon density		. meromorphic functions		OH-23 helicopter
	radiant flux density		rational functions	002	
	irradiance		Tational functions	ravines	
	illuminance	rations		GS	landforms
			rations	GS	
	solar constant	GS	rations	DT	. ravines
	lumens		. space rations	RT	canyons
	luminous intensity	RT ∝	o food		erosion
	illuminance				river basins
	luminance	ratios			topography
	particle flux density	UF	percentage		valleys
	electron flux density	GS	ratios		water erosion
	neutron flux density		. aspect ratio		
	proton flux density		fineness ratio	rawinso	ondes
	radiance		high aspect ratio	DEF	Combinations of raob and rawin; ob-
	radiancy		low aspect ratio		ns of temperature, pressure, relative hu
	solar flux density		thickness ratio		and winds-aloft by means of radiosonde
	solar constant		. Biot number		io direction finding equipment of rada
	sound intensity			tracking	
	,		. bypass ratio	GS	
	zero sound		. compression ratio	do	measuring instruments
	. ground speed		. fiber volume fraction		. meteorological instruments
	group velocity		. Froude number		radiosondes
	. heart rate		. fuel-air ratio		rawinsondes
	arrhythmia		. Grashof number		. 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		vegetative index		rawinsondes
	. light speed		leaf area index		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
	. physiological acceleration		. lift drag ratio		radar tracking
	. p., you or grown according to the				. aaai iiaviiiid

radio tracking ... Raytheon computers sky wind measurement razor blades Rayleigh waves GS cutters Two dimensional barotropic disturray acoustics . blades (cutters) bances in a fluid having one or more discontinuities in the vorticity profile. Surface waves USE geometrical acoustics . razor blades associated with the free boundary of a solid, ray casting RB-47 aircraft such that a surface particle describes an ellipse (added May 1997) USE ray tracing USE **B-47 aircraft** whose major axis is normal to the surface and whose center is at the undisturbed surface. At RB-50 aircraft maximum particle displacement away from the USE B-50 aircraft ray optics solid surface the motion of the particle is oppo-USE geometrical optics site to that of the wave. RB-57 aircraft elastic waves USE **B-57 aircraft** ray tracing . seismic waves DEF A procedure used in the graphical determination of the path followed by a single ray . Rayleigh waves RB-66 aircraft barotropic flow USE **B-66** aircraft of radiant energy as it travels through media of varying indices of refraction.

UF ray casting fluid flow S waves RBCC engines ray casting two dimensional flow (added August 1999) RT diffraction USE rocket-based combined-cycle geometrical optics engines Rayleigh-Benard convection geometrical theory of diffraction The flow of a fluid contained between gradient index optics horizontal thermally conducting plates and heated from below. The Rayleigh number is RBE grazing incidence USE relative biological effectiveness optical measurement (RBE) proportional to the temperature difference bereflectance tween the plates. tracking (position) **RC** circuits GS convection transmittance UF RC networks . free convection GS circuits ... Rayleigh-Benard convection **RC** circuits Rayleigh distribution Benard cells capacitance functions (mathematics) fluid flow coupling circuits . probability density functions . convective flow discriminators Rayleigh distribution . . Rayleigh-Benard convection electric filters statistical analysis . . Benard cells electrical resistance . probability density functions buoyancy-driven flow LC circuits . Rayleigh distribution convection currents network analysis statistical distributions convection-diffusion equation network synthesis . Rayleigh distribution convective heat transfer RLC circuits error analysis forced convection time constant operations research hot surfaces transconductance radial distribution laminar flow Rayleigh number RC networks solar convection (astronomy) Rayleigh equations USE RC circuits stellar convection RT ∞ equations flow equations thermal boundary layer **RCA** computers heat transfer GS data processing equipment Rayleigh-Ritz method thermodynamics . computers analysis (mathematics) ... RCA computers . numerical analysis Rayleigh fading (added June 2000) RCA spectra 70 computer . . approximation . RCA-110 computers DEF Rapid-fluctuation, small-scale fading resulting from multipath effects, and typically Rayleigh-Ritz method RT data processing RT ∞ methodology variational principles occurring in non-line-of-sight (NLOS) environ-**RCA Satcom satellites** Domestic commercial communications ments. fading rayon satellites launched by NASA for the RCA Corpo-GS A manufactured fiber composed of re-. signal fading ration. generated cellulose, as well as fibers composed artificial satellites . Rayleigh fading of regenerated cellulose in which substituents . communication satellites channels (data transmission) have replaced not more than 15 percent of the . RCA Satcom satellites mobile communication systems hydrogens of the hydroxyl groups. commercial spacecraft multipath transmission fibers **RCA Satcom satellites** phase shift keying . synthetic fibers Delta launch vehicle radio signals . rayon domestic satellite communications reception diversity textiles systems . rayon Rayleigh number RCA spectra 70 computer dimensionless numbers GS data processing equipment ∞ rays Rayleigh number (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) atmospheric radiation . computers SN . . digital computers Rayleigh number ... RCA spectra 70 computer RT Benard cells . . RCA computers buoyancy background noise ... RCA spectra 70 computer Rayleigh-Benard convection beams (radiation) caustics (optics) RCA-110 computers coherent radiation Rayleigh scattering data processing equipment continuous radiation DEF Any scattering process produced by . computers corpuscular radiation electromagnetic radiation

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

airglow RT gray gas light scattering Raman spectroscopy

Raytheon computers

GS data processing equipment

extraterrestrial radiation

. computers

gamma ravs

lunar rays

. . digital computers

polarized radiation

pulsed radiation

. . RCA computers

... RCA-110 computers

RCB stars USE

R Coronae Borealis stars

### **RDX** UF

cyclotrimethylene trinitramine trinitrotriazocyclohexane

GS explosives

. RDX

nitrogen compounds

. azo compounds thrust control perceptual time constant RDX physiological effects organic compounds reaction intermediates pontryagin principle cyclic compounds (added August 2004) psychological effects DEF Substances formed during or contrib-. . heterocyclic compounds psychomotor performance . . RDX uting towards, the synthesis or metabolism of ramp functions propellants other products. Reaction intermediates may reflexes . RDX also be the desired product of two or more inital refractory period pyrotechnics reacting materials. sensitivity solid propellants GS products sensorimotor performance solid rocket propellants . reaction products step functions reaction intermediates time constant chemical reactions time lag reactance reaction kinetics GS electrical properties synthesis (chemistry) . electrical impedance reaction wheels . reactance inertia wheels reaction jet backpacks impedance GS wheels USE self maneuvering units . electrical impedance . reaction wheels reactance attitude control reaction jets capacitance counter-rotating wheels jet flow USE electrical resistance Foster theory flywheels jet thrust inductance reaction kinetics reaction-diffusion equations Smith chart chemical kinetics (added July 1994) RT combustion physics transconductance reaction rate GS kinetics convection-diffusion equation diffusion coefficient reactance amplifiers . reaction kinetics USE parametric amplifiers RT amino radical ∞ equations association reactions Ficks equation autocatalysis reacting flow partial differential equations catalysis (added August 1991) reaction kinetics chemical equilibrium DEF Fluid flows in which chemical reactions transport theory chemical reactions are occurring or potentially can occur. Used for combustion chemistry chemically reacting flow. Damkohler number chemically reacting flow reactive centers Fischer-Tropsch process GS (added August 2004) fluid flow half life . reacting flow USE active sites (chemistry) heat of dissociation . combustible flow interstellar chemistry boundary layer combustion irreversible processes reactivity chemical reactions DFF The ability to react. For proper use of nitrous acid combustion chemistry the term, the reaction in question and the connuclear reactions detonable gas mixtures ditions should be stated and the parameter used pressure dependence direct numerical simulation reacting flow in measuring reactivity indicated, such as rate, flame propagation uniformity, or the like. reaction intermediates ∞ flow reactivity reaction-diffusion equations fuel flow . photorefractivity premixed flames reagents chemical reactions propellant combustion solvation inhour equation reaction kinetics nuclear reactions reaction products turbulent combustion DEF The substances formed in a chemical reaction -- the desired items as well as the turbulent flow reactor chemistry unwanted fumes, sludge, residues, etc. USE radiochemistry ∞ reaction (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) chemical reactions GS products SN reaction products .. combustion products reactor cores . . . soot DEF In nuclear reactors, the regions conhuman reactions . reaction intermediates taining the fissionable material. irritation ashes cores nuclear reactions by-products reactor cores thrust effluents annular core pulse reactors engines control rods exhaust gases reaction bonding nuclear fuel elements fumes DEF Chemical combining of ingredients to nuclear fuels gases produce silicon nitride ceramics. nuclear reactors infrared suppression bonding GS ∞ operators jet engines reaction bonding plasma core reactors precipitates aluminum reflectometers residues ceramics reflectors slags chemical reactions void ratio sludge melting points nitrogen reaction rate reactor design oxygen USE reaction kinetics annular core pulse reactors powder metallurgy blankets (fission reactors) . sialon blankets (fusion reactors) silicon DEF In human engineering, the interval bechemical reactors silicon nitrides tween an input signal (physiological) or a stimucomputer aided design sintering lus (psychophysiological) and the response elic-∞ design ited by the signal. Used for reverse time. engine design ∞ reaction control reverse time engineering test reactors (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) chemical reaction control Hanford reactors GS time . reaction time high temperature nuclear reactors . chronaxy limiters (fusion reactors)  $\infty$  control adaptation nuclear reactors directional control conditioned reflexes nuclear research and test reactors Marquardt R4D engine dynamic characteristics offshore reactor sites nuclear reactor control organic cooled reactors dynamic response

human reactions

reactor safety

pebble bed reactors

product development	electric reactors	molecular gases
	fast test reactors	monatomic gases
reactor fuels	fusion reactors	and accombined
USE nuclear fuels	fusion-fission hybrid reactors	real numbers
	high temperature nuclear reactors	GS real numbers
reactor in flight test program	molten salt nuclear reactors	. integers
USE RIFT (reactor in flight test)	nuclear reactors	RT complex numbers
vecatev materials	nuclear research and test reactors	∞ numbers
reactor materials	plasma core reactors	
RT annular core pulse reactors	power reactors	real time operation
blankets (fission reactors)	RIFT (reactor in flight test)	DEF Time in which reporting on events or
blankets (fusion reactors)	SNAPTRAN reactor	recording of events is simultaneous with the
chemical reactors	spheromaks	events.
∞ construction materials	swimming pool reactors	RT automatic control
coolants	thermal reactors	computer programming
limiters (fusion reactors)	tokamak devices	computers
loss of coolant	water cooled reactors	display devices
∞ materials	mater cooled reactors	integrated mission control center
materials selection	readers	multiprocessing (computers)
moderators	UF reading machines	onboard data processing
nuclear fuel elements	RT character recognition	windows (computer programs)
nuclear fuels	conical scanning	( 1 1 0 7
nuclear reactors	∞ detectors	real variables
pressure vessels	magnetic tapes	GS analysis (mathematics)
radiation shielding	microfilms	. real variables
spent fuels		Abel function
	optical data processing	asymptotes
reactor physics	optical scanners	Bessel functions
GS nuclear physics	pattern recognition	Hankel functions
. reactor physics	punched cards	Bethe-Salpeter equation
• •	punched tapes	
	reading	calculus of variations
beta factor		composite functions
Hanford reactors	reading	delta function
inhour equation	GS reading	differential equations
nuclear fuel burnup	. lip reading	Blasius equation
nuclear reactors	RT character recognition	Chandrasekhar equation
∞ physics	conical scanning	cosine series
∞ science	data transmission	Duffing differential equation
	display devices	Falkner-Skan equation
reactor safety	input	hyperbolic differential equations
DEF Theoretical and experimental investi-	•	Lame wave equations
gations of the behavior of reactor types and	∞ interpretation	partial differential equations
designs under various real or hypothetical acci-	legibility	biharmonic equations
dents.	perception	Burger equation
GS safety	printing	
. reactor safety	readers	Cauchy-Riemann equations
RT annular core pulse reactors	scanners	elliptic differential equations
chemical reactors	scanning	Monge-Ampere equation
	symbols	Euler-Cauchy equations
control rods	visibility	Ffowcs Williams-Hawkings
explosions	•	equation
industrial safety	reading machines	Fokker-Planck equation
nuclear reactor control	USE readers	Gauss equation
nuclear reactors		Helmholtz vorticity equation
offshore reactor sites	readjustment	Liouville equations
radiation hazards	USE adjusting	parabolic differential equations
∞ reaction control	00 <u>1</u>	Poisson equation
relief valves	read-only memory devices	vlasov equations
Transient Reactor Test Facility	DEF Computer devices for storing data in	Riccati equation
•	permanent or nonerasable form. Used for ROM	vorticity equations
reactor startup tests	devices.	Helmholtz vorticity equation
GS fuel tests		
. reactor startup tests	UF ROM devices GS computer components	Einstein equations existence theorems
RT initiation	and the process of the contract of the contrac	
nuclear fuels	. computer storage devices	extremum values
nuclear reactors	read-only memory devices	limits (mathematics)
starting	CD-ROM	maxima
9	RT computer design	minima
∞ tests	computer systems design	Cramer-Rao bounds
reactor technology	computers	Fourier-Bessel transformations
reactor technology		Green's functions
GS technologies	readout	hyperbolic functions
reactor technology	RT display devices	hyperplanes
RT annular core pulse reactors	multiple output programs	Jacobi integral
∞ engineering	output	Jacobi matrix method
engineering test reactors	printers (data processing)	kernel functions
Hanford reactors	printouts	Liapunov functions
high temperature nuclear reactors	remote consoles	linear equations
Joint European Torus	301100100	Ffowcs Williams-Hawkings
nuclear fuel burnup	reagents	equation
nuclear reactors	RT catalysts	linear evolution equations
nuclear research and test reactors	•	
offshore reactor sites	chemical analysis	Riccati equation
organic cooled reactors	chemical reactions	. Lipschitz condition
pebble bed reactors	reaction kinetics	measure and integration
		binary integration
reverse field pinch	real gases	Borel sets
vacatava	GS gases	functional integration
reactors	real gases	integral calculus
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	RT equations of state	J integral
LISTED BELOW)	gas density	Lebesgue theorem
RT annular core pulse reactors	ideal gas	numerical integration
chemical reactors	kinetic theory	Runge-Kutta method
5.15.1.154.1.5401010		Hango ratta motiloa

. . . Stieltjes integral receiver of a thermoelectric thermometer is the ∞ hollow . weighting functions measuring thermocouple. Instruments used to Neumann problem detect the presence and to determine the inforrecession .. nonlinear equations mation carried by electromagnetic radiation. Re-RT ∞ depression ... cubic equations ceivers include circuits designed to detect, ameconomics Duffing differential equation plify, rectify, and shape the incoming radio fre-. . . Monge-Ampere equation quency signals received at the antenna in such recharging The restoring of discharged electric ... nonlinear evolution equations a manner that the information containing com-DEF storage batteries to a charged condition by . . . quadratic equations ponent of the received energy can be delivered to the desired indicating of recording equipment. passing direct current through them in a direc-... quartic equations . . numerical differentiation tion opposite to that of the discharging current. Used for receiving systems. receiving systems RT charge efficiency . . periodic functions UF GS receivers . . . trigonometric functions reciprocal theorems . cosine series linear receivers . . . sine series logarithmic receivers GS theorems reciprocal theorems . . tangents radar receivers . . series (mathematics) . radio receivers angles (geometry) . asymptotic series . . superheterodyne receivers . . transmitter receivers geometry . . Campbell-Hausdorff series lines (geometry) points (mathematics) cosine series . whistler recorders . . . Fourier series projective geometry radiotelephones . Pade approximation television receivers reciprocating engines . power series amplifiers USE piston engines . . Taylor series ∞ detectors ... MacLaurin series display devices reciprocation progressions duplexers RT cycles . Prony series electric filters mechanical oscillators sine series instrument receivers piston engines Sturm-Liouville theory ∞ receiving pistons . . vector analysis repeaters . collinearity tanks (containers) reciprocity theorem . . . coplanarity teleprinters Any theorem expressing reciprocal re-... curl (vectors) teletypewriters lations for the behavior of some physical system . vorticity transmitters in which input and output can be interchanged . . Weierstrass functions without altering the response of the system to a . Whittaker functions ∞ receiving given excitation. aperiodic functions (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS SN GS theorems calculus LISTED BELOW) . reciprocity theorem Cholesky factorization reception acoustic scattering complex variables acquisition RT electromagnetic fields continuums collection electromagnetic scattering dependent variables delivery wave scattering differential calculus procurement factorization radar reception recirculation Fourier analysis radio reception USE circulation Hermitian polynomial receivers hyperspheres recognition recirculative fluid flow infinity signal reception fluid flow inflection points maximum principle television reception recirculative fluid flow backward facing steps monotone functions boundary layer flow boundary layer separation reversed flow receiving systems Schmidt method USE receivers stability derivatives uniqueness theorem receptacles (containers) turbulent flow  $\infty \, variable$ USE containers turbulent mixing vortices rearward facing steps reception USE backward facing steps USE receiving reclamation GS reclamation reattached flow reception diversity . materials recovery GS fluid flow space diversity . . gas recovery . viscous flow GS radio equipment . . nuclear fuel reprocessing . . boundary layer flow . . . reattached flow reception diversity . . solvolysis fading RT . water reclamation RT ∞ attachment radio antennas backward facing steps RT environmental cleanup radio receivers oil recovery boundary layer separation radio reception ∞ recovery Coanda effect Rayleigh fading recycling Crocco-Lee theory signal fading regeneration (engineering) flow characteristics waste management flow distribution receptors (physiology) separated flow DEF Sensory nerve endings or organs in a recognition living organism that is sensitive to physical or DEF The psychological process in which an reattachment chemical stimuli. observer so interprets the visual or auditory USE attachment GS receptors (physiology) stimuli he receives from a distant object that he baroreceptors forms a correct conclusion as to the exact nature RFR chemoreceptors of that object or sound. USE relativistic electron beams gravireceptors GS recognition . . otolith organs rebreathing . pattern recognition mechanoreceptors . . character recognition RT air purification carbon dioxide concentration carbon dioxide removal . . graphology . photoreceptors proprioceptors speech recognition expired air thermoreceptors . target recognition sense organs . timber identification life support systems sensitometry acquisition spacecraft cabin atmospheres consciousness crop identification receivers recesses identifying Initial components or sensing ele-RT cavities

crevasses

ments of measuring systems. For example, the

IFF systems (identification)

 $\infty$  interpretation ∞ hardware playbacks integrated circuits recording instruments memory receiving logic circuits registers (computers) remote sensing tape recorders VLF emission recorders reconnaissance recoil atoms GS reconnaissance . aerial reconnaissance recording GS atoms recoil atoms . . Airborne Integrated GS recording RT recoilings Reconnaissance System data recording data smoothing . photoreconnaissance recoil ions . magnetic recording spectral reconnaissance GS . photographic recording ions COSPAS recoil ions prediction recording Earth resources atomic collisions playbacks observation charge exchange patrols plotting electron scattering privacy . photogeology ∞ storage ion impact SarSat ion production rates searching recording heads ion scattering situational awareness ionic collisions RT data recording space observations (from Earth) magnetic recording recoilings space surveillance (spaceborne) magnetic tapes surveillance recoil protons recording instruments surveys GS tape recorders particles terrain analysis video equipment . charged particles . . protons reconnaissance aircraft recording instruments ... recoil protons Darkstar unmanned aerial vehicle . elementary particles UF emissographs reconnaissance aircraft . . fermions pluviographs A-9 aircraft . . . protons thermograms Breguet 1150 aircraft recording instruments ... recoil protons Cessna L-19 aircraft . bathythermographs RT baryons 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 particle motion . mechanograms weather reconnaissance aircraft . oscillographs recoil atoms 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 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 RT 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 flight instruments water takeoff and landing aircraft recombination reactions graphs (charts) YF-12 aircraft 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 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 RT aerial reconnaissance recommendations records artificial satellites GS documents suggestion manned orbital laboratories decision theory . records manned spacecraft general overviews . . video disks unmanned spacecraft RT case histories recompression ∞ data reconstruction USE compressing data processing reconstruction data recording image reconstruction reconfigurable hardware documentation wave front reconstruction (added September 2001) ∞ drawing RT construction 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) cable force recorders SN programmable logic devices
field-programmable gate arrays
evolvable hardware Presidential reports

RT

data recorders

privacy

reports

records management

RT chips (electronics)

	supplements		hypersonic vehicles	c	∞ separation
	technical writing		Inertial Upper Stage		
~	tests		interim stages (spacecraft)	rectang	
	texts		lifting reentry vehicles	GS	geometry
rocerdo	managament		maneuverable spacecraft		. Euclidean geometry
	: <b>management</b> ed August 1989)		manned spacecraft		polygons
	management		military spacecraft		tetragons <b>rectangles</b>
ao	. information management		rendezvous spacecraft space capsules	RT	rectangular planforms
	records management		∞ space capsules		rootangalar plantonno
RT	data management		spacecraft recovery	rectang	gular beams
	information resources management		unmanned spacecraft	GS	structural members
	information systems		∞ winged vehicles		. beams (supports)
	management information systems			DT	rectangular beams
	records	∞ recove	rv	RT	box beams
	ability	SN	(USE OF A MORE SPECIFIC TERM IS	rectano	ular coordinates
recover RT			RECOMMENDEDCONSULT THE TERMS		Cartesian coordinates
	damage assessment properties	RT	LISTED BELOW) booster recovery	OOL	Cartesian coordinates
	recovery	1111	gas recovery	rectang	ıular drainage
	recovery		loop transfer recovery	USE	drainage patterns
recover	able launch vehicles		materials recovery		
GS	launch vehicles		nuclear fuel reprocessing		gular panels
	. recoverable launch vehicles		oil recovery	GS	panels
RT	booster recovery		pressure recovery		. rectangular panels
	launch vehicle configurations		reclamation		planforms
	multiengine vehicles		recoverability		. rectangular planforms rectangular panels
~	recovery		recoverable launch vehicles	RT	strakes
	recovery parachutes		recovery parachutes		structural members
	reusable launch vehicles		retrieval		wing panels
	vehicles		reuse		g paneis
~	winged vehicles		spacecraft recovery	rectang	gular planforms
	X-33 reusable launch vehicle X-34 reusable launch vehicle		stress relaxation	GS	planforms
	A-54 reusable laurion verilole		stress relieving visual discrimination		. rectangular planforms
recovera	able satellites		visual discrimination		rectangular panels
	recoverable spacecraft				rectangular plates
			ry parachutes		rectangular wings
recover	able spacecraft	GS	parachutes	RT	rectangles
UF	recoverable satellites	DT	. recovery parachutes		wing planforms
GS	reentry vehicles	RT	booster recovery Discoverer recovery capsules	rootane	gular plates
	. recoverable spacecraft		recoverable launch vehicles	GS	planforms
	Apollo spacecraft		∞ recovery	ao	. rectangular planforms
	Apollo lunar experiment module		ribbon parachutes		rectangular plates
	Astro vehicle		spacecraft recovery		structural members
	Gemini B spacecraft		opaccolait record,		. plates (structural members)
	Gemini spacecraft				. rectangular plates
	Gemini 2 spacecraft		ry vehicles (EXCLUDES RECOVERABLE VEHICLES)	RT	flat plates
	Gemini (GT-1) spacecraft	GS	recovery vehicles		metal plates
	Mercury spacecraft Aurora 7		. Assured Crew Return Vehicle	c	∞ plates
	Faith 7		. X-38 crew return vehicle		
	Friendship 7	RT	helicopters		gular waveguides
	SIGMA 7		∞ military vehicles	GS	waveguides
	reusable spacecraft		trucks	DT	. rectangular waveguides beam waveguides
	aerospace planes		∞ vehicles	RT	3.
	HOPE aerospace plane				microwave filters
	HOTOL launch vehicle	recove	ry zones	rectano	gular wind tunnels
	VentureStar launch vehicle	RT	downrange		test facilities
	X-30 vehicle		landing sites		. wind tunnels
	X-37 vehicle		reentry range		rectangular wind tunnels
	X-40A vehicle		regions	RT	subsonic wind tunnels
	MARS (Manned Reusable		spacecraft recovery		
	Spacecraft)				gular wings
	single stage to orbit vehicles Delta Clipper	recreat	ion	UF	straight wings
	HOTOL launch vehicle	RT	morale	GS	airfoils
	space shuttles		parks		. wings
	Buran space shuttle		relaxation (physiology)		unswept wings <b>rectangular wings</b>
	Hermes manned spaceplane		rest		planforms
	Space Shuttle orbiters		Starsite program		. rectangular planforms
	Atlantis (orbiter)		tourism		rectangular wings
	Challenger (Orbiter)		urban planning		
	Columbia (Orbiter)		urban research	rectenr	nas
	Discovery (Orbiter)			DEF	Devices that convert microwave en-
	Endeavour (orbiter)	•	allization		o direct-current power by utilizing a num-
	Enterprise (Orbiter)	DEF	In metals, the change from one crystal		small diodes each with its own diode
	voskhod manned spacecraft		e to another, as occurs on heating or		. Used for rectifier antennas.
	Voskhod 1 spacecraft		through a critical temperature. The for-	UF	rectifier antennas
	Voskhod 2 spacecraft		of a new strain free grain structure from	GS	antennas
	Vostok spacecraft		sting in cold worked metal, usually ac-		. radio antennas
	Vostok 1 spacecraft		hed by heating.		microwave antennas
	Vostok 2 spacecraft	GS	crystallization		rectennas
	Vostok 3 spacecraft	DT	. recrystallization		microwave equipment
	Vostok 4 spacecraft Vostok 5 spacecraft	RT	annealing heat treatment		. microwave antennas
	Vostok 6 spacecraft		laser annealing		radio equipment
RT	booster rocket engines		∞ metallurgy		. radio antennas
	boostglide vehicles	`	nucleation		microwave antennas
	expendable stages (spacecraft)		polygonization		rectennas
	,		1 70		· · · · · · <del>·</del>

DT			
RT	satellite power transmission solar radiation	auroral ionization	at the anode in a conventional manner and is regenerated by reaction with a primary fuel.
	spacetennas	red blood cells	GS electrochemical cells
		USE erythrocytes	. electric batteries
rectifica			Redox cells
GS	rectification	red dwarf stars	RT electrochemistry
RT ~	. geometric rectification (imagery) condensation	DEF Red stars of low luminosity, so nated by E. Hertzsprung. Red Dwarf sta	
пι ∘	distillation	commonly those main sequence stars	
	purification	than an absolute magnitude of plus 1, a	
	refining	the faintest and coolest of the dwarfs.	raduand gravity
		GS celestial bodies	reduced gravity USE microgravity
	antennas rectennas	. stars main sequence stars	ool moregravity
USL	recterinas	dwarf stars	radicand instruction and commuting
rectifie	s	red dwarf stars	reduced instruction set computing USE RISC processors
SN	(EXCLUDES PHOTOGRAPHIC	RT hot stars	OOL THOO processors
DEF	RECTIFIER) Static devices having an asymmetrical	late stars	made and and an Albana
	on characteristic which is used to con-	massive compact halo objects stellar luminosity	reduced order filters  GS linear filters
	nding current into direct current.	stellar magnitude	. reduced order filters
GS	rectifiers	subdwarf stars	RT electric filters
	. avalanche diodes	supernova remnants	∞ filters
	. cryosar . crystal rectifiers	white dwarf stars	Kalman filters
	. germanium diodes	red giant stars	navigation aids
	. ignitrons	DEF Stars whose evolution has prog	ressed
	. thyratrons	to the point where hydrogen core burning	ng has ∞ <b>reduction</b>
	. thyristors	been completed, the helium core has b	
RT	silicon controlled rectifiers Barritt diodes	denser and hotter than originally, and the	e enve- LISTED BELOW)
п	current converters (AC to DC)	lope has expanded to perhaps 100 tin initial size.	3
	diodes	GS celestial bodies	diminution shortening
	electron tubes	. stars	RT attenuation
0	energy sources	giant stars	cleaning
	form factors	red giant stars	comminution
	ITO (semiconductors) mercury arcs	carbon stars  RT asymptotic giant branch stars	contraction
	metal oxide semiconductors	RT asymptotic giant branch stars late stars	damping data reduction
0	power supplies	M stars	deceleration
	power supply circuits	Mira variables	decontamination
	semiconductor devices solid state devices	S stars	demagnetization
	thin films	stellar evolution	deoxygenation
		stellar luminosity	depletion
rectum		Red Sea	depolarization dilution
rectum GS	anatomy	GS seas	
	. digestive system	GS seas . <b>Red Sea</b>	dil <sup>u</sup> tion dimming dispersing
	. digestive system gastrointestinal system	GS seas . <b>Red Sea</b> RT Africa	dilution dimming dispersing dissipation
	. digestive system	GS seas . <b>Red Sea</b>	dilution dimming dispersing dissipation drag reduction
	<ul><li>. digestive system</li><li>. gastrointestinal system</li><li> intestines</li></ul>	GS seas . <b>Red Sea</b> RT Africa	dilution dimming dispersing dissipation
GS recuper	digestive system gastrointestinal system intestines rectum	GS seas Red Sea RT Africa Asia  red shift DEF In astronomy, the displacement	dilution dimming dispersing dissipation drag reduction elimination friction reduction of ob- hydrogenolysis
GS recuper	. digestive system . gastrointestinal system intestines rectum	GS seas Red Sea RT Africa Asia  red shift DEF In astronomy, the displacement served spectral lines toward the longer	dilution dimming dispersing dissipation drag reduction elimination friction reduction of ob- hydrogenolysis wave-  dilution
GS recuper USE	digestive system gastrointestinal system intestines rectum	GS seas Red Sea RT Africa Asia  red shift DEF In astronomy, the displacement served spectral lines toward the longer lengths of the red end of the spectrum.	dilution dimming dispersing dispersing dissipation drag reduction elimination friction reduction hydrogenolysis wave-  inhibition iodimetry
recuper USE recursio	digestive system gastrointestinal system intestines rectum	GS seas Red Sea RT Africa Asia  red shift DEF In astronomy, the displacement served spectral lines toward the longer	dilution dimming dispersing dissipation drag reduction elimination friction reduction of ob- wave-  ionibition iodimetry leakage
recuper USE recursio USE	digestive system gastrointestinal system intestines rectum ators regenerators reformulas recursive functions	GS seas . Red Sea RT Africa Asia  red shift DEF In astronomy, the displacement served spectral lines toward the longer lengths of the red end of the spectrum. RT blue shift	dilution dimming dispersing dispersing dissipation drag reduction elimination friction reduction hydrogenolysis wave- ∞ inhibition iodimetry
recuper USE recursio USE recursiv	digestive system gastrointestinal system dintestines rectum ators regenerators reformulas recursive functions e filters	GS seas Red Sea RT Africa Asia  red shift DEF In astronomy, the displacement served spectral lines toward the longer lengths of the red end of the spectrum. RT blue shift cosmology Doppler effect Doppler-Fizeau effect	dilution dimming dispersing dissipation drag reduction elimination friction reduction hydrogenolysis  wave-  ∞ inhibition iodimetry leakage metal working
recuper. USE recursic USE recursiv (addd	digestive system gastrointestinal system diters regenerators recursive functions e filters and December 2002)	GS seas . Red Sea RT Africa Asia  red shift DEF In astronomy, the displacement served spectral lines toward the longer lengths of the red end of the spectrum. RT blue shift cosmology Doppler effect Doppler-Fizeau effect galaxies	dilution dimming dispersing dissipation drag reduction elimination friction reduction hydrogenolysis wave- ∞ inhibition iodimetry leakage metal working noise reduction optimization pressure reduction
recuper. USE recursic USE recursiv (addd	digestive system gastrointestinal system dintestines rectum ators regenerators reformulas recursive functions e filters	GS seas Red Sea RT Africa Asia  red shift DEF In astronomy, the displacement served spectral lines toward the longer lengths of the red end of the spectrum. RT blue shift cosmology Doppler effect Doppler-Fizeau effect galaxies Hubble constant	dilution dimming dispersing dissipation drag reduction elimination friction reduction hydrogenolysis  iodimetry leakage metal working noise reduction optimization pressure reduction prevention
recuper. USE recursio USE recursiv (adde	digestive system gastrointestinal system diters regenerators recursive functions e filters and December 2002)	GS seas . Red Sea RT Africa Asia  red shift DEF In astronomy, the displacement served spectral lines toward the longer lengths of the red end of the spectrum. RT blue shift cosmology Doppler effect Doppler-Fizeau effect galaxies	dilution dimming dispersing dissipation drag reduction elimination friction reduction hydrogenolysis  ∞ inhibition iodimetry leakage metal working noise reduction optimization pressure reduction prevention purification
recuper. USE recursio USE recursiv (adda USE recursiv	digestive system gastrointestinal system directions recum  ators regenerators n formulas recursive functions e filters d December 2002) IIR filters recursion formulas	GS seas Red Sea RT Africa Asia  red shift DEF In astronomy, the displacement served spectral lines toward the longer lengths of the red end of the spectrum. RT blue shift cosmology Doppler effect Doppler-Fizeau effect galaxies Hubble constant Hubble diagram	dilution dimming dispersing dissipation drag reduction elimination friction reduction hydrogenolysis  iodimetry leakage metal working noise reduction optimization pressure reduction prevention
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recuper. USE recursiv (addd. USE recursiv USE recursiv USE	digestive system gastrointestinal system intestines intestines rectum  ators regenerators recursive functions e filters ad December 2002) IIR filters recursion formulas functions (mathematics) recursive functions	GS seas Red Sea RT Africa Asia  red shift DEF In astronomy, the displacement served spectral lines toward the longer lengths of the red end of the spectrum. RT blue shift cosmology Doppler effect Doppler-Fizeau effect galaxies Hubble constant Hubble diagram irregular galaxies radial velocity  red sprites	dilution dimming dispersing dissipation drag reduction elimination friction reduction hydrogenolysis  ionimetry leakage metal working noise reduction optimization pressure reduction purification reduction (chemistry) refining relaxation (mechanics) removal
recuper. USE recursio USE recursiv (adda USE recursiv	digestive system gastrointestinal system intestines intestines rectum  ators regenerators recursive functions retillers	GS seas Red Sea RT Africa Asia  red shift  DEF In astronomy, the displacement served spectral lines toward the longer lengths of the red end of the spectrum.  RT blue shift cosmology Doppler effect Doppler-Fizeau effect galaxies Hubble constant Hubble diagram irregular galaxies radial velocity  red sprites (added January 2000)	dilution dimming dispersing dispersing dissipation drag reduction elimination friction reduction hydrogenolysis  inhibition iodimetry leakage metal working noise reduction optimization pressure reduction purification reduction (chemistry) refining relaxation (mechanics) removal retarding
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recuper. USE recursiv (addd USE recursiv UF GS RT	digestive system gastrointestinal system historines his	GS seas Red Sea RT Africa Asia  red shift DEF In astronomy, the displacement served spectral lines toward the longer lengths of the red end of the spectrum. RT blue shift cosmology Doppler effect Doppler-Fizeau effect galaxies Hubble constant Hubble diagram irregular galaxies radial velocity  red sprites (added January 2000) USE sprites (atmospheric physics)  red tide RT fishes marine environments microorganisms	dilution dimming dispersing dispersing dissipation drag reduction elimination friction reduction hydrogenolysis  inhibition iodimetry leakage metal working noise reduction optimization pressure reduction purification reduction (chemistry) refining relaxation (mechanics) removal retarding shrinkage sidelobe reduction stopping
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recuper. USE recursiv (addd USE recursiv UF GS RT	digestive system gastrointestinal system dators rectum  ators regenerators  formulas recursive functions  e filters d December 2002) IIR filters  recursion formulas functions recursion formulas functions (mathematics) recursion functions IIR filters IIR filters IIR filters IIR filters  LISP (programming language) strange attractors  g economy extraction materials recovery nuclear fuel reprocessing	GS seas Red Sea RT Africa Asia  red shift DEF In astronomy, the displacement served spectral lines toward the longer lengths of the red end of the spectrum. RT blue shift cosmology Doppler effect Doppler-Fizeau effect galaxies Hubble constant Hubble diagram irregular galaxies radial velocity  red sprites (added January 2000) USE sprites (atmospheric physics)  red tide RT fishes marine environments microorganisms oceanography plankton	dilution dimming dispersing dissipation drag reduction elimination friction reduction hydrogenolysis inhibition iodimetry leakage metal working noise reduction optimization pressure reduction purification reduction (chemistry) refining relaxation (mechanics) removal retarding shrinkage sidelobe reduction stopping tapering  reduction (chemistry) GS chemical reactions reduction (chemistry) GS chemical reactions reduction (chemistry)
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recuper. USE recursiv (addd USE recursiv UF GS RT	digestive system gastrointestinal system intestines intestines rectum  ators regenerators regenerators recursive functions retiliters retiliters retiliters recursion formulas functions recursion formulas functions recursive functions FIR filters LISP (programming language) strange attractors  reconomy extraction materials recovery nuclear fuel reprocessing reclamation refining	GS seas Red Sea RT Africa Asia  red shift DEF In astronomy, the displacement served spectral lines toward the longer lengths of the red end of the spectrum. RT blue shift cosmology Doppler effect Doppler-Fizeau effect galaxies Hubble constant Hubble diagram irregular galaxies radial velocity  red sprites (added January 2000) USE sprites (atmospheric physics)  red tide RT fishes marine environments microorganisms oceanography plankton sea water toxicology  Redeye missile	dilution dimming dispersing dispersing dissipation drag reduction elimination friction reduction hydrogenolysis  inhibition iodimetry leakage metal working noise reduction optimization pressure reduction prevention purification reduction (chemistry) refining relaxation (mechanics) removal retarding shrinkage sidelobe reduction stopping tapering  reduction (chemistry)  GS chemical reactions reduction (chemistry) . deoxidizing . hydrogenation
recuper. USE recursiv (addd USE recursiv UF GS RT	digestive system gastrointestinal system intestines intestines rectum  ators regenerators regenerators recursive functions retiliters retiliters recursive functions recursion formulas functions recursion formulas functions (mathematics) recursive functions FIR filters LISP (programming language) strange attractors  g reconomy recursing recovery recursing recovery recursing recovery recursing recovery reclamation	GS seas Red Sea RT Africa Asia  red shift DEF In astronomy, the displacement served spectral lines toward the longer lengths of the red end of the spectrum. RT blue shift cosmology Doppler effect Doppler-Fizeau effect galaxies Hubble constant Hubble diagram irregular galaxies radial velocity  red sprites (added January 2000) USE sprites (atmospheric physics)  red tide RT fishes marine environments microorganisms oceanography plankton sea water toxicology  Redeye missile	dilution dimming dispersing dissipation drag reduction elimination friction reduction hydrogenolysis ∞ inhibition iodimetry leakage metal working noise reduction optimization pressure reduction prevention purification reduction (chemistry) refining relaxation (mechanics) removal retarding shrinkage sidelobe reduction spin reduction spin reduction stopping tapering  reduction (chemistry) GS chemical reactions reduction (chemistry) . reduction (chemistry) . deoxidizing
recuper. USE recursiv (addd USE recursiv UF GS RT	digestive system gastrointestinal system historines his	GS seas Red Sea RT Africa Asia  red shift DEF In astronomy, the displacement served spectral lines toward the longer lengths of the red end of the spectrum. RT blue shift cosmology Doppler effect Doppler-Fizeau effect galaxies Hubble constant Hubble diagram irregular galaxies radial velocity  red sprites (added January 2000) USE sprites (atmospheric physics) red tide RT fishes marine environments microorganisms oceanography plankton sea water toxicology  Redeye missile GS missiles . Redeye missiles . Redeye missile	dilution dimming dispersing dissipation drag reduction elimination friction reduction hydrogenolysis inhibition iodimetry leakage metal working noise reduction optimization pressure reduction prification reduction (chemistry) refining relaxation (mechanics) removal retarding shrinkage sidelobe reduction spin reduction spin reduction stopping tapering  reduction (chemistry) GS chemical reactions . reduction (chemistry) . deoxidizing . hydrogenation RT ∞ chemistry dehydrogenation electrodeposition
recuper. USE recursiv (addd USE recursiv UF GS RT	digestive system gastrointestinal system intestines intestines rectum  ators regenerators regenerators recursive functions retillers recursive functions retillers recursion formulas recursion formulas functions (mathematics) recursive functions FIR filters IIR filters IIR filters LISP (programming language) strange attractors  g economy extraction materials recovery nuclear fuel reprocessing reclamation refining resources solvolysis	GS seas Red Sea RT Africa Asia  red shift DEF In astronomy, the displacement served spectral lines toward the longer lengths of the red end of the spectrum. RT blue shift cosmology Doppler effect Doppler-Fizeau effect galaxies Hubble constant Hubble diagram irregular galaxies radial velocity  red sprites (added January 2000) USE sprites (atmospheric physics)  red tide RT fishes marine environments microorganisms oceanography plankton sea water toxicology  Redeye missile GS missiles . antiaircraft missiles . Redeye missile . surface to air missiles	dilution dimming dispersing dispersing dissipation drag reduction elimination friction reduction hydrogenolysis  inhibition iodimetry leakage metal working noise reduction optimization pressure reduction prevention purification reduction (chemistry) refining relaxation (mechanics) removal retarding shrinkage sidelobe reduction spin reduction spin reduction stopping tapering  reduction (chemistry) . deoxidizing . hydrogenation RT chemistry dehydrogenation electrodeposition electrolysis
recuper. USE recursiv (addd. USE recursiv GS RT  recyclir RT	digestive system gastrointestinal system intestines intestines rectum  ators regenerators recursive functions recursive functions recursive functions recursion formulas functions recursion formulas functions (mathematics) recursive functions FIR filters LISP (programming language) strange attractors  g economy extraction materials recovery nuclear fuel reprocessing processing processing resources solvolysis spent fuels waste management	GS seas Red Sea RT Africa Asia  red shift DEF In astronomy, the displacement served spectral lines toward the longer lengths of the red end of the spectrum. RT blue shift cosmology Doppler-Fizeau effect Doppler-Fizeau effect galaxies Hubble constant Hubble diagram irregular galaxies radial velocity  red sprites (added January 2000) USE sprites (atmospheric physics)  red tide RT fishes marine environments microorganisms oceanography plankton sea water toxicology  Redeye missile GS missiles . antiaircraft missiles . Redeye missile . surface to air missiles . Redeye missile . Redeye missile	dilution dimming dispersing dispersing dissipation drag reduction elimination friction reduction hydrogenolysis  inhibition iodimetry leakage metal working noise reduction optimization pressure reduction prevention purification reduction (chemistry) refining relaxation (mechanics) removal retarding shrinkage sidelobe reduction spin reduction stopping tapering  reduction (chemistry)  GS chemical reactions . reduction . reduction (chemistry) . deoxidizing . hydrogenation  RT ∞ chemistry dehydrogenation electrodeposition electrodeposition electrodeposition electrolysis metal powder
recuper. USE recursio USE recursio (addd USE recursio RT  recyclir RT	digestive system gastrointestinal system intestines intestines rectum  ators regenerators regenerators recursive functions retillers recursive functions recursion formulas functions recursion formulas functions (mathematics) recursive functions FIR filters IIR filters IIR filters IIR filters IIR filters recursive functions r	GS seas Red Sea RT Africa Asia  red shift DEF In astronomy, the displacement served spectral lines toward the longer lengths of the red end of the spectrum. RT blue shift cosmology Doppler effect Doppler-Fizeau effect galaxies Hubble constant Hubble diagram irregular galaxies radial velocity  red sprites (added January 2000) USE sprites (atmospheric physics)  red tide RT fishes marine environments microorganisms oceanography plankton sea water toxicology  Redeye missile GS missiles . antiaircraft missiles . Redeye missile . surface to air missiles	dilution dimming dispersing dispersing dissipation drag reduction elimination friction reduction hydrogenolysis  inhibition iodimetry leakage metal working noise reduction optimization pressure reduction purification reduction (chemistry) refining relaxation (mechanics) removal retarding shrinkage sidelobe reduction spin reduction stopping tapering  reduction (chemistry) GS chemical reactions reduction reduction (chemistry) GS chemical reactions reduction spin reduction stopping tapering  reduction (chemistry) depending  reduction RT ∞ chemistry dehydrogenation electrodeposition electrodeposition electrolysis metal powder oxidation
recuper. USE recursiv (addd. USE recursiv GS RT  recyclir RT	digestive system gastrointestinal system intestines intestines rectum  ators regenerators recursive functions recursive functions recursive functions recursion formulas functions recursion formulas functions (mathematics) recursive functions FIR filters LISP (programming language) strange attractors  g economy extraction materials recovery nuclear fuel reprocessing processing processing resources solvolysis spent fuels waste management	GS seas Red Sea RT Africa Asia  red shift DEF In astronomy, the displacement served spectral lines toward the longer lengths of the red end of the spectrum. RT blue shift cosmology Doppler-Fizeau effect Doppler-Fizeau effect galaxies Hubble constant Hubble diagram irregular galaxies radial velocity  red sprites (added January 2000) USE sprites (atmospheric physics)  red tide RT fishes marine environments microorganisms oceanography plankton sea water toxicology  Redeye missile GS missiles . antiaircraft missiles . Redeye missile . surface to air missiles . Redeye missile . Redeye missile	dilution dimming dispersing dispersing dissipation drag reduction elimination friction reduction hydrogenolysis  inhibition iodimetry leakage metal working noise reduction optimization pressure reduction prevention purification reduction (chemistry) refining relaxation (mechanics) removal retarding shrinkage sidelobe reduction spin reduction stopping tapering  reduction (chemistry)  GS chemical reactions . reduction . reduction (chemistry) . deoxidizing . hydrogenation  RT ∞ chemistry dehydrogenation electrodeposition electrodeposition electrodeposition electrolysis metal powder
recuper. USE recursio USE recursio (addd USE recursio RT  recyclir RT	digestive system gastrointestinal system intestines intestines rectum  ators regenerators regenerators recursive functions retiliters retiliter	GS seas Red Sea RT Africa Asia  red shift DEF In astronomy, the displacement served spectral lines toward the longer lengths of the red end of the spectrum. RT blue shift cosmology Doppler effect Doppler-Fizeau effect galaxies Hubble constant Hubble diagram irregular galaxies radial velocity  red sprites (added January 2000) USE sprites (atmospheric physics)  red tide RT fishes marine environments microorganisms oceanography plankton sea water toxicology  Redeye missile GS missiles . antiaircraft missiles . Redeye missile . surface to air missiles . Redeye missile RT solid propellant rocket engines  Redox cells DEF Cells for converting the energy	dilution dimming dispersing dispersing dissipation drag reduction elimination friction reduction hydrogenolysis  inhibition iodimetry leakage metal working noise reduction optimization pressure reduction prevention purification reduction (chemistry) refining relaxation (mechanics) removal retarding shrinkage sidelobe reduction spin reduction spin reduction stopping tapering  reduction (chemistry)  GS chemical reactions reduction (chemistry) ∴ deoxidizing ∴ hydrogenation RT ∞ chemistry dehydrogenation electrodeposition electrodeposition electrolysis metal powder oxidation oxidation-reduction reactions purification  ox of re-  ∞ reduction  ∞ reduction  ∞ reduction  ∞ reduction
recuper. USE recursio USE recursio USE recursio RT recyclir RT recyclir RT	digestive system gastrointestinal system intestines intestines rectum  ators regenerators  Informulas recursive functions  et filters ad December 2002) IIR filters recursion formulas functions recursion formulas functions (mathematics) recursive functions FIR filters IIIR filters LISP (programming language) strange attractors  gg economy extraction materials recovery nuclear fuel reprocessing reclamation refining resources solvolysis spent fuels waste management  atmospheric radiation auroras	GS seas Red Sea RT Africa Asia  red shift DEF In astronomy, the displacement served spectral lines toward the longer lengths of the red end of the spectrum. RT blue shift cosmology Doppler effect Doppler-Fizeau effect galaxies Hubble constant Hubble diagram irregular galaxies radial velocity  red sprites (added January 2000) USE sprites (atmospheric physics)  red tide RT fishes marine environments microorganisms oceanography plankton sea water toxicology  Redeye missile GS missiles . Redeye missile . Redeye missile . Redeye missile RT solid propellant rocket engines  Redox cells	dilution dimming dispersing dispersing dissipation drag reduction elimination friction reduction hydrogenolysis  inhibition iodimetry leakage metal working noise reduction optimization pressure reduction purification reduction (chemistry) refining relaxation (mechanics) removal retarding shrinkage sidelobe reduction spin reduction stopping tapering  reduction (chemistry)  GS chemical reactions reduction reduction stopping tapering  reduction RT ∞ chemistry dehydrogenation electrodeposition

trichloroethylene	action involved in		RT	missile ranges
	GS atmosp			recovery zones
reduction (mathematics)	. reentr			
USE optimization	hype	rbolic reentry		shielding
	hype	rsonic reentry	GS	shielding
redundancy	unc	ontrolled reentry (spacecraft)		. heat shielding
DEF The existence of more than one means		ned reentry		. reentry shielding
of accomplishing a given task, where all means		ecraft reentry	RT	ablation
must fail before there is an overall failure of the		ontrolled reentry (spacecraft)		ablative nose cones
system.	RT ablation			aerodynamic heating
RT assurance				aerothermochemistry
communication theory		amic heating		heat sinks
		amic stability		
computer program integrity	aerodyr		~	insulated structures
correction		rmodynamics		Ludox (trademark)
error detection codes	descent			nose cones
information theory	descent	trajectories		reusable heat shielding
reliability	∞ entry			spacecraft shielding
	flight pa	ths		thermal control coatings
redundancy encoding	0 1	prediction		thermal insulation
GS coding		entry vehicles		thermal protection
. redundancy encoding		ervable reentry vehicles		·
RT concatenated codes	missiles		reentry	trajectories
data transmission				Those parts of rocket trajectories that
error correcting codes	∞ rockets			t reentry and end at target or at the
	space fl	9	surface.	recently and end at target of at the
error correcting devices	termina	guidance		trainatarias
error detection codes			GS	trajectories
Reed-Solomon codes	reentry bodies			descent trajectories
repetition	USE reentry	vehicles		reentry trajectories
signal encoding	•		RT	circumlunar trajectories
	reentry breakup			flight mechanics
redundant components	USE spacec	raft breakup		hyperbolic reentry
UF redundant structures				missile trajectories
RT backups	reentry commu	nication		moon-Earth trajectories
∞ components	GS telecom			spacecraft trajectories
reliability		communication		terminal guidance
spare parts				torrillar gardarioo
• •		ecraft communication	reentry	vehicles
∞ structures		ntry communication		Any payload carrying vehicles de-
d d d d		t (propagation)		
redundant structures		I reentry		o leave the sensible atmosphere and
USE redundant components	plasma	sheaths		urn through it to Earth. Used for reentry
	radio co	mmunication	bodies.	
reeds (plants)	voice co	mmunication	UF	reentry bodies
GS plants (botany)			GS	reentry vehicles
. grasses	reentry decoys			. boostglide vehicles
reeds (plants)	GS counter	measures		X-20 aircraft
		y decoys		. low observable reentry vehicles
Reed-Solomon codes	decoys	, 2000,0		. maneuverable reentry bodies
(added June 1992)		y decoys		lifting reentry vehicles
UF RS codes		vehicles		FDL-5 reentry vehicle
GS error correcting codes				HL-10 reentry vehicle
		y decoys		•
. Reed-Solomon codes		missile decoys		HLD-35 reentry vehicle
RT bit error rate	missile	detense		Janus spacecraft
∞ codes				M-2 lifting body
coding	reentry effects			M-2F2 lifting body
concatenated codes	RT ablation			X-20 aircraft
decoders	aerodyr	amic heating		X-24 aircraft
redundancy encoding		t (propagation)		. Mark 1 reentry body
signal encoding	∞ effects	· (FF G)		. Mark 2 reentry body
gg		nic reentry		. Mark 3 reentry body
reefs	,,	sheaths		. Mark 4 reentry body
		aft breakup		. Mark 5 reentry body
at or near the surface of water.	tempera	ture effects		. Mark 6 reentry body
GS landforms				. Mark 11 reentry body
. barriers (landforms)	reentry gliders			. Mark 12 reentry body
reefs	USE lifting r	eentry vehicles		. Mark 17 reentry body
RT atolls				. recoverable spacecraft
bars (landforms)	reentry guidance			. Apollo spacecraft
coral reefs		e (motion)		Apollo lunar experiment module
island arcs		y guidance		Astro vehicle
islands		tic control		Gemini B spacecraft
oceanography		trajectories		Gemini b spacecraft
rocks		guidance		Gemini 2 spacecraft
sands	manual			Gemini (GT-1) spacecraft
shallow water		guidance		Mercury spacecraft
∞ shelves		aft guidance		Aurora 7
shoals	termina	guidance		Faith 7
				Friendship 7
reels	reentry physics			SIGMA 7
RT cables (ropes)	RT ablation			reusable spacecraft
∞ containers		rmochemistry		aerospace planes
magnetic tapes	aerotne	rmodynamics		HOPE aerospace plane
• •		nic reentry		HOTOL launch vehicle
spools	hyperso			VentureStar launch vehicle
spools tethered balloons	hyperso low obs	ervable reentry vehicles		
spools	hyperso	ervable reentry vehicles		X-30 vehicle
spools tethered balloons	hyperso low obs ∞ physics	ervable reentry vehicles sheaths		
spools tethered balloons tethered satellites	hyperso low obs ∞ physics	•		X-30 vehicle X-37 vehicle
spools tethered balloons tethered satellites tethering	hyperso low obs ∞ physics plasma	•		X-30 vehicle X-37 vehicle X-40A vehicle
spools tethered balloons tethered satellites tethering reentry	hyperso low obs ∞ physics plasma ∞ science	•		X-30 vehicle X-37 vehicle X-40A vehicle MARS (Manned Reusable
spools tethered balloons tethered satellites tethering  reentry DEF The event occurring when a spacecraft	hyperso low obs ∞ physics plasma ∞ science reentry range	sheaths		X-30 vehicle X-37 vehicle X-40A vehicle MARS (Manned Reusable Spacecraft)
spools tethered balloons tethered satellites tethering reentry	hyperso low obs ∞ physics plasma ∞ science reentry range GS distance	sheaths		X-30 vehicle X-37 vehicle X-40A vehicle MARS (Manned Reusable

	HOTOL launch vehicle		. refilling		reflected rays
	space shuttles	RT ∝	oloading	RT	corpuscular radiation
	Buran space shuttle		replenishment		elastic waves
	Hermes manned spaceplane	refining	i		electromagnetic radiation
	Space Shuttle orbiters	GS			evanescent waves
	Atlantis (orbiter) Challenger (Orbiter)	ao	. electrorefining		incident radiation optical reflection
	Columbia (Orbiter)		. electroslag refining		photon beams
	Discovery (Orbiter)	RT	alkylation	∞	radiation
	Endeavour (orbiter)		beneficiation		refracted waves
	Enterprise (Orbiter)		chemical fractionation		retroreflection
	voskhod manned spacecraft		clean fuels		wave reflection
	Voskhod 1 spacecraft		cleaning		
	Voskhod 2 spacecraft	~	conversion		ng telescopes
	Vostok spacecraft		crystallization		Telescopes which collect light by
	Vostok 1 spacecraft		desulfurizing dewaxing		of concave mirrors.
	Vostok 2 spacecraft		distillation	GS	telescopes . reflecting telescopes
	Vostok 3 spacecraft Vostok 4 spacecraft		drop transfer		Large Deployable Reflector
	Vostok 5 spacecraft		energy policy		Starsat telescope
	Vostok 6 spacecraft		enrichment	RT	Cassegrain optics
	. reentry decoys		extraction		honeycomb mirrors
	. Trailblazer 1 reentry vehicle		fractionation		mirrors
	Trailblazer 2 reentry vehicle		hydrogenation		optical equipment
	. X-17 reentry vehicle		hydrometallurgy		optical measuring instruments
RT	ablative nose cones		isomerization		paraboloid mirrors
	aeroshells		materials recovery		reflectors
	aerothermochemistry		polymerization		Schmidt telescopes
	Athena rocket vehicle	~	processing purification		segmented mirrors
٥	<ul> <li>ballistic vehicles</li> <li>bluff bodies</li> </ul>		pyrometallurgy		spectroscopic telescopes stratoscope telescopes
	obdies obdies		rectification		stratoscope telescopes
0	ferry spacecraft		recycling	reflection	on
٥	∘ flight vehicles	~	reduction		The process whereby a surface of dis
	hypersonic vehicles		separation		ty turns back a portion of the inciden
0	∘ insulated structures		smelting		into the medium through which the
	landing modules		sublimation		n approached.
	lifting bodies		upgrading	GS	reflection
	maneuverable spacecraft		zone melting		. infrared reflection
	missiles	vefleete			. optical reflection
	nose cones	reflecta	The ratio of the radiant flux reflected by		. retroreflection
	pyramidal bodies		to that incident upon it. Used for reflec-		. signal reflection . specular reflection
٥	orockets		fficient and reflectivity.		. spread reflection
	space capsules spacecraft	UF	reflection coefficient		. ultraviolet reflection
	spacecraft configurations		reflectivity		. wave reflection
	terminal guidance	GS	electromagnetic properties		Mach reflection
	test vehicles		. optical properties	RT	bidirectional reflectance
٥	∘ vehicles		reflectance		Brewster angle
	⋄ winged vehicles		bidirectional reflectance		deflection
	_		spectral reflectance		diffusion
	ce atmospheres	RT	absorptance		echelette gratings
UF	standard atmospheres		albedo		echelle gratings
GS	models		attenuation coefficients birefringence		electromagnetic absorption
	. atmospheric models		bistatic reflectivity		electromagnetic radiation impingement
	reference atmospheres		brightness		Lambert surface
	standards . reference atmospheres		coarseness		light (visible radiation)
	. reference aumospheres		cosmic ray albedo	∞	optics
referen	ce stars		Earth albedo		reflectance
	celestial bodies		flow coefficients		refraction
	. stars		geometrical theory of diffraction		scattering
	reference stars		luster		transmission
RT	astronomical coordinates		MISR (radiometry)		zero sound
	astronomical photography		optical measurement	rofloatio	n acofficient
	celestial navigation		optical reflection		n coefficient reflectance
	laser guide stars		photometry ray tracing	USE	reflectance
	navigation aids		reflection	reflectio	on nebulae
	space navigation		reflectometers		Any celestial body having a haz
unfaun.	an avatama		surface properties		appearance whose brightness results
∞ releten	(USE OF A MORE SPECIFIC TERM IS		surface roughness effects		scattering by dust particles of light fron
SIN	RECOMMENDEDCONSULT THE TERMS		thermochromic coatings	nearby s	
БТ	LISTED BELOW)		transmittance	GS	celestial bodies
RT	bibliographies		vegetative index		. nebulae
	celestial reference systems coordinates				reflection nebulae
	documentation		d radiation	RT	cosmic dust
	indexes (documentation)	USE	reflected waves		interstellar matter
	inertial reference systems	rofloato	d rave		light scattering
	libraries	reflected	rays reflected waves	reflectivi	ity
	spherical coordinates	UUL	TOTALOGUE WAVES		reflectance
٥	∘ systems	reflecte	d waves	USL	. S Stariot
	Wiswesser notations		Shock waves, expansion waves, or	reflecto	meters
			ssion waves reflected by another wave	DEF	Instruments for measuring reflectance
	ces (standards)		upon a wall or other boundary. In elec-	GS	measuring instruments
USE	standards		radio waves reflected from a surface or		. optical measuring instruments
			Jsed for reflected radiation and reflected		reflectometers
refilling		rays.	unfloated undich		microwave reflectometers
GS	filling	UF	reflected radiation		optical equipment

optical measurement photometers reactor cores reflectance reflector antennas Schelkunoff principle two reflector antennas ultraviolet reflection reflector antennas Antennas consisting of one or more reflecting surfaces and a radiating (receiving) feed system. GS antennas . directional antennas . . reflector antennas . . . parabolic antennas . . . two reflector antennas RT 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 mirrors parasitic elements (antennas) plasma core reactors radiation shielding reactor cores reflecting telescopes reflector antennas Schelkunoff principle subreflectors telescopes two reflector antennas

. optical measuring instruments

. . microwave reflectometers

directors (antenna elements)

reflectometers

comparators

### 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.

GS management

. resources management . . forest management

.. reforestation

forests timber inventory

refracted radiation

USE refracted waves

refracted rays

USE refracted waves

### refracted waves

DEF 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

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 GS

. atmospheric refraction

. radio wave refraction . birefringence

. Kerr electrooptical effect

asphericity astigmatism ∞ conduction deflection diffraction distortion divergence

Huygens principle isochromatics

light (visible radiation) photoelasticity

prisms reflection refracted waves refractivity sinking Snells law transmission Voigt effect wave dispersion wave propagation

refractive index USE refractivity

### refractivity

UF refractive index

GS 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

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

. refractories

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

RT 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		tungsten		refrigerating
	rhenium		tungsten isotopes		· o · · · g o · a · · · · g
	rhenium isotopes	RT	heat resistant alloys	Refsat	
	tantalum		transition metals		A proposed satellite that broadcast
			transition metals		ion aiding signals to low cost user termi
	tantalum isotopes				hich employ the constellation of 2
	tungsten	refracto	ory period		r Global Positioning System (GPS) sat
	tungsten isotopes	RT	reaction time		
RT	ablative materials		relaxation		or position determination.
	carbides		responses	GS	
	Carborundum (trademark)				. navigation satellites
	ceramics		time lag		Refsat
	cermets			RT	NAVSTAR satellites
0	∞ chemical compounds	Refrasi	(trademark)		synchronous satellites
	clays		fibers		,
	high temperature research	002	silicon dioxide	refuelir	ng
			Silicon dioxide	UF	fueling
	∞ inorganic materials			GS	refueling
	∞ materials	refrige	ants	ao	
0	∞ metal compounds	RT	absorbers (materials)	DT	. air to air refueling
	nonflammable materials		absorption cooling	RT	aircraft hazards
	nozzle walls		air conditioning		flight operations
	pyrolytic materials		ammonia		fuel consumption
	Scotchlite (trademark)				fuel contamination
	sialon		brines		fuel control
	datori		coolants		fuel systems
			cooling systems		ground support equipment
refracto	ory metal alloys		fluorohydrocarbons		preflight operations
GS	alloys		freon		propellant transfer
	. heat resistant alloys		ice		
	refractory metal alloys		refrigerating		replenishment
	molybdenum alloys		refrigerating machinery		retractable equipment
	Rene 41		refrigerators		
			0	∞ regene	ration
	Rene 63		solid nitrogen	SN	(USE OF A MORE SPECIFIC TERM IS
	Rene 77				RECOMMENDEDCONSULT THE TERMS
	Rene 95	refrige	ating	DT	LISTED BELOW)
	niobium alloys	RT	air conditioning	RT	0 ( 0 0)
	osmium alloys	111			regeneration (physiology)
	rhenium alloys		air cooling		
	tantalum alloys		cold traps	regene	ration (engineering)
	tungsten alloys		condensing	UF	regenerative cycles
	refractory materials		coolers	RT «	∞ generation
			cooling		positive feedback
	refractory metal alloys		cooling systems		reclamation
	molybdenum alloys		cryogenic cooling		∞ regeneration
	Rene 41		cryogenic equipment		~ regeneration
	Rene 63		cryogenics		ration (nhysiolasy)
	Rene 77		defrosting		ration (physiology)
	Rene 95		•		bioregeneration
	niobium alloys		dehumidification	RT	physiology
	osmium alloys		freezing	c	∞ regeneration
	rhenium alloys		freon		
	tantalum alloys		frozen foods	regene	rative cooling
	and the second s		humidity	DEF	The cooling of a part of an engine b
	tungsten alloys		low temperature		I or propellant being delivered to the
			magnetic cooling		stion chamber; specifically, the cooling of
refracto	ory metals		preserving		t engine combustion chamber or nozzl
	Usually alloys of high-melting point,		refrigerants		
	work metals, but can also refer to certain		refrigerators		lating the fuel or oxidizer, or both, aroun
	ed elements.			the pan	to be cooled.
	metals		temperature	GS	cooling
GS			temperature control		. regenerative cooling
	refractory metals		temperature distribution	RT	heat exchangers
	chromium		thermoacoustic refrigerators		precooling
	chromium isotopes		thermoelectric cooling		regenerators
	iridium		ventilation		· ·
	iridium isotopes			regenei	rative cycles
	molybdenum				regeneration (engineering)
	niobium		ating machinery	002	rogeneration (engineering)
	niobium isotopes	GS	refrigerating machinery	rogene	rative feedback
	niobium 95		. refrigerators		
			thermoacoustic refrigerators	USL	positive feedback
	osmium	RT	absorbers (equipment)		waters first salls
	osmium isotopes		air conditioning		rative fuel cells
	rhenium		air conditioning equipment	GS	electric generators
	rhenium isotopes		blowers		. direct power generators
	tantalum				fuel cells
	tantalum isotopes		compressors		regenerative fuel cells
	tungsten		condensers (liquefiers)		electrochemical cells
	tungsten isotopes		coolers		. fuel cells
	refractory materials		cooling systems		regenerative fuel cells
			cryogenic equipment	DT	
	refractory metals		evaporators	RT	
	chromium		heat pumps		phosphoric acid fuel cells
	chromium isotopes		∞ machinery		storage batteries
	iridium	c			
	iridium isotopes		refrigerants	regene	rators
	molybdenum		temperature control	DEF	
	niobium		thermoelectric cooling		r capturing and returning to the proces
	niobium isotopes				at would otherwise be lost. Used for
		rofrica	atore		
	niobium 95	refrige		recuper	
	osmium	GS	refrigerating machinery	UF	recuperators
	osmium isotopes		. refrigerators	GS	regenerators
	rhenium		thermoacoustic refrigerators		. thermosiphons
	rhenium isotopes	RT	coolers	RT	energy storage
	tantalum		defrosting		heat exchangers
	tantalum isotopes		refrigerants		heat sinks
			- · <del> · - · ·</del>		

	regenerative cooling		. temperate regions		significance
	tube heat exchangers		. tropical regions		statistical tests
Regge p	nolae		Amazon region (South America)		variability
RT	angular momentum	RT	intertropical convergent zones	roaross	sion coefficients
	poles	וח	asteroid belts  ∞ belts	•	coefficients
	Pomeranchuk theorem		boundaries	ao	. regression coefficients
	pomerons		Earth ionosphere		statistical analysis
	scattering cross sections		∞ layers		. variance (statistics)
	•		recovery zones		multivariate statistical analysis
regimes			∞ sectors of the sec		regression analysis
RT	communities		sites		regression coefficients
	culture (social sciences)			RT	correlation
	environments	∞ regist			forecasting
	governments	SN	(USE OF A MORE SPECIFIC TERM IS		mathematical models
	nations		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		quality control
	politics	RT			••
regiona	l planning		registers (computers)	regular	
GS	planning			RT	continuity (mathematics)
ao	. regional planning		ers (air circulation)		convergence
	urban planning	RT	cooling systems		irregularities ∞ normalizing
RT	conservation		∞ registers		∞ normalizing ∞ patterns
	farmlands	rogiet	ers (computers)	Ĭ	periodic variations
	forest management		Devices capable of retaining informa-		physiology
	forests		ten that contained in a small subset (e.g.,	c	∞ properties
	harbors		ord) of the aggregate information in a		trend analysis
	highways		computer.		trona analysis
	industrial areas	GS		regulati	on
	lakes	ao	. computer storage devices		control
	land management		registers (computers)		
	megalopolises		accumulators (computers)	regulat	ions
	parks	RT		RT	air law
	residential areas		∞ recorders		allowances
	rural areas		∞ registers	c	∞ control
	rural land use		shift registers		copyrights
	St Louis-Kansas City Corridor (MO)				crime
	suburban areas	regolit	h		law (jurisprudence)
	urban development	DEF	The layer rock or blanket or unconsoli-		liabilities
	urban transportation	dated	ocky debris of any thickness that overlies		licensing
		bedroo	k 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 Atlantia Pagian (US)		carbonaceous rocks		rules
	. Central Atlantic Region (US)		coal		
	. Central Europe		core-mantle boundary	regulat	
	. D region		Earth mantle	SN	(LIMITED TO DEVICES)
	. E region E-1 layer		Earth resources	GS	control equipment
	E-2 layer		enstatite		. regulators automatic control valves
	sporadic E layer		geology		
	. equatorial regions		igneous rocks		pressure regulators relief valves
	. F region		lava		cryostats
	F 1 region		lithology lunar geology		current regulators
	F 2 region		lunar mantle		flow regulators
	. Fresnel region		lunar rocks		fuel flow regulators
	. Great Basin (US)		magma		oxygen regulators
	. Great Plains Corridor (North		olivine		speed regulators
	America)		peridotite		thermostats
	. Gutenberg zone		pyroxenes		voltage regulators
	. habitats		rock intrusions	RT	actuators
	. lumbar region		selenology		automatic control
	. M region		stratigraphy	c	∞ control
	. Middle East				controllers
	. New England (US)		sion (statistics)		gibberellins
	. null zones	USE	regression analysis		speed control
	. Pacific Northwest (US)		aian analysis		
	. Panama Canal Zone		sion analysis The statistical counterpart or analog of		ory mechanisms (biology)
	. pelagic zone		ctional expression, in ordinary mathemat-	SN	(RESTRICTED TO THE REGULATION OF
	. polar regions Antarctic regions		one variable in terms of others.		PHYSIOLOGICAL AND PHYSIOCHEMICAL PROCESSESEXCLUDES ECOLOGICAL, GENETIC, OR BIOTECHNOLOGICAL
	McMurdo sound	UF	regression (statistics)		GENETIC, OR BIOTECHNOLOGICAL
	Ross ice shelf	GS	statistical analysis	DEF	REGULATION) Specific processes by which living or-
	Arctic regions	ao	. variance (statistics)		s control the rates of biochemical and
	subarctic regions		multivariate statistical analysis		ogical reactions involved in processes
	. remote regions		regression analysis		metabolism and cellular differentiation.
	Antarctic regions		regression coefficients	RT	biocontrol systems
	McMurdo sound	RT	autoregressive moving average		calmodulin
	Ross ice shelf		autoregressive processes	c	∞ control
	Arctic regions		clumps		hormones
	subarctic regions		correlation		thermoregulation
	. Sand Hills Region (GA-NC-SC)		covariance		Ŭ
	. Sand Hills Region (NE)		experiment design	Regulu	s missile
	. sciatic region		factor analysis	ĞS	missiles
	. Southeast Asia		forecasting		. surface to surface missiles
	. Southern California		least squares method		Regulus missile
	. Southern Yemen		quality control	RT	solid propellant rocket engines

turbojet engines	reinforced plastics	ity theory describing a nonrotating, charged
reheating	reinforced plates reinforced shells	black hole. RT astronomical models
USE heating	∞ reinforcement	black holes (astronomy)
•	reinforcement rings	charged particles
reignition	ribs (supports)	gravitational effects
USE <b>ignition</b>	rigid structures	relativity
reinforced plastics	ring structures stiffening	rejection
DEF Plastics with some strength prope	rties strakes	RT acceptability
greatly superior to those of the base re	esin, stringers	elimination
resulting from the presence of high-stre fillers imbedded in the composition. Note:	The structural members	evaluation
reinforcing fillers are usually fibers, fabrics	Structural stability	exclusion
mats made of fibers. The plastic laminates		removal selection
the most common and strongest.	thick walls	33.33.13.11
GS composite materials	wire	relational data bases
. polymer matrix composites reinforced plastics	wire cloth	(added June 1997)
carbon fiber reinforced plastics	s reinforcement rings	GS data bases . relational data bases
carbon-phenolic composites	GS ring structures	RT architecture (computers)
glass fiber reinforced plastics	reinforcement rings	computer systems design
micarta	RT reinforced shells	data base management systems
plastics . <b>reinforced plastics</b>	reinforcement (structures) ribs (supports)	data management data retrieval
carbon fiber reinforced plastics	∞ rings	data retrieval
carbon-phenolic composites	· ·	∞ relationships
glass fiber reinforced plastics	reinforcing fibers GS fibers	SN (USE OF A MORE SPECIFIC TERM IS
micarta	. reinforcing fibers	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)
RT aircraft survivability aramid fiber composites	aramid fibers	UF interrelationships
aramid fibers	Kevlar (trademark)	RT approximation
boron fibers	boron fibers	duality theorem homology
boron reinforced materials	carbon fibers  RT boron reinforced materials	stress-strain relationships
fiber composites	braided composites	
graphite-epoxy composites hybrid composites	carbon fiber reinforced plastics	relative biological effectiveness (RBE)
laminates	carbon-carbon composites	UF <i>RBE</i> GS biological effects
reinforcement (structures)	ceramic fibers	relative biological effectiveness
thermosetting resins	ceramic matrix composites composite materials	(RBE)
reinforced plates	Dacron (trademark)	RT ∞ biology
GS structural members	debonding (materials)	physiological effects
. plates (structural members)	fiber composites	relativistic effects
reinforced plates	fiber orientation	RT Bose-Einstein condensates
RT anisotropic plates	fiber pullout fiber pushout	dimensions
corrugated plates laminates	fiber volume fraction	∞ effects
plastic plates	fiber-matrix interfaces	gravitational lenses mass
reinforcement (structures)	glass fiber reinforced plastics	relativity
	glass fibers	time
reinforced shells GS shells (structural forms)	graphite-epoxy composites hybrid composites	velocity
. reinforced shells	kink bands	relativistic electron beams
RT anisotropic shells	lay-up	DEF Beams of electrons traveling at ap-
corrugated shells	metal fibers	proximately the speed of light. Used for REB.
cylindrical shells fluid filled shells	metal matrix composites micromechanics	UF REB
hemispherical shells	reinforcing materials	GS beams (radiation) . particle beams
liquid filled shells	resin transfer molding	electron beams
metal shells	superhybrid materials	relativistic electron beams
orthotropic shells	synthetic fibers whisker composites	particles
plastic shells reinforcement (structures)	woven composites	. charged particles
reinforcement rings	'	energetic particles electrons
shell stability	reinforcing materials  DEF Fibers, filaments, fabrics, and other	high energy electrons
spherical shells	substances used for strengthening of matrices	relativistic electron beams
thin walled shells	in composite materials.	. corpuscular radiation
toroidal shells wind tunnel walls	RT aramid fibers	electron radiation
wind turiner wans	composite materials	electron beams relativistic electron beams
∞ reinforcement	fabrics fiber composites	energetic particles
SN (USE OF A MORE SPECIFIC TERM IS	£11	electrons
RECOMMENDEDCONSULT THE TEF LISTED BELOW)	∞ filaments	high energy electrons
RT reinforcement (psychology)	∞ materials	relativistic electron beams
reinforcement (structures)	matrix materials	. elementary particles fermions
reinforcement (psychology)	particulate reinforced composites reinforcing fibers	leptons
GS reinforcement (psychology)	· ·	electrons
. reward (psychology)	Reissner theory	high energy electrons
RT learning	RT Mindlin plates plates (structural members)	relativistic electron beams
motivation ∞ reinforcement	stress analysis	. relativistic particles <b>relativistic electron beams</b>
self stimulation	∞ theories	RT beam plasma amplifiers
	Reissner-Mindlin plates	beta particles
reinforcement (structures)	(added April 1998)	controlled fusion
RT bulkheads composite materials	USE Mindlin plates	diffraction radiation electron bombardment
fillers	Reissner-Nordstrom solution	electron scattering
longerons	DEF The unique solution of general relativ-	inertial fusion (reactor)

ionizing radiation unified field theory ... Relay 1 satellite plasma heating Relay 2 satellite plasma jets ∞ relaxation GS artificial satellites (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) plasma-particle interactions SN . communication satellites . . Relay satellites relativistic particles cross relaxation ... Relay 2 satellite DEF Particles with a velocity so large that their relativistic mass exceeds their rest mass by an amount which is significant for the computamolecular relaxation refractory period Relay satellites relaxation (mechanics) GS artificial satellites tion or other considerations at hand. relaxation (physiology) . communication satellites . Relay satellites particles relaxation method (mathematics) relativistic particles ... Relay 1 satellite ... Relay 2 satellite . relativistic electron beams relaxation (mechanics) RT Advent Project
Thor Delta launch vehicle relaxation (mechanics)
. spin-lattice relaxation RT Hamilton-Jacobi equation stress relaxation transoceanic communication relativistic plasmas  $RT \, \infty \, equilibrium$ GS particles releasing GS releasing expansion . charged particles . . energetic particles . . . plasmas (physics) magnetic relaxation . fiber pullout . fiber pushout molecular relaxation . . . relativistic plasmas . corpuscular radiation . energetic particles nuclear relaxation decoupling ∞ reduction ∞ discharge ∞ relaxation disconnect devices relaxation method (mathematics) . . . plasmas (physics) . . . relativistic plasmas relaxation time dispersing dumping residual stress Astron thermonuclear reactor strain energy release rate ejection bremsstrahlung viscoelasticity emission cosmic plasma viscoplasticity emptying electron plasma exhaust emission electron-positron plasmas materials handling gravitational collapse relaxation (physiology) relieving high temperature plasmas RT compressibility effects scattering pinch effect massaging spilling plasma jets recreation unloading plasma radiation ∞ relaxation ventina plasma-particle interactions work-rest cycle ponderomotive forces reliability relaxation method (mathematics) Of a piece of equipment or a system, An iterative numerical method for solvthe probability of specified performance for a relativistic theory ing elliptic partial differential equations, e.g., a UF Wightman theory given period of time when used in the specified RT ∞ theories Poisson equation. GS analysis (mathematics) GS reliability . numerical analysis . aircraft reliability relativistic velocity . . approximation relativistic velocity

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.

GS rates (per time)

\_\_relativistic velocity . circuit reliability ... relaxation method . component reliability (mathematics) . software reliability computational fluid dynamics . . computer program integrity ∞ methodology . spacecraft reliability ∞ relaxation . structural reliability relaxation (mechanics) acceptability velocity relativistic velocity accuracy aircraft survivability relaxation oscillators RT high speed GS oscillators allowances ∞ hypervelocity . relaxation oscillators assurance light speed . . phantastrons censored data (mathematics) particle motion computer systems performance confidence confidence limits consistency relaxation time relativity DEF In general, the time required for a DEF A principle that postulates the equiva-lence of the description of the universe, in terms system, object, or fluid to recover to a specified cumulative damage condition or value after disturbance. Specifically, of physical laws, by various observers, or for various frames of reference. Used for geometrodynamics and space-time continuum. design the time taken by an exponentially decaying design analysis quantity to decrease in amplitude by a factor of 1/e = 0. 3679. downtime durability geometrodynamics GS time dynamic characteristics space-time continuum . relaxation time big bang cosmology RT ∞ equilibrium errors continuums excitation estimates differential geometry Maxwell bodies expectation event horizon failure analysis molecular relaxation field theory (physics) forecasting relaxation (mechanics) grand unified theory spin-lattice relaxation maintainability gravitational lenses maintenance time constant Gravity Probe B maximum likelihood estimates inertial reference systems mechanical properties ∞ relay light-cone expansion missile design (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) disconnect devices Lorentz contraction **MTBF** naked singularities nondestructive tests RT nonrelativistic mechanics o performance electric contacts performance prediction paradoxes electric relavs ponderomotive forces precision logic circuits quantum mechanics prelaunch problems radio relay systems Reissner-Nordstrom solution probability theory relativistic effects repeaters product development

Relay 1 satellite

GS artificial satellites

. . Relay satellites

. communication satellites

GS

Schwarzschild metric

space-time functions

string theory

supergravity

tensor analysis

production management

productivity

redundancy

quality control

quality

### reliability analysis

redundant components safety factors sampling specifications stability 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 USE reliability engineering

### reliability engineering

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 UF complex systems RT concurrent engineering ∞ engineering fault detection fault tolerance lessons learned 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

universe

### relief maps

GS maps

### relief maps

digital elevation models hypsography photogrammetry photomaps topography

### relief valves

GS control equipment

. regulators

. . automatic control valves

. relief valves valves

. automatic control valves

. relief valves

automatic control

bypasses

fuel tank pressurization

fuel valves

gas valves

hydraulic equipment pressure regulators reactor safety

venting vents

### relieving

### GS relieving

stress relieving RT ∞ discharge exhausting purging releasing

### relocation

installing positioning replacing

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

DEF The magnetic flux density which remains in a magnetic circuit after the removal of an applied magnetomotive force. Also called retentivity.

magnetic properties GS remanence

flux density paleomagnetism

remelting USE

RT

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

RT computer components computer graphics

data links

data processing terminals

display devices plotters readout

### remote control

RT

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 remote control

GS

. radio control aircraft control

antiradiation missiles

attitude control

automatic control

 $\infty$  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

### remote handling

telechirics

materials handling . remote handling GS

visual control

RT manipulators

payload deployment & retrieval system

Space Station Mobile Servicing System

teleoperators

remote manipulator system

DEF 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.

GS manipulators

### remote manipulator system

. . Space Station Mobile Servicing

System

RT 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 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 GS

. remote sensing aeromagnetism airborne radar

	Aqua spacecraft		∞ probes		orbital rendezvous
	Aura spacecraft		radiometric resolution		proportional navigation
	band ratioing		satellite-borne instruments		satellite guidance
	CALIPSO (Pathfinder satellite)				•
	,		Sea-viewing Wide Field-of-view		spacecraft guidance
	CERES (experiment)		Sensor		terminal guidance
	change detection		∞ sensors	rondoz	vous spacecraft
	CloudSat		spaceborne lasers		maneuverable spacecraft
	cluster analysis		transducers	GS	•
	Coastal Zone Color Scanner		wildlife radiolocation	DT	rendezvous spacecraft
	data products	_		RT	
	desertification		ly piloted vehicles		command guidance
	differential absorption lidar		RPV		ferry spacecraft
	DMSP satellites	RT «	∞ aircraft		interplanetary spacecraft
	Earth Observing System (EOS)		DAST program		lunar spacecraft
	Earth resources		drone aircraft		manned spacecraft
	Envisat-1 satellite		highly maneuverable aircraft		military spacecraft
	EOS data and information system		Jindivik target aircraft		orbital rendezvous
	Feature Identification and Location		oblique wings		recoverable spacecraft
	Exper		orbital maneuvering vehicles		space capsules
	FIRE (climatology)		pilotless aircraft		space stations
	geographic distribution		target drone aircraft		spacecrew transfer
	geographic information systems		unmanned aircraft systems		unmanned spacecraft
			unmanned ground vehicles		dimarined spaceorait
	GRACE mission			randaz	vous trajectories
	image analysis		VATOL aircraft ∞ vehicles		trajectories
	image classification		∞ verticles	do	
	imaging spectrometers			DT	rendezvous trajectories
	in situ measurement	remova		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
	Mapsat		clearing		Near Earth Asteroid Rendezvous
	MISR (radiometry)		deletion		Mission
	Mission to Planet Earth		depletion		orbital mechanics
	MODIS (radiometry)		disposal		orbital rendezvous
	multisensor applications		dissipation		Rosetta mission
	multisensor fusion		ejection		space rendezvous
			emptying		spacecraft docking
	Multispectral Resource Sampler				spacecraft trajectories
	normalized difference vegetation		evacuating (transportation)		spaceciait trajectories
	index		evacuating (vacuum)	Dana 4	4
	observation scheduling		exhausting	Rene 4	
	OSTA-3 payload		expulsion	GS	alloys
	pixels		extraction		. chromium alloys
	planetary geology		materials recovery		Rene 41
	plant stress		∞ reduction		. cobalt alloys
	Priroda module		rejection		Rene 41
	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
		USE	rapid eye movement state		Rene 41
	Surface Meteorology and Solar	00L	rapid cyc movement state		refractory materials
	Energy project	renal ca	alculi		. refractory metal alloys
	Surface Radiation Budget project		calculi		molybdenum alloys
	swath width	USE			
	Terra spacecraft		kidney stones	DT	Rene 41
	thematic mappers (LANDSAT)			RT	wrought alloys
	vegetative index	renal fu			•
		RI «	∞ functions	Rene 6	
			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	rendez	vous		. 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 an	d place. The point in space at which such		Rene 63
	airborne radar		nt 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
		RT		рт	
	data collection platforms	n i	Apollo Soyuz test project	RT	wrought alloys
	data products		flight mechanics	D 7	7
۰	o detectors		interception	Rene 7	
	Earth resources		maneuvers	GS	alloys
	Earthnet		orbital mechanics		. chromium alloys
	EROS (satellites)				Rene 77
	Feature Identification and Location	rendez	vous guidance		. cobalt alloys
	Exper	GS			Rene 77
	geographic applications program		. rendezvous guidance		. heat resistant alloys
	haze detection	RT	Automated Transfer Vehicle		refractory metal alloys
	image classification		autonomous docking		molybdenum alloys
	imaging radar		command guidance		Rene 77
	measuring instruments		homing devices		. nickel alloys
	multisensor applications		injection guidance		Rene 77
	ocean color scanner		midcourse guidance		refractory materials

	. refractory metal alloys		redundancy encoding		drawings
	molybdenum alloys				engineering drawings
DT	Rene 77	replaci RT	ng damage assessment		lithography
RT	wrought alloys	n i	installing		microfilms
Rene 95			maintenance		photographic processing equipment photography
DEF	High-strength nickel-base superalloy.		relocation		printing
GS	alloys		replenishment		replicas
0.0	. chromium alloys		substitutes	c	∞ reproduction
	Rene 95				stencil processes
	. cobalt alloys		shment		·
	Rene 95	RT	filling		uctive systems
	. heat resistant alloys		input	GS	anatomy
	refractory metal alloys	c	o loading		. genitourinary system
	molybdenum alloys		refilling refueling		reproductive systems
	Rene 95		replacing		sex glands
	. nickel alloys		replacing		gonads
	. Rene 95	replica	8		ovaries testes
	refractory materials	RT	electron microscopes		prostate gland
	. refractory metal alloys		metallography		uterus
	Rene 95		models	RT	birth
	Helle 33		reproduction (copying)		chromosomes
ronował	ole energy				fertility
	ed December 1998)		generators		fetuses
	renewable energy	RT		c	∞ reproduction
0.0	geothermal energy utilization		computer systems programs		reproduction (biology)
	. hydroelectricity	c	∘ generators	c	∞ systems
	. tidepower		user manuals (computer programs)		
	. waterwave energy	reports		reptiles	
	. windpower utilization	GS	reports	GS	animals
RT	bioconversion	ao	. congressional reports		. vertebrates
	biomass energy production		. postlaunch reports		reptiles lizards
	clean energy		. Presidential reports		snakes
	energy policy		. wage surveys		turtles
∞	energy sources	RT	aerospace technology transfer	RT	
	energy technology		conferences		pointionicimia
	geothermal energy conversion	c	discussion	Republ	ic aircraft
	hydrogen-based energy		documentation	GS	Republic aircraft
	ocean thermal energy conversion solar energy conversion		documents		. A-10 aircraft
	Surface Meteorology and Solar		information		. F-84 aircraft
	Energy project		information dissemination		. F-105 aircraft
	waste utilization		papers	RT «	∞ aircraft
	waterwave energy conversion		proposals	D/-/	is at Ohios
	mater mare energy convencion		records		ic of China
renin			summaries	USE	Taiwan
	ed August 2004)		supplements	Republ	ic of Korea
	An enzyme whihc is secreted by the		technology transfer		South Korea
kidney a	nd is formed from protein in plasma and	represe	entations	002	Coulii Norou
kidney.	The enzyme cleaves the Leu-Leu bond	RT		Republ	ic of South Africa
in angiot	ensinogen 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				Lesotho
	enzymes	∞ reprod			Namibia
RT	renin angiotensins	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		Swaziland
111	kidneys		LISTED BELOW)	Republ	ic of Vietnam
	Ridileys	RT	fertilization		Vietnam
renorma	alization group methods		reproduction (biology)		
	ed August 1990)		reproduction (copying)	repulsio	
	Monte Carlo method		reproductive systems	USE	force
	normalizing (statistics)	roprodi	ustion (biology)		_
	statistical mechanics	•	uction (biology) ∘ biology	require	
	turbulence models	nis	birth	GS	requirements
			breeding (reproduction)	RT	. user requirements
reorienta	ation		cell division	וח	specifications
USE	retraining		cloning (biology)	rescue	operations
			embryology	RT	aeronautical satellites
repairing			fertility		Assured Crew Return Vehicle
USE	maintenance		fetuses		COSPAS
			mitosis		HH-65 helicopter
repeater			progeny		Marots (ESA)
UF	interpolators	c	o reproduction	c	∞ operations
GS	transmitters		reproductive systems		SarSat
рт	. repeaters		sex glands		spacecraft recovery
RT	amplifiers		zygotes		X-38 crew return vehicle
	radar receivers receivers		uction (conving)		a h
	relay	reprodi UF	uction (copying)	researd GS	
	translators	GS	duplicating imagery	GS	research . dynamic programming
~		GG	. reproduction (copying)		high temperature research
repetitio	on .		xerography		. linear programming
	counting	RT	blueprints		. low density research
	pattern recognition		document storage		. market research
	i				

			V 00 1 6
	. multidisciplinary research	investigation	X-20 aircraft
	. nonlinear programming	management planning	X-21 aircraft
	. nuclear research	operations research	X-21A aircraft
	. quadratic programming	outer space treaty	X-22 aircraft
RT	critical path method	programs	X-22A aircraft
c	∞ design	project management	X-24 aircraft
	ethics	proposals	X-31 aircraft
	exploration	∞ research projects	X-32 aircraft
	interservice data exchange program	systems engineering	X-35 aircraft
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	D-558 aircraft		electric motor vehicles
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	Firebee 2 target drone aircraft	∞ budgets .	lunar roving vehicles
	H-17 helicopter	engineering management	Mars roving vehicles
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	Nord 1500 aircraft	manpower	space laboratories
	Questol aircraft	multidisciplinary research	∞ spacecraft
		operations research	surface effect ships
	rotor systems research aircraft	personnel	underwater vehicles
	SC-1 aircraft	priorities	∞ vehicles
	U-2 aircraft	F	water vehicles
	VZ-2 aircraft	∞ research projects	water verifices
	VZ-8 aircraft	SN (USE OF A MORE SPECIFIC TERM IS	
	X-1 aircraft	RECOMMENDEDCONSULT THE TERMS	reserpine
	X-2 aircraft	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
	X-15 aircraft	Indian space program	reserpine
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	X-20 aircraft	management	alkaloids
	X-21 aircraft	NASA programs	reserpine
	X-21 aircraft	· -	organic compounds
		programs	. cyclic compounds
	X-22 aircraft	project management	heterocyclic compounds
	X-22A aircraft	projects	alkaloids
	X-24 aircraft	research	reserpine
	X-31 aircraft	research and development	RT antihypertensive agents
	X-32 aircraft	research facilities	iti aniinypertensive agents
	X-35 aircraft	space programs	KOOOKIVOO
	X-35 aircraft	space programs SPHINX	reserves
		SPHINX	RT abundance
	X-36 aircraft		RT abundance availability
	X-36 aircraft X-45 aircraft	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS	RT abundance availability backups
	. X-36 aircraft . X-45 aircraft . XH-51 helicopter	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH-NOT RESEARCH	RT abundance availability backups contingency
	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCHNOT RESEARCH EQUIPMENT CONTAINERS)	RT abundance availability backups contingency crude oil
	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCHNOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles	RT abundance availability backups contingency crude oil economic factors
	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-8A aircraft	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCHNOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles . automated mixed traffic vehicles	RT abundance availability backups contingency crude oil economic factors energy policy
RT	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-8A aircraft XV-9A aircraft XV-9A aircraft	research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH-NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles . automated mixed traffic vehicles . research aircraft	RT abundance availability backups contingency crude oil economic factors
RT	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-8A aircraft XV-9A aircraft XV-9A aircraft aerospace planes	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH-NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles . automated mixed traffic vehicles . research aircraft . Avian 2/180 autogiro	RT abundance availability backups contingency crude oil economic factors energy policy
	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-8A aircraft XV-9A aircraft XV-11A aircraft aerospace planes ∞ aircraft	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH-NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles	RT abundance availability backups contingency crude oil economic factors energy policy estimates
	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-8A aircraft XV-9A aircraft XV-11A aircraft aerospace planes ∞ aircraft drone aircraft	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH-NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles . automated mixed traffic vehicles . research aircraft . Avian 2/180 autogiro . AVRO 707 aircraft . B-70 aircraft	RT abundance availability backups contingency crude oil economic factors energy policy estimates estimating
	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-8A aircraft XV-9A aircraft XV-11A aircraft aerospace planes aerioraft drone aircraft fan in wing aircraft	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCHNOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles . automated mixed traffic vehicles . research aircraft . Avian 2/180 autogiro . AVRO 707 aircraft . B-70 aircraft . Breguet 940 aircraft	RT abundance availability backups contingency crude oil economic factors energy policy estimates estimating evaluation
	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-8A aircraft XV-9A aircraft XV-11A aircraft aerospace planes ⇒ aircraft drone aircraft fan in wing aircraft flight test vehicles	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCHNOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles . automated mixed traffic vehicles . research aircraft . Avian 2/180 autogiro . AVRO 707 aircraft . B-70 aircraft . B-70 aircraft . Breguet 940 aircraft . C-8A augmentor wing aircraft	AT abundance availability backups contingency crude oil economic factors energy policy estimates estimating evaluation exploitation exploration
	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-8A aircraft XV-9A aircraft XV-11A aircraft aerospace planes ⇒ aircraft drone aircraft fan in wing aircraft flight test vehicles flying platforms	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH-NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles . automated mixed traffic vehicles . research aircraft . Avian 2/180 autogiro . AVRO 707 aircraft . B-70 aircraft . Breguet 940 aircraft . C-8A augmentor wing aircraft . D-558 aircraft	AT abundance availability backups contingency crude oil economic factors energy policy estimates estimating evaluation exploitation forecasting
	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-8A aircraft XV-9A aircraft XV-11A aircraft aerospace planes aircraft drone aircraft fan in wing aircraft flight test vehicles flying platforms ground effect machines	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH-NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles . automated mixed traffic vehicles . research aircraft . Avian 2/180 autogiro . AVRO 707 aircraft . B-70 aircraft . Breguet 940 aircraft . C-8A augmentor wing aircraft . D-558 aircraft . FD 2 aircraft	AT abundance availability backups contingency crude oil economic factors energy policy estimates estimating evaluation exploitation forecasting inventories
	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-5 aircraft XV-9A aircraft XV-9A aircraft XV-11A aircraft aerospace planes  aircraft drone aircraft fan in wing aircraft flight test vehicles flying platforms ground effect machines hovercraft ground effect machines	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH-NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles . automated mixed traffic vehicles . research aircraft . Avian 2/180 autogiro . AVRO 707 aircraft . B-70 aircraft . Breguet 940 aircraft . C-8A augmentor wing aircraft . D-558 aircraft	AT abundance availability backups contingency crude oil economic factors energy policy estimates estimating evaluation exploitation exploration forecasting inventories inventory controls
	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-9 aircraft XV-9A aircraft XV-11A aircraft aerospace planes aircraft drone aircraft fan in wing aircraft flight test vehicles flying platforms ground effect machines hovercraft ground effect machines hypersonic aircraft	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH-NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles . automated mixed traffic vehicles . research aircraft . Avian 2/180 autogiro . AVRO 707 aircraft . B-70 aircraft . Breguet 940 aircraft . C-8A augmentor wing aircraft . D-558 aircraft . FD 2 aircraft	AT abundance availability backups contingency crude oil economic factors energy policy estimates estimating evaluation exploitation exploration forecasting inventories inventory controls ∞ materials
	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-8 aircraft XV-9A aircraft XV-9A aircraft XV-11A aircraft aerospace planes ⇒ aircraft drone aircraft fan in wing aircraft flight test vehicles flying platforms ground effect machines hovercraft ground effect machines hypersonic aircraft jet aircraft	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH-NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles . automated mixed traffic vehicles . research aircraft . Avian 2/180 autogiro . AVRO 707 aircraft . B-70 aircraft . Breguet 940 aircraft . C-8A augmentor wing aircraft . D-558 aircraft . FD 2 aircraft . FD 2 aircraft . Firebee 2 target drone aircraft	abundance availability backups contingency crude oil economic factors energy policy estimates estimating evaluation exploitation exploitation forecasting inventories inventory controls ∞ materials mineral deposits
c	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-8 aircraft XV-8A aircraft XV-9A aircraft XV-11A aircraft aerospace planes ⇒ aircraft drone aircraft fan in wing aircraft fight test vehicles flying platforms ground effect machines hovercraft ground effect machines hypersonic aircraft jet aircraft joined wings	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH-NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles . automated mixed traffic vehicles . research aircraft . Avian 2/180 autogiro . AVRO 707 aircraft . B-70 aircraft . Breguet 940 aircraft . C-8A augmentor wing aircraft . D-558 aircraft . FD 2 aircraft . Firebee 2 target drone aircraft . H-17 helicopter	AT abundance availability backups contingency crude oil economic factors energy policy estimates estimating evaluation exploitation exploitation forecasting inventories inventory controls mineral deposits mines (excavations)
c	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-5 aircraft XV-9A aircraft XV-9A aircraft XV-11A aircraft aerospace planes aircraft drone aircraft fan in wing aircraft flight test vehicles flying platforms ground effect machines hovercraft ground effect machines hypersonic aircraft jet aircraft joined wings military aircraft	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH-NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles . automated mixed traffic vehicles . research aircraft . Avian 2/180 autogiro . AVRO 707 aircraft . B-70 aircraft . Breguet 940 aircraft . C-8A augmentor wing aircraft . D-558 aircraft . FD 2 aircraft . Firebee 2 target drone aircraft . H-17 helicopter . H-126 aircraft . HP-115 aircraft	abundance availability backups contingency crude oil economic factors energy policy estimates estimating evaluation exploitation exploration forecasting inventories inventory controls ∞ materials mineral deposits mines (excavations) ∞ production
c	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-5 aircraft XV-9A aircraft XV-9A aircraft XV-11A aircraft aerospace planes aircraft drone aircraft fan in wing aircraft flight test vehicles flying platforms ground effect machines hovercraft ground effect machines hypersonic aircraft jet aircraft joined wings military aircraft nuclear propelled aircraft	research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCHNOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles . automated mixed traffic vehicles . research aircraft . Avian 2/180 autogiro . AVRO 707 aircraft . B-70 aircraft . Breguet 940 aircraft . C-8A augmentor wing aircraft . D-558 aircraft . FD 2 aircraft . Firebee 2 target drone aircraft . H-17 helicopter . H-126 aircraft	abundance availability backups contingency crude oil economic factors energy policy estimates estimating evaluation exploitation exploration forecasting inventories inventory controls ∞ materials mineral deposits mines (excavations) ∞ production resources
c	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-8A aircraft XV-9A aircraft XV-9A aircraft XV-914 aircraft aerospace planes  aircraft drone aircraft fan in wing aircraft flight test vehicles flying platforms ground effect machines hovercraft ground effect machines hypersonic aircraft jet aircraft joined wings military aircraft nuclear propelled aircraft rocket planes	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH-NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles . automated mixed traffic vehicles . research aircraft . Avian 2/180 autogiro . AVRO 707 aircraft . B-70 aircraft . B-70 aircraft . C-8A augmentor wing aircraft . D-558 aircraft . FD 2 aircraft . Firebee 2 target drone aircraft . H-17 helicopter . H-126 aircraft . HP-115 aircraft . meteorological research aircraft	abundance availability backups contingency crude oil economic factors energy policy estimates estimating evaluation exploitation exploitation forecasting inventories inventory controls  materials mineral deposits mines (excavations)  production resources stockpiling
c	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-5 aircraft XV-9A aircraft XV-9A aircraft XV-11A aircraft aerospace planes aircraft drone aircraft fan in wing aircraft flight test vehicles flying platforms ground effect machines hovercraft ground effect machines hypersonic aircraft jet aircraft joined wings military aircraft nuclear propelled aircraft	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH-NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles . automated mixed traffic vehicles . research aircraft . Avian 2/180 autogiro . AVRO 707 aircraft . B-70 aircraft . Breguet 940 aircraft . C-8A augmentor wing aircraft . D-558 aircraft . FD 2 aircraft . Firebee 2 target drone aircraft . H-17 helicopter . H-126 aircraft . meteorological research aircraft . Nord 1500 aircraft . Questol aircraft	abundance availability backups contingency crude oil economic factors energy policy estimates estimating evaluation exploitation exploration forecasting inventories inventory controls ∞ materials mineral deposits mines (excavations) ∞ production resources
c	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-8A aircraft XV-9A aircraft XV-9A aircraft XV-914 aircraft aerospace planes  aircraft drone aircraft fan in wing aircraft flight test vehicles flying platforms ground effect machines hovercraft ground effect machines hypersonic aircraft jet aircraft joined wings military aircraft nuclear propelled aircraft rocket planes	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH-NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles	abundance availability backups contingency crude oil economic factors energy policy estimates estimating evaluation exploitation exploration forecasting inventories inventory controls ∞ materials mineral deposits mines (excavations) ∞ production resources stockpiling ∞ storage
c	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-8 aircraft XV-9A aircraft XV-9A aircraft XV-11A aircraft aerospace planes aircraft drone aircraft fan in wing aircraft flight test vehicles flying platforms ground effect machines hovercraft ground effect machines hypersonic aircraft jet aircraft joined wings military aircraft nuclear propelled aircraft rocket planes submersible aircraft	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH-NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles . automated mixed traffic vehicles . research aircraft . Avian 2/180 autogiro . AVRO 707 aircraft . B-70 aircraft . B-70 aircraft . C-8A augmentor wing aircraft . D-558 aircraft . Firebee 2 target drone aircraft . H-17 helicopter . H-126 aircraft . HP-115 aircraft . HP-115 aircraft . Meteorological research aircraft . Nord 1500 aircraft . Questol aircraft . rotor systems research aircraft . SC-1 aircraft	abundance availability backups contingency crude oil economic factors energy policy estimates estimates estimating evaluation exploitation exploration forecasting inventories inventory controls ∞ materials mineral deposits mines (excavations) ∞ production resources stockpiling ∞ storage
c	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-5 aircraft XV-8A aircraft XV-9A aircraft XV-11A aircraft aerospace planes  ⇒ aircraft drone aircraft fan in wing aircraft flight test vehicles flying platforms ground effect machines hovercraft ground effect machines hovercraft ground effect machines hovercraft joined wings ⇒ military aircraft nuclear propelled aircraft rocket planes submersible aircraft supersonic aircraft	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH-NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles . automated mixed traffic vehicles . research aircraft . Avian 2/180 autogiro . AVRO 707 aircraft . B-70 aircraft . Breguet 940 aircraft . C-8A augmentor wing aircraft . D-558 aircraft . FD 2 aircraft . Firebee 2 target drone aircraft . H-17 helicopter . H-126 aircraft . HP-115 aircraft . meteorological research aircraft . Nord 1500 aircraft . Questol aircraft . Questol aircraft . Totor systems research aircraft . SC-1 aircraft . U-2 aircraft	AT abundance availability backups contingency crude oil economic factors energy policy estimates estimating evaluation exploitation exploitation forecasting inventories inventories inventory controls ∞ materials mineral deposits mines (excavations) ∞ production resources stockpiling ∞ storage
c	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-8A aircraft XV-9A aircraft XV-9A aircraft XV-911A aircraft aerospace planes  aircraft drone aircraft fan in wing aircraft flight test vehicles flying platforms ground effect machines hovercraft ground effect machines hypersonic aircraft jet aircraft joined wings military aircraft nuclear propelled aircraft rocket planes submersible aircraft supersonic aircraft tailless aircraft tandem wing aircraft	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCHNOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles . automated mixed traffic vehicles . research aircraft . Avian 2/180 autogiro . AVRO 707 aircraft . B-70 aircraft . Breguet 940 aircraft . C-8A augmentor wing aircraft . FD 2 aircraft . FD 2 aircraft . Firebee 2 target drone aircraft . H-17 helicopter . H-126 aircraft . HP-115 aircraft . meteorological research aircraft . Nord 1500 aircraft . Questol aircraft . rotor systems research aircraft . SC-1 aircraft . U-2 aircraft . U-2 aircraft . VZ-2 aircraft	AT abundance availability backups contingency crude oil economic factors energy policy estimates estimating evaluation exploitation exploration forecasting inventories inventory controls ∞ materials mineral deposits mines (excavations) ∞ production resources stockpiling ∞ storage  reservoirs  SN (FOR SURFACE WATER STORAGENOT OIL OR GAS POOLS)
c	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-8 aircraft XV-9A aircraft XV-9A aircraft XV-11A aircraft aerospace planes aircraft drone aircraft fan in wing aircraft flight test vehicles flying platforms ground effect machines hovercraft ground effect machines hypersonic aircraft joined wings military aircraft nuclear propelled aircraft rocket planes submersible aircraft tailless aircraft tandem wing aircraft test vehicles	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH-NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles	AT abundance availability backups contingency crude oil economic factors energy policy estimates estimating evaluation exploitation exploration forecasting inventories inventory controls ∞ materials mineral deposits mines (excavations) ∞ production resources stockpilling ∞ storage  reservoirs  SN (FOR SURFACE WATER STORAGENOT OIL OR GAS POOLS) RT dams
c	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-5 aircraft XV-8A aircraft XV-9A aircraft XV-11A aircraft aerospace planes aircraft drone aircraft fan in wing aircraft flight test vehicles flying platforms ground effect machines hovercraft joined wings military aircraft subersonic aircraft tauleas aircraft tandem wing aircraft test vehicles tilt wing aircraft	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH-NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles . automated mixed traffic vehicles . research aircraft . Avian 2/180 autogiro . AVRO 707 aircraft . B-70 aircraft . B-70 aircraft . C-8A augmentor wing aircraft . D-558 aircraft . FD 2 aircraft . Firebee 2 target drone aircraft . H-17 helicopter . H-126 aircraft . HP-115 aircraft . Mord 1500 aircraft . Nord 1500 aircraft . Questol aircraft . rotor systems research aircraft . SC-1 aircraft . U-2 aircraft . VZ-2 aircraft . VZ-8 aircraft . X-1 aircraft . X-1 aircraft	RT abundance availability backups contingency crude oil economic factors energy policy estimates estimating evaluation exploitation exploration forecasting inventories inventory controls ∞ materials mineral deposits mines (excavations) ∞ production resources stockpiling ∞ storage  reservoirs  SN (FOR SURFACE WATER STORAGENOT OIL OR GAS POOLS) RT dams evaporation
c	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-5 aircraft XV-8A aircraft XV-9A aircraft XV-11A aircraft aerospace planes  aircraft drone aircraft fan in wing aircraft flight test vehicles flying platforms ground effect machines hovercraft joined wings som military aircraft uclear propelled aircraft rocket planes submersible aircraft tandem wing aircraft tandem wing aircraft test vehicles tilt wing aircraft V/STOL aircraft	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH—NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles . automated mixed traffic vehicles . research aircraft . Avian 2/180 autogiro . AVRO 707 aircraft . B-70 aircraft . B-70 aircraft . C-8A augmentor wing aircraft . FD 2 aircraft . Firebee 2 target drone aircraft . H-17 helicopter . H-126 aircraft . HP-115 aircraft . Metorological research aircraft . Nord 1500 aircraft . Nord 1500 aircraft . Questol aircraft . SC-1 aircraft . U-2 aircraft . U-2 aircraft . VZ-8 aircraft . X-1 aircraft . X-1 aircraft . X-2 aircraft . X-2 aircraft	AT abundance availability backups contingency crude oil economic factors energy policy estimates estimating evaluation exploitation exploitation forecasting inventories inventory controls ∞ materials mineral deposits mines (excavations) ∞ production resources stockpiling ∞ storage  reservoirs  SN (FOR SURFACE WATER STORAGENOT OIL OR GAS POOLS)  RT dams evaporation fresh water
c	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-8A aircraft XV-9A aircraft XV-9A aircraft XV-9A aircraft XV-11A aircraft aerospace planes aircraft drone aircraft fan in wing aircraft flight test vehicles flying platforms ground effect machines hovercraft ground effect machines hypersonic aircraft jet aircraft joined wings military aircraft nuclear propelled aircraft rocket planes submersible aircraft supersonic aircraft tailless aircraft tailless aircraft tandem wing aircraft test vehicles tilt wing aircraft vertical takeoff aircraft	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH-NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles . automated mixed traffic vehicles . research aircraft . Avian 2/180 autogiro . AVRO 707 aircraft . B-70 aircraft . Breguet 940 aircraft . C-8A augmentor wing aircraft . D-558 aircraft . FD 2 aircraft . Firebee 2 target drone aircraft . H-17 helicopter . H-126 aircraft . HP-115 aircraft . meteorological research aircraft . Nord 1500 aircraft . Questol aircraft . Questol aircraft . C-9.4 aircraft . U-2 aircraft . U-2 aircraft . VZ-8 aircraft . VZ-8 aircraft . VZ-8 aircraft . X-1 aircraft . X-2 aircraft . X-3 aircraft . X-3 aircraft . X-3 aircraft	AT abundance availability backups contingency crude oil economic factors energy policy estimates estimating evaluation exploitation exploration forecasting inventories inventory controls ∞ materials mineral deposits mines (excavations) ∞ production resources stockpiling ∞ storage  reservoirs  SN (FOR SURFACE WATER STORAGENOT OIL OR GAS POOLS)  RT dams evaporation fresh water lagoons
c	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-5 aircraft XV-8 aircraft XV-9A aircraft XV-9A aircraft XV-9A aircraft XV-11A aircraft aerospace planes aircraft drone aircraft fan in wing aircraft flight test vehicles flying platforms ground effect machines hovercraft ground effect machines hypersonic aircraft jet aircraft joined wings ∞ military aircraft nuclear propelled aircraft rocket planes submersible aircraft supersonic aircraft tailless aircraft tandem wing aircraft test vehicles tilt wing aircraft V/STOL aircraft vertical takeoff aircraft swinged vehicles	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH-NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles	AT abundance availability backups contingency crude oil economic factors energy policy estimates estimating evaluation exploitation forecasting inventories inventory controls ∞ materials mineral deposits mines (excavations) ∞ production resources stockpilling ∞ storage  reservoirs  SN (FOR SURFACE WATER STORAGENOT OIL OR GAS POOLS)  RT dams evaporation fresh water lagoons Lake Texoma (OK-TX)
c	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-8A aircraft XV-9A aircraft XV-9A aircraft XV-9A aircraft XV-11A aircraft aerospace planes aircraft drone aircraft fan in wing aircraft flight test vehicles flying platforms ground effect machines hovercraft ground effect machines hypersonic aircraft jet aircraft joined wings military aircraft nuclear propelled aircraft rocket planes submersible aircraft supersonic aircraft tailless aircraft tailless aircraft tandem wing aircraft test vehicles tilt wing aircraft vertical takeoff aircraft	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH-NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles	AT abundance availability backups contingency crude oil economic factors energy policy estimates estimates estimates estimating evaluation exploitation exploration forecasting inventories inventory controls ∞ materials mineral deposits mines (excavations) ∞ production resources stockpiling ∞ storage  reservoirs  SN (FOR SURFACE WATER STORAGENOT OIL OR GAS POOLS) RT dams evaporation fresh water lagoons Lake Texoma (OK-TX) lakes
c	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-5 aircraft XV-8 aircraft XV-9A aircraft XV-9A aircraft XV-9A aircraft XV-11A aircraft aerospace planes aircraft drone aircraft fan in wing aircraft flight test vehicles flying platforms ground effect machines hovercraft ground effect machines hypersonic aircraft jet aircraft joined wings ∞ military aircraft nuclear propelled aircraft rocket planes submersible aircraft supersonic aircraft tailless aircraft tandem wing aircraft test vehicles tilt wing aircraft V/STOL aircraft vertical takeoff aircraft swinged vehicles	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH-NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles	AT abundance availability backups contingency crude oil economic factors energy policy estimates estimating evaluation exploitation forecasting inventories inventory controls ∞ materials mineral deposits mines (excavations) ∞ production resources stockpilling ∞ storage  reservoirs  SN (FOR SURFACE WATER STORAGENOT OIL OR GAS POOLS)  RT dams evaporation fresh water lagoons Lake Texoma (OK-TX)
c	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-5 aircraft XV-8 aircraft XV-9A aircraft XV-9A aircraft XV-9A aircraft XV-11A aircraft aerospace planes aircraft drone aircraft fan in wing aircraft flight test vehicles flying platforms ground effect machines hovercraft ground effect machines hypersonic aircraft jet aircraft joined wings ∞ military aircraft nuclear propelled aircraft rocket planes submersible aircraft supersonic aircraft tailless aircraft tandem wing aircraft test vehicles tilt wing aircraft V/STOL aircraft vertical takeoff aircraft swinged vehicles	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH-NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles	AT abundance availability backups contingency crude oil economic factors energy policy estimates estimates estimates estimating evaluation exploitation exploration forecasting inventories inventory controls ∞ materials mineral deposits mines (excavations) ∞ production resources stockpiling ∞ storage  reservoirs  SN (FOR SURFACE WATER STORAGENOT OIL OR GAS POOLS) RT dams evaporation fresh water lagoons Lake Texoma (OK-TX) lakes
researc	X-36 aircraft X-45 aircraft XH-51 helicopter XV-4 aircraft XV-5 aircraft XV-5 aircraft XV-8A aircraft XV-9A aircraft XV-11A aircraft aerospace planes aircraft drone aircraft fan in wing aircraft flight test vehicles flying platforms ground effect machines hovercraft ground effect machines hypersonic aircraft joined wings military aircraft nuclear propelled aircraft rocket planes submersible aircraft tandem wing aircraft tandem wing aircraft test vehicles tilt wing aircraft vySTOL aircraft vertical takeoff aircraft winged vehicles winged vehicles YF-12 aircraft	SPHINX  research vehicles  SN (VEHICLES DESIGNED TO BE SUBJECTS OF RESEARCH—NOT RESEARCH EQUIPMENT CONTAINERS)  GS research vehicles	RT abundance availability backups contingency crude oil economic factors energy policy estimates estimating evaluation exploitation exploration forecasting inventories inventory controls ∞ materials mineral deposits mines (excavations) ∞ production resources stockpiling ∞ storage  reservoirs  SN (FOR SURFACE WATER STORAGENOT OIL OR GAS POOLS) RT dams evaporation fresh water lagoons Lake Texoma (OK-TX) lakes ponds

streams metal-metal bonding bismaleimide water resources Delrin (trademark) resin film infusion windpowered pumps fillers (added August 1997) UF RFI (composite materials) Lexan (trademark) residential areas melamine cities composite materials paraplasts composite structures inhabitants patterns land fabrication phenol formaldehyde land use infiltration phloroglucinol megalopolises polymer matrix composites plastisols regional planning preforms resin matrix composites rural areas resin matrix composites teflon (trademark) suburban areas resin transfer molding urban development ∞ resistance (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) In electricity, the factor by which the resin matrix composites SN Composite materials utilizing a matrix residential energy DEF Household energy requirements in of filaments and/or fibers of glass, metal, or DFF other material bound with a polymer or resin. residences, apartments, etc. square of the instantaneous conduction current energy conservation composite materials must be multiplied to obtain the power lost by energy technology resin matrix composites heat dissipation or other permanent radiation of heat pumps . . boron-epoxy composites energy away from the electrical current. In mesolar cooling ... carbon-phenolic composites chanics, the opposition by frictional effects to solar heating . graphite-epoxy composites forces tending to produce motion. Used for aramid fibers solar houses conductance and resistance coefficients. bismaleimide space cooling (buildings) conductance space heating (buildings) epoxy resins resistance coefficients water heating hybrid composites abrasion resistance matrix materials acceleration tolerance metal matrix composites residual gas acoustic properties GS gases PEEK aerodynamic drag polyimide resins residual gas chemical properties polymer matrix composites aetters constrictions high vacuum prepregs contact resistance outgassing pultrusion corrosion resistance resin film infusion partial pressure crack propagation resin transfer molding ultrahigh vacuum creep strength vacuum apparatus resins damping vacuum tubes sheet molding compounds diffusivity durability resin transfer molding residual strength earthquake resistance RT crack propagation (added May 1992) electrical properties RTM (composite materials) fatigue (materials) electrical resistance forming techniques fracture mechanics electrical resistivity fracture strength . resin transfer molding flammability residual stress casting flow resistance composite materials ∞ strength fracture strength curing fabrication tensile strength fusibility fiber composites Hall resistance residual stress DEF In structures, any stress in an unloaded body. These stresses arise from local yielding of the material due to machining, weldinjection molding ∞ high resistance immunity matrix materials impact resistance molding materials impact strength ing, quenching or cold working. Used for internal molds impedance polymer matrix composites stress. UF Kapitza resistance internal stress preforms reinforcing fibers life (durability) GS stresses ∞ low resistance residual stress resin film infusion magnetoresistivity RT creep properties resin matrix composites moisture resistance machining negative resistance circuits relaxation (mechanics) resins negative resistance devices resins residual strength GS oxidation resistance strain hardening alkyd resins permeability stress relaxation ion exchange resins prevention stress relieving polyimide resins protection stress-strain relationships polyurethane resins quality temperature inversions silicone resins radiation tolerance . synthetic resins resistance thermometers residues . . addition resins retarding RT ashes acrylic resins sensitivity organic wastes (fuel conversion) . . . vinyl copolymers shock resistance reaction products polyester resins skin resistance solid wastes . . polyether resins stability waste treatment PÉEK thermal resistance waste water ... polymethyl methacrylate tolerances (physiology) wastes . . thermoplastic resins transconductance ... PEEK vulnerability resilience quinoxalines wave resistance mechanical properties . . . thermoplastic films wear resistance . resilience . . thermosetting resins compressive strength ... epoxy resins elastic properties . phenolic epoxy resins resistance coefficients USE resistance shear properties . . . furan resins springs (elastic) . . . . polyamide resins tensile strength . . . . . Kevlar (trademark) resistance heating . Nylon (trademark) UF Joule heating resin bonding ... phenolic resins heating GS . . . . micarta . resistance heating GS bonding resin bonding . . . phenolic epoxy resins arc heating electroslag refining adhesive bonding

acrylates Bakelite (trademark)

gas heating

metal bonding

levitation melting

#### resistance thermometers

measuring instruments

. temperature measuring instruments

. . thermometers

. . resistance thermometers

RT bolometers ohmmeters

∞ resistance temperature measurement thermocouple pyrometers

USE electrical resistivity

#### resistojet engines

resistojets GS engines

. rocket engines

. . electric rocket engines . . . electrothermal engines

. . . resistojet engines

RT arc jet engines plasma engines pulsed jet engines space station propulsion

USE resistojet engines

#### resistors

tunnel resistors GS attenuators

. resistors

. . potentiometers (resistors)

. printed resistors . thermistors

ballasts (impedances) electric conductors

electric filters electric reactors

 $\infty$  filaments

photoconductors

semiconductors (materials)

solid state devices

varistors

#### resolution

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.

UF resolving power

#### GS resolution

. 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

errors

high resolution coverage antennas

image contrast

image enhancement

legibility loci

numerical aperture

∞ optics

perception power

precision

resolution cell sensitivity

spatial filtering Stark effect

∞ thresholds tolerances (mechanics)

visibility vision

#### resolution cell

RT ∞ cells

imaging techniques radar detection radar imagery resolution

#### resolvers

analog computers instrument transformers transformers

resolving power USE resolution

#### resonance

DEF The phenomena of amplification of a 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 upon the system or from a boundary condition. The growth of the resonant amplitude is characteristically linear in time. Of a system in forced oscillation, the condition which exists when any change, however small, in the frequency of excitation causes a decrease in the response of the system.

#### GS resonance

. baryon resonance

. cyclotron resonance

. . electron cyclotron resonance . magnetic resonance

. ferromagnetic resonance
. nuclear magnetic resonance
. proton magnetic resonance
. proton resonance

. . paramagnetic resonance

. electron paramagnetic resonance

. magnetosonic resonance

. meson resonance

. . X mesons acoustic resonance

. microwave resonance

. nuclear quadrupole resonance

optical resonance

. orbital resonances (celestial

mechanics)

. plasma resonance

. resonant vibration

spin resonance Foster theory

oscillations

Overhauser effect

resonant frequencies

syntony tuning

vibration

#### resonance charge exchange

GS exchanging

. charge exchange

. resonance charge exchange

spin exchange

# resonance fluorescence

DEF The emission of radiation by a gas or vapor as a result of excitation of atoms to a higher energy level by incident photons at the resonance frequency of the gas or vapor. Used for resonance radiation.

resonance radiation

GS emission

. light emission . . Iuminescence

. . . fluorescence

. resonance fluorescence

RT atomic excitations

atomic physics quantum electrodynamics ∞ radiation

#### resonance lines

Spectral lines which occur either as absorption or emission lines. Used for dielectronic satellite lines.

dielectronic satellite lines

line spectra optical resonance plasma resonance

#### resonance probes

measuring instruments

resonance probes

impedance probes magnetic probes microwave plasma probes plasma diagnostics plasma resonance

tuners

resonance radiation

USE resonance fluorescence

resonance scattering
SN (INTERACTION WITH THE INTERIOR OF THE NUCLEUS-EXCLUDES POTENTIAL SCATTERING).

nuclear reactions

. nuclear scattering resonance scattering

scattering . nuclear scattering

. resonance scattering

inverse scattering Mossbauer effect neutron scattering

#### resonance testing

damping tests elastic damping electronic equipment tests fatigue tests resonant frequencies stability tests static tests structural stability ∞ tests

resonant cavities USE cavity resonators

vibration tests

viscous damping

# resonant frequencies

DEF Frequencies at which resonance exists. Used for natural frequencies and vibrational frequencies (structural).

natural frequencies UF

vibrational frequencies (structural)

GS frequencies

resonant frequencies acoustic frequencies acoustic resonance

antinodes bandwidth beat frequencies

Bordoni peaks cavity resonators critical frequencies

critical velocity

damping dynamic characteristics

∞ dynamics electromagnetic absorption

harmonics impedance Mossbauer effect

nodes (standing waves) oscillators resonance resonance testing resonators

standing waves transient response

tuners

resonant tunneling energy policy engineering management (added September 1988) logistics  RT barrier layers NASA Interactive Planning electron tunneling outer space treaty priorities quantum electronics products	
(added September 1988)  RT barrier layers electron tunneling negative resistance devices  logistics NASA Interactive Planning outer space treaty priorities	respiration
RT barrier layers NASA Interactive Planning electron tunneling outer space treaty negative resistance devices priorities	DEF The interchange of gases of living or-
electron tunneling outer space treaty negative resistance devices priorities	
negative resistance devices priorities	they live. Used for apnea and inhalation.
	UF apnea
quantum electronics products	inhalation
quantum wells resources	GS respiration
resonant tunneling diodes	. high altitude breathing
transistors	. liquid breathing
tunnel diodes resources ∞ tunneling GS resources	. pressure breathing
∞ tunneling GS <b>resources</b> . Earth resources	RT alveoli
resonant tunneling diodes forests	asphyxia ∞ breathing
(added September 2008) rain forests	expiration
DEF Solid-state, nanoelectronic devices ca fossil fuels	expired air
pable of producing negative differential resis coal	hydrogen metabolism
tance comprised of one or more narrow quan-	metabolism
tum well structures each containing only a lignite	oxygen metabolism
single, resonant energy level solvent refined coal	photosynthesis
GS electronic equipment crude oil	physiology
. diodes natural gas	plant physiology
semiconductor diodes liquefied natural gas	respirators
tunnel diodes peat shale oil	respiratory system
solid state devices	resuscitation sinuses
semiconductor devices icebergs	Valsalva exercise
resonant tunneling diodes kerogen	Valoutva CACICISC
negative resistance devices land ice	respirators
. resonant tunneling diodes marine resources	GS medical equipment
RT barrier layers oil fields	respirators
heterojunctions range resources	RT breathing apparatus
holes (electron deficiencies) springs (water)	emergency breathing techniques
integrated circuits tar sands	respiration
nanotechnology thermal resources	resuscitation
negative resistance circuits geothermal resources quantum electronics geysers	therapy
quantum electronics geysers quantum wells underwater resources	respiratory diseases
resonant tunneling water resources	GS diseases
∞ solid state physics aquifers	. respiratory diseases
. extraterrestrial resources	aerosinusitis
resonant vibration lunar resources	asthma
UF mechanical resonance . Internet resources	emphysema
GS resonance websites	influenza
. resonant vibration RT abundance	pneumonia
vibration availability	tuberculosis
resonant vibration consulting	RT beryllium poisoning
RT acoustic resonance depletion	congestion
damping economic development	fungal diseases
damping economic development dynamic stability economic factors	lung morphology
damping       economic development         dynamic stability       economic factors         ∞ dynamics       economic impact	
damping       economic development         dynamic stability       economic factors         ∞ dynamics       economic impact         flapping       economics	lung morphology
damping       economic development         dynamic stability       economic factors         ∞ dynamics       economic impact         flapping       economics         flutter       energy conservation	lung morphology pulmonary lesions
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damping dynamic stability economic development dynamic stability economic factors  odynamics economic impact economics flapping economics flutter enechanical oscillators energy conservation energy policy engineering management goothermal technology stable oscillations gracultural vibration undamped oscillations  Tesonators  DEF In radio and radar applications, circuits which will resonate at a given frequency, or over a range of frequencies, when properly excited.  GS resonators  . cavity resonators . superconducting cavity resonators . Helmholtz resonators . optical resonators . optical resonators electron tubes frequency standards grazing flow magnetrons masers masers oscillators resonators resonators resonators  FT delta antennas electron tubes frequency standards grazing flow magnetrons masers oscillators resonators resonators resonators resonators resonators resource allocation tuning tuning fork gyroscopes  resource allocation  resource allocation  inpact economic development economic impact economic impact economic impact economic impact economics energy conservation energy policy energreener energy coles energy conservation energy conservation energy conservation energy policy energreener energy conservation energy po	lung morphology pulmonary lesions  respiratory impedance GS impedance . respiratory impedance  respiratory physiology GS physiology . respiratory physiology PT exercise physiology  science  respiratory rate GS rates (per time) . respiratory rate . dyspnea . hypoventilation . tachypnea RT hypercapnia hyperpnea spirometers  respiratory reflexes GS reflexes . cough . Hering-Brever reflex . sneezing RT ∞ breathing  respiratory system GS anatomy . respiratory system GS anatomy . respiratory system
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damping dynamic stability  ∞ dynamics  dynamics flapping flutter mechanical oscillators oscillations Q factors stable oscillations undamped oscillations  DEF In radio and radar applications, circuits which will resonate at a given frequency, or over a range of frequencies, when properly excited. GS resonators  RT delta antennas electron tubes frequency standards grazing flow magnetrons masers oscillators resonat frequencies self excitation tuning tuning fork gyroscopes  resource allocation  resource allocation  geothermal technology Great Lakes (North Americation inventory management logistics logistics management interaction man environment management logistics logistics management man environment management environment management environment management  economics economics economics economics economics economics economics energy conservation e	lung morphology pulmonary lesions  respiratory impedance GS impedance respiratory physiology GS physiology respiratory physiology RT exercise physiology exercise physiology science  respiratory rate GS rates (per time) respiratory rate dyspnea hypoventilation tachypnea RT hypercapnia hyperapnia hyperpnea spirometers  respiratory reflexes GS reflexes respiratory reflexes Sreflexes respiratory reflexes respiratory reflexes spirometers  respiratory reflexes respiratory reflexes anatomy respiratory system GS anatomy respiratory system GS anatomy respiratory system GS anatomy respiratory system diaphragm (anatomy)
damping dynamic stability  ∞ dynamics	lung morphology pulmonary lesions  respiratory impedance GS impedance . respiratory impedance  respiratory physiology GS physiology . respiratory physiology . respiratory physiology  RT exercise physiology . science  respiratory rate GS rates (per time) . respiratory rate . dyspnea . hypoventilation . tachypnea RT hypercapnia hyperpnea spirometers  respiratory reflexes GS reflexes . respiratory reflexes . cough . Hering-Brever reflex . sneezing RT ∞ breathing  respiratory system GS anatomy . respiratory system . bronchi . diaphragm (anatomy) . larynx
damping dynamic stability  ∞ dynamics flapping flutter mechanical oscillators oscillations Q factors stable oscillations structural vibration undamped oscillations  Tesonators  DEF In radio and radar applications, circuits which will resonate at a given frequency, or over a range of frequencies, when properly excited. GS resonators  Lelmholtz resonators  Tell delta antennas electron tubes frequency standards grazing flow magnetrons masers oscillation  Tesonate frequencies self excitation tuning tuning fork gyroscopes  resource allocation GS allocations  resource allocation management economic factors enconomic factors enconomic factors economic factors economic factors economic factors economic factors economic factors economic factors enconomic factors economic factors economic factors economic factors enconomic factors enconomic factors enconomic factors enconomic factors enconomic factors enconomic factors economic factors economic factors enconomic factors enconomic factors enconomic factors enconomic factors enconomic factors enconomics energy coliev engineering management ioventory engineering management management    logistics     logistics     logistics management     wman environment interaction management   wmaterials   Mississippi River (US)   personnel     personnel     peventrial technology Great Lakes (North Americ inventory management   logistics   logistics     logistics	lung morphology pulmonary lesions  respiratory impedance GS impedance . respiratory impedance  respiratory physiology GS physiology . respiratory physiology  RT exercise physiology . science  respiratory rate GS rates (per time) . respiratory rate dyspnea hypoventilation tachypnea RT hypercapnia hyperpnea spirometers  respiratory reflexes GS reflexes . cough . Hering-Brever reflex . sneezing RT ∞ breathing  respiratory system GS anatomy . respiratory system . bronchi . diaphragm (anatomy) . larynx glottis

	alveoli		reconstruction		retention (psychology)
	nose (anatomy)				
	paranasal sinuses pharynx	restrain USE	তে constraints		on (psychology)
	trachea	USL	Constraints	RT	learning memory
RT	evaporation	restricti	ons	c	retention
	homeostasis	USE	constrictions		
	hypercapnia			reticles	•
	organs	resulta		DEF	Systems of lines or wires placed in the
	pleurae	DEF RT	The sums of two or more vectors. vector analysis		ane of an optical instrument to serve as a
	pulmonary circulation respiration	nı	vector analysis		ce. Also called a reticule. reticles
~	systems	resusci	tation	us	. wire grid lenses
	-,	UF	artificial respiration	RT	contact lenses
respiro	meters	RT	emergency breathing techniques		eyepieces
GS	measuring instruments		first aid	c	∞ grids
	respirometers		liquid breathing respiration		lenses
RT	bioinstrumentation		respirators		optical equipment
	exhalation				scale (ratio)
		retainir	ıg	reticulo	ocvtes
respond		RT	asteroid capture	GS	•
USE	transponders		constraints		. blood cells
respons	no hino		containment • holding		erythrocytes
GS	bias		o holding o joining	DT	reticulocytes
ao	. response bias		locking	RT	hematology hemoglobin
RT	dynamic response	0	∘ retention		hemolysis
	errors		sealing		hemorrhages
~	time response	0	∘ storage		
	transient response	rotordo	nto	retina	
		retarda GS	retardants	GS	anatomy
	se time (computers)	ao	. flame retardants		. sense organs
GS	time . response time (computers)	RT	accelerating agents		eye (anatomy) <b>retina</b>
RT	computer programming		additives		fovea
• • • •	computer systems performance		antiicing additives	RT	electroretinography
	data processing		antiknock additives		phosphene
	parallel processing (computers)		antioxidants catalysts		photoreceptors
			explosion suppression		vision
respons			inhibitors		visual fields
DEF	Of devices or systems, the motions (or		neutralizers		visual pigments
	utput) resulting from excitation under d conditions.		penetrants	retinal	adaptation
	responses		preservatives	GS	adaptation
ao	. dynamic response	0	o retarders		retinal adaptation
	transient response		retarding stabilizers (agents)		dark adaptation
	frequency response		suppressors		light adaptation
	. galvanic skin response		surfactants	RT	perception
	. modal response		wear inhibitors		visibility vision
	. physiological responses hemodynamic responses				VISIOIT
RT	chronaxy	∞ retarde		retinal	images
•••	learning	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		images
	refractory period	DT	LISTED BELOW)		. retinal images
~	thresholds	RT	retardants	RT	vision
	time lag		retarders (devices)		visual fields
~	time response	retarde	rs (devices)	retinen	9
			blocking	UF	vitamin A
rest GS	root		brakes (for arresting motion)	GS	organic compounds
us	rest . bed rest		braking		cyclic compounds
RT	prone position		constrictions • retarders		heterocyclic compounds
	recreation	C	retarding		<b>retinene</b> . lipids
	sitting position		Totalding		. retinene
	sleep	retardir	ng		vitamins
	supine position	UF	suppression		. retinene
		RT	attenuation	RT	aldehydes
	ble rocket engines		blocking		carotene
GS	engines . rocket engines		braking damping		•
	restartable rocket engines		deceleration	retirem RT	
RT	ducted rocket engines		fouling	n i	employee relations industries
	electric rocket engines		hysteresis		personnel
	electrostatic engines		prevention		sociology
	electrothermal engines		o reduction		
	hybrid propellant rocket engines ion engines	c	∘ resistance retardants		ent for cause
	liquid propellant rocket engines		retardants retarders (devices)		Procedure, primarily on aircraft, based
	nuclear rocket engines		stopping		ure mechanics, which allows safe utilizane full life capacities of each component.
	retrorocket engines		•	RT	component reliability
	solid propellant rocket engines		g ion mass spectrometers		engine parts
	sustainer rocket engines	USE	mass spectrometers		fatigue life
					fracture strength
	turborocket engines	m retenti	nn .		
	Vernier engines	∞ retention			inventory management
restore	Vernier engines		(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		inventory management life (durability)
restorat	Vernier engines		(USE OF A MORE SPECIFIC TERM IS		inventory management

spare parts lunar retroreflectors spacecraft launching reflected waves spacecraft recovery RETORC (torpedoes) retroreflectors vehicles USE torpedoes satellite laser ranging X-37 vehicle X-40A vehicle retort processing retroreflectors One method for converting shale oil Class of optical instruments which reusable rocket engines into oil similar to petroleum oils. cause reflected radiation to return along paths GS engines fractionation RT parallel to those of their corresponding incident . rocket engines hydrocarbon fuels . reusable rocket engines oils radar equipment oxygen-hydrocarbon rocket engines ∞ processing retroreflectors shale oil reusable spacecraft reflectors retroreflectors GS reentry vehicles retractable equipment laser ranging . recoverable spacecraft retractable landing gear radar corner reflectors reusable spacecraft aerodynamic brakes retroreflection ... aerospace planes landing gear satellite laser ranging . . . . HOPE aerospace plane refueling .... HOTOL launch vehicle VentureStar launch vehicle retrorocket engines retractable landing gear . . . . X-30 vehicle DEF Rocket engines fitted on or in spacelanding gear craft, satellites, or the like to produce thrust . . . . X-37 vehicle retractable equipment opposed to forward motion. . . . . X-40A vehicle GS engines ... MARS (Manned Reusable retraining . rocket engines Spacecraft) UF reorientation . retrorocket engines . . . single stage to orbit vehicles RT adaptation . . BE-3 engine . . . . Delta Clipper education control rockets . HOTOL launch vehicle RT management methods internal combustion engines . . . space shuttles manpower . Buran space shuttle liquid propellant rocket engines personnel man operated propulsion systems Hermes manned spaceplane tasks Space Shuttle orbiters restartable rocket engines training analysis . . . . Atlantis (orbiter) retrofiring .... Challenger (Orbiter)
.... Columbia (Orbiter) retrothrust retrieval solid propellant rocket engines GS retrieval . . . . Discovery (Orbiter) . . . . Endeavour (orbiter) . data retrieval retrothrust . information retrieval Thrust used for a braking maneuver; DEF .... Enterprise (Orbiter) . payload retrieval (STS) reverse thrust. Used for retroaction. expendable stages (spacecraft) RT ∞ recovery retroaction UF ferry spacecraft searching GS thrust Inertial Upper Stage . rocket thrust interim stages (spacecraft) retroaction . retrothrust interplanetary spacecraft USE retrothrust RT deceleration landing modules retrofiring lunar landing modules retrofiring firing (igniting) . rocket firing retrorocket engines manned spacecraft GS Saenger space transportation system return beam vidicons . retrofiring soft landing spacecraft deceleration GS electron tubes Space Shuttle Boosters retrorocket engines camera tubes unmanned spacecraft . . vidicons X-33 reusable launch vehicle retrothrust ... return beam vidicons X-34 reusable launch vehicle ... thermicons DEF Modification of equipment to incorpo-RT television cameras reuse rate changes made in later production of similar GS utilization return to Earth space flight equipment; the changes may be performed in the factory or in the field. space flight software reuse return to Earth space flight retrofitting oil recovery GS Assured Crew Return Vehicle acoustic retrofitting ∞ recovery interplanetary flight installing manned Mars missions revenue retrograde orbits Mars missions RT allocations (added June 1995) spacecraft reentry assessments DEF Motion in an orbit opposite to the usual X-38 crew return vehicle budgeting orbital direction of celestial bodies within a given costs system. Specifically, of a satellite, motion in a reusable heat shielding international trade direction opposite to the direction of rotation of GS shielding . heat shielding the primary. reverberation orbits . . reusable heat shielding The persistance of sound in an en-ĠS retrograde orbits RT cooling closed space, as a result of multiple reflections, heat transfer after the sound source has stopped. The sound interacting galaxies orbital mechanics reentry shielding that persists in an enclosed space, as a result of planetary orbits spacecraft shielding repeated reflection or scattering after the source temperature control of the sound has stopped. precession thermal control coatings satellite orbits acoustic properties spacecraft orbits thermal protection . acoustic scattering . . reverberation stellar orbits reusable launch vehicles scattering three body problem launch vehicles . wave scattering . . acoustic scattering retroreflection . reusable launch vehicles Reflection wherein the reflected rays . . single stage to orbit vehicles . . reverberation return along paths parallel to those of their ... Delta Clipper RT echoes

#### RT

. retroreflection antenna arravs incident radiation

reflection

LAGEOS (satellite) laser ranging

corresponding incident rays. Also called retrof-

Advanced Launch System (STS) Aeromaneuvering Orbit to Orbit

HOTOL launch vehicle

. . X-33 reusable launch vehicle

X-34 reusable launch vehicle

Shuttle

recoverable launch vehicles

rocket engines

reverberation chambers

noise (sound)

sound waves

DEF Chambers designed to eliminate outside noise for accurate acoustic measurement. GS compartments

reverberation chambers

lection.

GS

. 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.

ĞS 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.

osmosis GS

. reverse osmosis

demineralizing desalinization membranes permeating

reverse time

USE reaction time

#### reversed flow

fluid flow GS reversed flow

boundary layer separation recirculative fluid flow reversing separated flow

#### reversing

RT ∞ direction

reverse engineering reversed flow

#### reviewing

RT ∞ discussion evaluation examination training evaluation

#### revisions

alteration UF modification RT adjusting contracts correction extensions variations

revolution (motion) USE revolving

Moving in a path about an axis, usually external to the body accomplishing the motion. Used for revolution (motion).

revolution (motion) gyration GS

revolving RT angular velocity centripetal force rotation

reward (psychology)

reinforcement (psychology) GS

reward (psychology)

comfort human reactions psychological factors

#### Reynolds averaging

(added October 1997) GS analysis (mathematics) . numerical analysis

. . approximation

... Reynolds averaging

average

boundary layer equations

computational fluid dynamics

flow equations large eddy simulation Navier-Stokes equation Reynolds stress

turbulence models

#### Reynolds equation

Reynolds law

equations of motion GS

Reynolds equation

flow equations

Reynolds equation aerodynamic configurations

∞ equations

Navier-Stokes equation scale models

Reynolds law

USE Reynolds equation

#### Reynolds number

DEF A nondimensional parameter representing the ratio of the momentum forces to the viscous forces in fluid flow. (After Osborne Reynolds, 1842-1912, English scientist). Used for critical Reynolds number.

critical Reynolds number

dimensionless numbers

. Reynolds number

. . high Reynolds number low Reynolds number

ratios

. Reynolds number

. . high Reynolds number

. low Reynolds number boundary layer flow boundary layer stability boundary layer transition

critical velocity fluid flow Froude number Grashof number inviscid flow laminar flow

Peclet number Prandtl number Richardson number scale effect transition points

turbulent flow viscous flow

#### Reynolds stress

DEF In the mathematical treatment of a viscous, imcompressible, homogeneous fluid in turbulent motion, that represents the transfer of momentum due to turbulent fluctuations.

stresses GS

#### Reynolds stress

incompressible flow RT Navier-Stokes equation Reynolds averaging turbulent boundary layer turbulent flow

RF-4 aircraft

USE F-4 aircraft

RF-8 aircraft

USE F-8 aircraft

RFI (composite materials) (added August 1997) USE resin film infusion

RH-2 helicopter

USE UH-1 helicopter

#### Rhea (astronomy)

DEF A natural satellite of the planet Saturn orbiting at a mean distance of 527,000 kilome-

celestial bodies

. natural satellites

...icy satellites
...Rhea (astronomy)

. . Saturn satellites

. Rhea (astronomy)

Saturn (planet) solar system

#### rhenium

chemical elements GS

. rhenium

. . rhenium isotopes

metals

. refractory metals

. . rhenium

. rhenium isotopes

. transition metals

. . rhenium

. rhenium isotopes refractory materials

. refractory metals

. . rhenium

. . . rhenium isotopes

### rhenium alloys

GS alloys

. heat resistant alloys

. . refractory metal alloys

. . rhenium alloys

refractory materials . refractory metal alloys

. . rhenium alloys

#### rhenium compounds

RT ∞ chemical compounds

∞ Group 7B compounds

∞ metal compounds

# rhenium isotopes

GS chemical elements nuclides

. . isotopes

. rhenium isotopes

. rhenium

. . rhenium isotopes metals

. refractory metals

. . rhenium . rhenium isotopes

. transition metals

. . rhenium

. rhenium isotopes refractory materials

. refractory metals

. . rhenium

.. rhenium isotopes

RT radioactive isotopes

#### rheocasting

DEF Use of partially solidified metal alloys (fractions solids) fed directly into a casting machine for forming into machine parts.

GS forming techniques

. casting

alloys cast alloys dies forging slurries

	solidification	DT	. rhodium alloys		silicon dioxide
rheoele	ectrical simulation	RT	platinum alloys	∞ rhythm	
	simulation	rhodiur	n compounds	SN	(USE OF A MORE SPECIFIC TERM IS
	. rheoelectrical simulation		chemical compounds		RECOMMENDEDCONSULT THE TERMS
RT	analog circuits		Group 8 compounds	RT	LISTED BELOW) oscillations
	analog simulation				periodic variations
	bionics	rhodiur	n isotopes		rhythm (biology)
	flow distribution		rhodium 102		
rheoen	cephalography		rhodium 106		(biology)
RT	blood circulation	GS	chemical elements	UF	biological clocks
	brain		. nuclides		biological rhythm biorhythms
	brain circulation		isotopes		chronobiology
			rhodium isotopes . rhodium		periodicity (biology)
rheolog			rhodium isotopes	GS	rhythm (biology)
of matte	The study of the deformation and flow		metals		. circadian rhythms
RT	electrorheological fluids		. transition metals	RT	activity cycles (biology)
	flow measurement		rhodium		alternations
	flow theory		rhodium isotopes	0	∘ biology cycles
0	∞ fluids				desynchronization (biology)
	liquid flow		c antennas		jet lag
	magnetorheological fluids		Antennas composed of long wire ra-		phenology
	Maxwell fluids nonNewtonian fluids		comprising the sides of a rhombus. The usually is terminated in an impedance.	0	· rhythm
	plastic flow		es of the rhombus, the angle between		zeitgebers
	plastic flow plastic properties		s, the elevation, and the termination are		narachutae
	viscosity		oned to give the desired directivity.		parachutes Parachutes having a canopy consist-
	•		antennas		Parachutes naving a canopy consist- n arrangement of closely spaced tapes.
rheome			directional antennas	These n	parachutes have high porosity with atten-
GS	measuring instruments		. rhombic antennas		bility and slight opening shock.
	. flowmeters rheometers	RT	antenna design radio antennas		parachutes
RT	blood circulation		radio antennas		. ribbon parachutes
	blood officiation	rhombo	hedrons	RT	drag chutes
Rhesus	s factor	GS	geometry		recovery parachutes
RT		ac	. Euclidean geometry	ribbons	•
	blood		polyhedrons		conveyors
	congenital anomalies		rhombohedrons		fabrics
rheuma	atic diseases				fasteners
	diseases	rhombo			metal strips
	rheumatic diseases		Parallelograms whose adjacent sides		∘ strip ∘ tapes
RT	arthritis	are not GS	equal. geometry		apes
rhizopu	IS .	do	. Euclidean geometry	riblets	
GS			polygons		ed October 1988)
	. fungi		tetragons		Longitudinal striations forming
	rhizopus		parallelograms		ed grooves on aerodynamic and hydro-
	blight		rhomboids		surfaces. The riblet devices act to large-scale disturbances near the
0	∞ mold				ry layer. These grooves are dimensiona
rhodan	nine	rho-me	s <b>ons</b> particles		order of the wall vortices and turbulent
	led July 1988)	do	. elementary particles	dimensi	
	dyes		bosons	GS	grooves
	rhodamine		mesons		. V grooves
	organic compounds		vector mesons	DT	riblets
	. cyclic compounds		rho-mesons	RT	boundary layer control drag reduction
РΤ	rhodamine		fermions		friction drag
RT	amines dye lasers		baryons		shear layers
	fluorescence		<b>rho-mesons</b> hadrons		skin friction
	laser materials		baryons		striation
			rho-mesons		turbulent boundary layer
			mesons		vortex alleviation
			111650115		
	nations		vector mesons	riboflov	in
	nations . United States		vector mesons	riboflav	
GS	nations . United States Rhode Island		vector mesons rho-mesons . nuclear particles	<b>riboflav</b> UF	vitamin B 2
GS	nations . United States		vector mesons rho-mesons . nuclear particles . bosons		
GS RT	nations . United States Rhode Island Block Island Sound (RI)		vector mesons rho-mesons . nuclear particles . bosons mesons	UF	vitamin B 2 vitamin G organic compounds . cyclic compounds
GS RT <i>Rhodes</i>	nations . United States Rhode Island Block Island Sound (RI)		vector mesons rho-mesons . nuclear particles . bosons mesons vector mesons	UF	vitamin B 2 vitamin G organic compounds cyclic compounds heterocyclic compounds
GS RT Rhodes USE	nations . United States Rhode Island Block Island Sound (RI) sia Zimbabwe	RT	vector mesons rho-mesons .nuclear particles .bosons mesons vector mesons rho-mesons	UF	vitamin B 2 vitamin G organic compounds . cyclic compounds . heterocyclic compounds riboflavin
GS RT Rhodes USE rhodiur	nations . United States Rhode Island Block Island Sound (RI) sia Zimbabwe	RT	vector mesons rho-mesons . nuclear particles . bosons mesons vector mesons	UF	vitamin B 2 vitamin G organic compounds . cyclic compounds . heterocyclic compounds riboflavin vitamins
GS RT Rhodes USE	nations . United States Rhode Island Block Island Sound (RI) sia Zimbabwe m chemical elements	RT	vector mesons rho-mesons . nuclear particles . bosons mesons vector mesons rho-mesons charged particles	UF	vitamin B 2 vitamin G organic compounds . cyclic compounds . heterocyclic compounds riboflavin
GS RT Rhodes USE rhodiur	nations . United States Rhode Island Block Island Sound (RI) sia Zimbabwe m chemical elements . rhodium		vector mesons rho-mesons . nuclear particles . bosons mesons vector mesons rho-mesons charged particles	UF GS	vitamin B 2 vitamin G organic compounds . cyclic compounds . heterocyclic compounds riboflavin vitamins
GS RT Rhodes USE rhodiur	nations . United States . Rhode Island Block Island Sound (RI) sia Zimbabwe m chemical elements . rhodium . rhodium isotopes	Rhone	vector mesons rho-mesons . nuclear particles . bosons mesons vector mesons rho-mesons charged particles eta-mesons  Delta (France) landforms	UF GS ribonuc	vitamin B 2 vitamin G organic compounds cyclic compounds heterocyclic compounds riboflavin vitamins riboflavin
GS RT Rhodes USE rhodiur	nations . United States Rhode Island Block Island Sound (RI) sia Zimbabwe m chemical elements . rhodium	Rhone	vector mesons rho-mesons .nuclear particles .bosons mesons vector mesons rho-mesons charged particles eta-mesons  Delta (France) landforms . deltas	UF GS <b>ribonuc</b> DEF	vitamin B 2 vitamin G organic compounds . cyclic compounds . heterocyclic compounds riboflavin vitamins . riboflavin
GS RT Rhodes USE rhodiur	nations . United States . Rhode Island Block Island Sound (RI) sia Zimbabwe m chemical elements . rhodium . rhodium isotopes metals	Rhone GS	vector mesons rho-mesons .nuclear particles .bosons .mesons vector mesons rho-mesons charged particles eta-mesons  Delta (France) landforms . deltas . Rhone Delta (France)	ribonuc DEF cytoplas protein s	vitamin B 2 vitamin G organic compounds . cyclic compounds . heterocyclic compounds . riboflavin vitamins riboflavin seleic acids A chemical found in the nucleus and of cells. It plays an important role in synthesis and other chemical activities of
GS RT Rhodes USE rhodiur	nations . United States . Rhode Island Block Island Sound (RI) sia Zimbabwe m chemical elements . rhodium . rhodium isotopes metals . transition metals	Rhone	vector mesons rho-mesons . nuclear particles . bosons mesons vector mesons rho-mesons charged particles eta-mesons  Delta (France) landforms . deltas . Rhone Delta (France) France	ribonuc DEF cytoplas protein s the cell.	vitamin B 2 vitamin G organic compounds . cyclic compounds . heterocyclic compounds . riboflavin vitamins . riboflavin sleic acids A chemical found in the nucleus and more of cells. It plays an important role in synthesis and other chemical activities of Used for RNA, messenger RNA, trans-
GS RT Rhodes USE rhodiur GS	nations . United States . Rhode Island Block Island Sound (RI) sia Zimbabwe m chemical elements . rhodium . rhodium isotopes metals . transition metals . rhodium rhodium rhodium	Rhone GS	vector mesons rho-mesons . nuclear particles . bosons mesons vector mesons rho-mesons charged particles eta-mesons  Delta (France) landforms . deltas Rhone Delta (France) France Mediterranean Sea	ribonuc DEF cytoplas protein s the cell. fer RNA	vitamin B 2 vitamin G organic compounds . cyclic compounds . heterocyclic compounds . riboflavin vitamins . riboflavin eleic acids A chemical found in the nucleus and m of cells. It plays an important role in synthesis and other chemical activities of Used for RNA, messenger RNA, trans-
GS RT Rhodes USE rhodiur GS	nations . United States . Rhode Island Block Island Sound (RI) sia Zimbabwe m chemical elements . rhodium . rhodium isotopes metals . transition metals . rhodium . rhodium . rhodium . rhodium . rhodium	Rhone GS	vector mesons rho-mesons . nuclear particles . bosons mesons vector mesons rho-mesons charged particles eta-mesons  Delta (France) landforms . deltas . Rhone Delta (France) France	ribonuc DEF cytoplas protein s the cell. fer RNA	vitamin B 2 vitamin G organic compounds . cyclic compounds . heterocyclic compounds . riboflavin vitamins . riboflavin eleic acids A chemical found in the nucleus and sm of cells. It plays an important role in synthesis and other chemical activities of Used for RNA, messenger RNA, transformersenger RNA messenger RNA
GS RT Rhodes USE rhodiur GS	nations . United States . Rhode Island Block Island Sound (RI) sia Zimbabwe m chemical elements . rhodium . rhodium isotopes metals . transition metals . rhodium rhodium rhodium	Rhone GS RT	vector mesons rho-mesons .nuclear particles .bosons vector mesons rho-mesons charged particles eta-mesons  Delta (France) landforms deltas . Rhone Delta (France) France Mediterranean Sea rivers	ribonuc DEF cytoplas protein s the cell. fer RNA	vitamin B 2 vitamin G organic compounds . cyclic compounds . heterocyclic compounds . riboflavin vitamins . riboflavin eleic acids A chemical found in the nucleus and of cells. It plays an important role in synthesis and other chemical activities of Used for RNA, messenger RNA, transu, and ribosomal RNA messenger RNA ribosomal RNA
GS RT Rhodes USE rhodiun GS	nations . United States . Rhode Island Block Island Sound (RI) sia Zimbabwe  m chemical elements . rhodium . rhodium isotopes metals . transition metals . rhodium . rhodium isotopes metals . rhodium . rhodium isotopes	Rhone GS RT rhyolite	vector mesons rho-mesons .nuclear particles .bosons .mesons vector mesons rho-mesons charged particles eta-mesons  Delta (France) landforms .deltas .Rhone Delta (France) France Mediterranean Sea rivers	ribonuc DEF cytoplas protein s the cell. fer RNA UF	vitamin B 2 vitamin G organic compounds . cyclic compounds . heterocyclic compounds . riboflavin vitamins . riboflavin eleic acids A chemical found in the nucleus and em of cells. It plays an important role in synthesis and other chemical activities of Used for RNA, messenger RNA, transe, and ribosomal RNA messenger RNA ribosomal RNA transfer RNA
GS RT Rhodes USE rhodiun GS rhodiun USE rhodiun	nations . United States . Rhode Island Block Island Sound (RI) sia Zimbabwe  m chemical elements . rhodium rhodium isotopes metals . transition metals rhodium rhodium isotopes metals . rhodium rhodium isotopes m 102 rhodium isotopes m 106	Rhone GS RT	vector mesons rho-mesons . nuclear particles . bosons mesons vector mesons rho-mesons charged particles eta-mesons  Delta (France) landforms . deltas . Rhone Delta (France) France Mediterranean Sea rivers	ribonuc DEF cytoplas protein s the cell. fer RNA	vitamin B 2 vitamin G organic compounds . cyclic compounds . heterocyclic compounds . riboflavin vitamins . riboflavin eleic acids A chemical found in the nucleus and of cells. It plays an important role in synthesis and other chemical activities of Used for RNA, messenger RNA, transu, and ribosomal RNA messenger RNA ribosomal RNA
GS RT Rhodes USE rhodiun GS rhodiun USE rhodiun	nations . United States . Rhode Island Block Island Sound (RI) sia Zimbabwe  m chemical elements . rhodium . rhodium isotopes metals . transition metals . rhodium . rhodium isotopes metals . rhodium . rhodium isotopes	Rhone GS RT rhyolite	vector mesons rho-mesons .nuclear particles .bosons .mesons vector mesons rho-mesons charged particles eta-mesons  Delta (France) landforms .deltas .Rhone Delta (France) France Mediterranean Sea rivers	ribonuc DEF cytoplas protein s the cell. fer RNA UF	vitamin B 2 vitamin G organic compounds . cyclic compounds . heterocyclic compounds . riboflavin vitamins . riboflavin eleic acids A chemical found in the nucleus and of cells. It plays an important role in synthesis and other chemical activities of Used for RNA, messenger RNA, transit, and ribosomal RNA messenger RNA ribosomal RNA transfer RNA acids
RT Rhodes USE rhodiun USE rhodiun USE rhodiun USE	nations . United States . Rhode Island Block Island Sound (RI) sia Zimbabwe  m chemical elements . rhodium rhodium isotopes metals . transition metals rhodium rhodium isotopes metals . rhodium rhodium isotopes m 102 rhodium isotopes m 106	Rhone GS RT rhyolite	vector mesons rho-mesons . nuclear particles . bosons mesons vector mesons rho-mesons charged particles eta-mesons  Delta (France) landforms . deltas . Rhone Delta (France) France Mediterranean Sea rivers	ribonuc DEF cytoplas protein s the cell. fer RNA UF	vitamin B 2 vitamin G organic compounds . cyclic compounds . heterocyclic compounds . riboflavin vitamins . riboflavin eleic acids A chemical found in the nucleus and of cells. It plays an important role in synthesis and other chemical activities of Used for RNA, messenger RNA, ribosomal RNA messenger RNA ribosomal RNA transfer RNA acids . nucleic acids

	ribonucleic acids	RT	bridges (landforms)	DT	nylon mounting
		п		RT	pylon mounting
	organic compounds		buckling	atada aa	tau ballaantaua
	. nucleic acids		corrugating	-	tor helicopters
	ribonucleic acids		gaps (geology)	GS	V/STOL aircraft
RT	adenines		karst		. rotary wing aircraft
	gene expression		landforms		helicopters
	genes		mid-ocean ridges		rigid rotor helicopters
	genome		mountains		CH-3 helicopter
	guanosines		protuberances		F-28 helicopter
			*		XH-51 helicopter
	polynucleotides		wrinkling	DT .	
	ribosomes	ad although		HI ∘	o aircraft
	transcription (genetics)	riding o			OH-5 helicopter
		GS	quality		
ribose			. riding quality	rigid ro	
GS	organic compounds	RT	comfort	UF	hingeless rotors
	. carbohydrates		passengers	GS	airfoils
	sugars		seats		. wings
	monosaccharides		suspension systems (vehicles)		rotary wings
	pentose		transportation		rigid rotors
			transportation		rigid structures
DT	ribose	Dioman	n integral		. rigid rotors
RT	nucleosides				
		USE	measure and integration		rotating bodies
ribosom		<b>D</b>			. rotors
USE	ribonucleic acids		n manifold		rotary wings
		UF	Riemann space		rigid rotors
ribosom	nes		Riemann sphere	RT	bearingless rotors
(adde	ed August 2004)	GS	geometry		g
	A class of multi-component structures		differential geometry	rigid ro	tors (plasma physics)
	all cells, in mitochondria, and chloro-		Riemann manifold		
			manifolds (mathematics)		Ensembles of electrons moving in cir
	hey have roles both in genetic transla-				r nearly circular orbits at a constan
	ranscripts and in the manufacture and		. Riemann manifold		frequency.
secretio	n of the proteins.	RT	Euclidean geometry	GS	rigid rotors (plasma physics)
GS	organelles				. plasma physics
	. ribosomes	Rieman	n problem	RT	molecular collisions
RT	cells (biology)	USE	Cauchy problem		molecular rotation
	cytoplasm		* .	~	physics
		Rieman	n space	~	* . *
	ribonucleic acids		Riemann manifold		plasma control
,		002	Thomasin maintoid		
ribs (su		Rioman	n sphere		ructures
RT	longerons		Riemann manifold	UF	inelastic bodies
	reinforcement (structures)	USE	Riemann manifold		rigid bodies
	reinforcement rings	<b>D</b>			stiff structures
	stiffening		in waves	GS	rigid structures
	webs (supports)	GS	elastic waves	0.0	. rigid rotors
	webs (supports)		. shock waves		
Discoti	- mustice		Riemann waves	DT	. rigid wings
	equation	RT	blast loads	RT	
GS	algebra	• • • • • • • • • • • • • • • • • • • •	differential equations		composite materials
	. linear equations				concrete structures
	Riccati equation		dynamic pressure		Euler equations of motion
	analysis (mathematics)		explosions		hybrid structures
	. real variables		hyperbolic functions		plastic bodies
	differential equations				reinforcement (structures)
		Riesz t	heorem		
	Riccati equation	GS	theorems		sandwich structures
	linear equations		. Riesz theorem		space erectable structures
	Riccati equation	RT	differential equations		steel structures
		111		•	∘ structures
rice			hyperbolic functions		translational motion
GS	farm crops				welded structures
	. grains (food)	rifles			Worded Children
	rice	GS	weapons	rigid wi	nge
			. guns (ordnance)	-	
	plants (botany)		rifles	SN	(EXCLUDES 'RIGID ROTORS')
	. rice	RT	artillery	GS	airfoils
RT	wheat				. wings
		DIFT (r	eactor in flight test)		rigid wings
Richard	s theorem	UF	reactor in flight test program		rigid structures
GS	theorems				. rigid wings
	. Richards theorem	RT	electric propulsion	RT	aeroelasticity
RT	network synthesis	0	∘ reactors		fixed wings
111	•		rocket engines		flexible wings
	signal flow graphs		Rover project		
Distant			Saturn project		low aspect ratio wings
	son number		F -3		
	A nondimensional number arising in	rift valle	01/6	∞ rigidity	
the stud	y of shearing flows of a stratified fluid.		valleys	SN	(USE OF A MORE SPECIFIC TERM IS
GS	dimensionless numbers	USL	valleys		RECOMMENDEDCONSULT THE TERMS
	. Richardson number			DT	LISTED BELOW)
	ratios	rifts		RT	•
		USE	geological faults		magnetic rigidity
DT	. Richardson number				mechanical properties
RT	aerodynamic stability	rigging			modulus of elasticity
	Reynolds number	RT	assembling		ruggedness
	shear flow		construction		stiffness
		_	∘ equipment		structural stability
Richards	son-Dushman equation	c			Structural Stability
	temperature effects		materials handling	uilla.	
	thermionic emission		shrouds	rills	
		_		USE	valleys
ridaca		rigid bo	dies		
ridges	//USE OF A MODE OBESIES ====:::	USE	rigid structures	rims	
SN	((USE OF A MORE SPECIFIC TERM IS			RT ∘	∘ blades
	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)	riaid m	ounting		borders
UF	cuestas	GS	mounting		edges
01	hogbacks	ao	. rigid mounting		<u> </u>
	nogodona		. rigia inioanang		margins

sides toruses maximum likelihood estimates Uranus rings operations research ring currents vortex rings predictions reliability GS electric current ring currents rings (mathematics) risk assessment atmospheric electricity RT ∞ mathematics strategy electrojets ∞ rings plasma currents risk assessment Rio Grande (North America) (added March 2008) ring discharge rivers DEF The identification, evaluation, and es-GS electric current **Rio Grande (North America)** timation of the levels of risks involved in a . electric discharges RT Gulf of Mexico situation, their comparison against benchmarks . . Townsend discharge Mexico or standards, and determination of an accept-. . . gas discharges New Mexico able level of risk. . . . toroidal discharge texas GS assessments ... ring discharge risk assessment RT ∞ discharge riometers decision making electrodeless discharges measuring instruments evaluation gas ionization . radiation measuring instruments failure analysis high frequencies . riometers hazards radio frequency discharge atmospheric ionization predictions auroral absorption risk ring galaxies ionograms risk management (added November 1988) ionosondes celestial bodies ĠS ionospheric noise risk management galaxies
. ring galaxies
elliptical galaxies (added April 2008) ionospheric propagation DEF An organized, systematic process that ripples identifies, analyzes, tracks, controls, communigalactic evolution elastic waves cates and documents risks to increase the likegalactic structure . capillary waves lihood of achieving success. interacting galaxies . ripples GS management spiral galaxies surface waves . risk management . capillary waves accident prevention ring lasers ripples decision making ĞS stimulated emission devices project planning risk assessment gravity waves . lasers interfacial tension . . ring lasers water waves safety management wind (meteorology) ring structures RIT engines GS ring structures DEF Radio frequency ion thrustors which generate thrust by converting electric energy into a reaction force by utilizing an electromag-**RISC processors** . reinforcement rings (added March 1995) . ring wings
RT aerodynamic configurations A type of computer processor designed to optimize total system performance by netic field. Used for radio frequency ion thrustor ∞ bands simple, fast decoding of the instructions most engines. hoops commonly employed in computer operations radio frequency ion thrustor engines and characterized by: a simple instruction set with the majority of instructions being single reinforcement (structures) engines . rocket engines ∞ rings with the majority of instructions being single cycle; instructions that are register-to-register with LOAD and STORE commands being the only memory-reference instructions; very few addressing modes; hardwired control; instructions with one or two sizes and with fields at fixed locations; and some degree of pipellining.

UF reduced instruction set computing

GS computer components ∞ structures .. electric rocket engines ... electrostatic engines ring wings . . . . ion engines airfoils ĞS . . . RIT engines . wings RT plasma engines . . uncambered wings ... ring wings Ritz averaging method . . unswept wings GS computer components analysis (mathematics) . central processing units . numerical analysis ring structures . . approximation ring wings architecture (computers) ... Ritz averaging method ducted fans chips (electronics) RT ∞ methodology shrouded propellers computer programming twisted wings river basins computer systems performance firmware GS landforms Ringleb flow pipelining (computers) . structural basins (added July 1998) systems-on-a-chip .. river basins fluid flow ... Atchafalaya River Basin (LA) very large scale integration . compressible flow Chena River Basin (AK) . Ringleb flow . . . Columbia River Basin risers . steady flow RT castings (ID-OR-WA) . Ringleb flow pipes (tubes) Delaware River Basin (US) two dimensional flow ... Feather River Basin (CA) . Ringleb flow Missouri River Basin (US) RT critical flow The combined effect of the liklihood of ... Susquehanna River Basin subsonic flow an unfavorable occurrence and the potential (MD-NY-PA) transonic flow . . . Wabash River Basin (IL-IN-OH) impact of that occurrence. RT acceptability . wadis ∞ rings assumptions Amazon region (South America) (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) ∞ capacity Chesapeake Bay (US) Death Valley (CA) commerce annuli confidence International Hydrological Decade bodies of revolution confidence limits lakes circles (geometry) contingency meanders Jupiter rings decision theory Mississippi River (US) O ring seals Missouri River (US) estimates planetary rings reinforcement rings estimating rapids finance ravines ring structures forecasting rivers rings (mathematics) Sacramento Valley (CA) game theory Saturn rings storage rings (particle accelerators) Saginaw Bay (MI) San Joaquin Valley (CA) hazards inventory controls

mathematical models

Shenandoah Valley (VA)

toroidal plasmas

vadose water inductance sintering LC circuits watersheds **ROBIN** balloons network analysis GS expandable structures rivers network synthesis A general term for natural fresh water DEF time constant . inflatable structures surface streams of considerable volume and transconductance . . balloons permanent or seasonal flow, moving in definite ... meteorological balloons channels toward seas, lakes, or other rivers. **RL-10 engines** . ROBIN balloons Rivers are large streams or ones larger than GS engines RT high altitude balloons brooks or creeks, such as trunk systems and the . rocket engines radiosondes larger branches of drainage systems. . . liquid propellant rocket engines rockoons GS rivers RL-10 engines skyhook balloons Colorado River (North America) .... RL-10-A-1 engine sounding Hudson River (NY-NJ) . . RL-10-A-3 engine Mississippi River (US) Atlas Centaur launch vehicle robot arms Missouri River (US) Centaur project (added January 1990) cryogenic rocket propellants Ohio River (US) UF arms (robotics) Rio Grande (North America) Saturn launch vehicles robot arms . Space Station Mobile Servicing alluvium Amazon region (South America) RL-10-A-1 engine System Atchafalaya River Basin (LA) electroactive polymers GS engines end effectors aufeis (ice) . rocket engines . . liquid propellant rocket engines manipulators bayous canyons ... hydrogen oxygen engines robot dynamics .... RL-10-A-1 engine Columbia River Basin (ID-OR-WA) robotics Delaware River Basin (US) ... RL-10 engines robots . . . . RL-10-A-1 engine deltas Earth resources robot control erosion RL-10-A-3 engine (added December 1990) estuaries GS engines RT adaptive control Feather River Basin (CA) . rocket engines ∞ control . . liquid propellant rocket engines inland waters control systems design control theory ... hydrogen oxygen engines Lake Erie Lake Huron . RL-10-A-3 engine dynamic control feedback control Lake Michigan ... RL-10 engines Lake Ontario . RL-10-A-3 engine inverse kinematics robot dynamics Saturn D launch vehicle Lake Superior meanders robotics **RLC** circuits robots Mississippi Delta (LA) LRC circuits UF unmanned ground vehicles Missouri River Basin (US) RLC networks rapids GS circuits robot dynamics reservoirs . RL circuits (added January 1990) Rhone Delta (France) . RLC circuits robot motion river basins RT capacitance RT dynamic control shoals ∞ dynamics capacitance switches shorelines electrical resistance end effectors sounds (topographic features) gait LC circuits network analysis inverse kinematics surface water Susquehanna River Basin network synthesis manipulators (MD-NY-PA) RC circuits robot arms robot control tributaries time constant transconductance robotics Wabash River Basin (IL-IN-OH) telerobotics RLC networks trajectory planning wadis RLC circuits water color USE robot fingers water runoff roads USE end effectors watersheds GS roads waterways highways robot hands wharves USE end effectors RT ∞ facilities intersections riveted joints passageways robot motion joints (junctions) GS riveted joints pavements USE robot dynamics rapid transit systems bolted joints butt joints site selection robot sensors lap joints streets (added January 1990) transportation GS robot sensors metal joints transportation networks . tactile sensors (robotics) welded joints . torque sensors (robotics) roadway powered vehicles acceleration measurement riveting RT ∞ joining DEF Surface vehicles utilizing a combinacomputer vision tion of an electrical power source embedded in a robotics rivets roadway and an inductive coupled power robots sealing pickup. rivets surface vehicles GS fasteners . roadway powered vehicles electric batteries DEF A discipline that employs the principles . rivets RT electric motor vehicles and techniques of mechanical and electrical couplings engineering and artificial intelligence to develop energy storage holders programmable or self-controlled machines that pins roasting often include sensory systems and a degree of riveting UF calcination intelligence. baking **RL** circuits GŠ robotics LR circuits desulfurizing telerobotics drying heating GS artificial intelligence circuits . RL circuits automata theory . RLC circuits automatic control ignition coupling circuits

oxidation

reduction (chemistry)

RT

electrical resistance

∞ automation

computer aided design

C	computer aided manufacturing		soil mechanics	apogee boost motors
	computer aided mapping		structural properties (geology)	H-1 engine
	computer vision		oradiara proportion (goology)	LR-87-AJ-5 engine
	end effectors	rock sa	lt .	· ·
			halites	M-1 engine
	nverse kinematics	OOL	nantes	M-55 engine
	nan machine systems	rocket	poosters	MA-2 engine
	nanipulators			MA-3 engine
	nultisensor fusion	USE	booster rocket engines	MA-5 engine
	position sensing	un alrat	a a tamulta	Nike booster rocket engines
	obot arms		catapults	P-1 engine
	obot control	GS	launchers	rocket engine 9KS-11000
r	obot dynamics		. catapults	Space Shuttle Boosters
r	obot sensors		rocket catapults	
r	obots		. rocket launchers	Advanced Solid Rocket Motor
ta	ask planning (robotics)		rocket catapults	(STS)
te	eleoperators	RT	gun launchers	X-405 engine
tı	rajectory planning		launch vehicles	ducted rocket engines
	inmanned ground vehicles		launching sites	electric rocket engines
	roice control		missiles	electrostatic engines
•			∞ rockets	ion engines
robots				cesium engines
	artificial intelligence	rocket (	chambers	Hall thrusters
	automata theory		thrust chambers	mercury ion engines
	pionics	002		RIT engines
		rocket	engine 9KS-11000	electrothermal engines
	computer vision	GS	engines	arc jet engines
	end effectors	ao	. rocket engines	pulsed jet engines
	sycholinguistics			resistojet engines
	obot arms		booster rocket engines	, ,
r	obot control		rocket engine 9KS-11000	plasma engines
r	obot sensors			magnetoplasmadynamic
r	obotics		engine cases	thrusters
S	servomechanisms	UF	missile engine cases	pulsed inductive thrusters
5	Space Station Mobile Servicing		rocket motor cases	pulsed plasma thrusters
	System	GS	cases (containers)	two stage plasma engines
t	actile sensors (robotics)		. rocket engine cases	VASIMR (propulsion system)
	ask planning (robotics)	RT	bonded joints	HEUS rocket engines
	elerobotics		missile bodies	hot water rocket engines
			orthotropic cylinders	hybrid propellant rocket engines
	orque sensors (robotics)		perforated shells	lithergol rocket engines
V	roice control		shells (structural forms)	liquid propellant rocket engines
			thrust chambers	AJ-10 engine
	ss (mathematics)		tillust chambers	F-1 rocket engine
	nsensitivity of systems to uncontrolled	un alrat	anaina aantual	
	ons and independent of changes in		engine control	H-1 engine
environme	ental parameters as demonstrated	GS	engine control	hydrazine engines
mathemat	ically.		rocket engine control	hydrogen oxygen engines
RT a	algorithms	RT	attitude control	J-2 engine
C	control stability		automatic control	M-1 engine
C	control theory		∞ control	RL-10-A-1 engine
	eedback control		directional control	RL-10-A-3 engine
	near systems		flight control	liquid air cycle engines
	nathematical models		fuel control	LR-62-RM-2 engine
	nationation models		HEUS rocket engines	LR-87-AJ-5 engine
Roche lin	nit		missile control	LR-91-AJ-5 engine
			remote control	MA-2 engine
	ange (extremes)		servocontrol	MA-3 engine
	Roche limit		spacecraft control	MA-5 engine
	celestial mechanics			
	limensional stability		thrust control	oxygen-hydrocarbon rocket
	gravitation			engines
n	natural satellites		engine design	RL-10 engines
C	orbits	GS		RL-10-A-1 engine
r	otating bodies		. rocket engine design	RL-10-A-3 engine
t	wo body problem	RT	aerospike engines	pulse detonation engines
			cold flow tests	Space Shuttle Main Engine
rock bolts	S		∞ design	X-405 engine
GS fa	asteners		engine tests	XLR-99 engine
	bolts		prefiring tests	YLR-91-AJ-1 engine
	. rock bolts		Rover project	M-100 engine
•	. Took boile			microrocket engines
rock intru	isions	rocket	engine noise	Orbit Maneuvering Engine (Space
	Vertical tabular bodies of rock that fill	GS	elastic waves	Shuttle)
	host rocks. Used for dikes (geology).	ao	. sound waves	nozzleless rocket engines
				nuclear engine for rocket vehicles
	dikes (geology)		noise (sound)	
	ock intrusions		engine noise	nuclear ramjet engines
	batholiths	БТ	rocket engine noise	nuclear rocket engines
	contacts (geology)	RT	mufflers	nuclear lightbulb engines
	gneous rocks	_		restartable rocket engines
	nliers (landforms)		engines	retrorocket engines
	egolith		Reaction engines that contain within	BE-3 engine
r	ocks		lves, or carry along with themselves, all	reusable rocket engines
	reins (petrology)		stances necessary for their operation or	solid propellant rocket engines
•	577		consumption or combustion of their fuel,	Algol engine
rock mec	hanics		uiring of any outside substance and	apogee boost motors
	The theoretical and applied science of		apable of operation in outer space. Used	ASROC engine
	cal behavior of rocks, representing a		planetary propulsion.	Hercules engine
	mechanics concerned with the re-		interplanetary propulsion	M-46 engine
	rock to the force fields of its physical	GS		M-46 engine M-55 engine
		as	engines	
environme			. rocket engines	M-56 engine
	racture mechanics		booster rocket engines	M-57 engine
	geology		AJ-10 engine	Nike booster rocket engines
r	ocks		Algol engine	P-1 engine

	CL 2 real/of angine		mata avalaginal flight		liquid ovidizoro
	SL-3 rocket engine Space Shuttle Boosters		meteorological flight		liquid oxidizers
	Advanced Solid Rocket Motor		space flight		liquid oxygen nitrogen tetroxide
			suborbital flight		nitronium perchlorate
	(STS)		supersonic flight		
	SYNCOM apogee engines		trajectories		TATB
	TX-77 engine		transonic flight		tetrafluorohydrazine
	TX-354 engine		vertical flight	rookst	nlanaa
	X-248 engine	wa alcat le		rocket	rocket vehicles
	X-254 engine		aunchers	do	
	X-258 engines	DEF	Devices for launching rockets.		. rocket planes
	X-258-B1 engine	GS	launchers		X-1 aircraft
	X-259 engine		. rocket launchers		X-2 aircraft
	XM-33 engine	DT	rocket catapults	БТ	X-15 aircraft
	sustainer rocket engines	RT	ground support equipment	RT	aerospace planes
	turborocket engines		gun launchers	0	∞ aircraft
	ullage rocket engines		launch vehicles		boostglide vehicles
	upper stage rocket engines		launching		research aircraft
	Vernier engines		launching sites		
	control rockets		missile launchers		propellant tanks
	SYNCOM apogee engines	∞	rockets	USE	propellant tanks
	aerospike engines		rockoons		
	rocket-based combined-cycle		sea launching		propellants
	engines				Agents used for consumption or com-
RT	aircraft engines		aunching		in rockets and from which the rockets
	axial modes	UF	blastoff		their thrust, such as fuels, oxidizers,
	burning time	GS	launching		s, catalysts or any compounds or mix-
	dump combustors		. rocket launching	tures of	these. Used for multipropellants.
	ejectors		liftoff (launching)	UF	multipropellants
	exhaust nozzles		lunar launch	GS	propellants
	expendable stages (spacecraft)		orbital launching		rocket propellants
	heavy lift launch vehicles	RT	Delta 4 Heavy launch vehicle		gaseous rocket propellants
	hybrid propulsion		exhaust clouds		liquid rocket propellants
	ignition systems		launch vehicles		cryogenic rocket propellants
	internal combustion engines		launch windows		gelled rocket propellants
	jet engines		launchers		hypergolic rocket propellants
	, ,		spacecraft launching		monopropellants
	jet propulsion		spacecraft lauricining		RP-1 rocket propellants
	laser propulsion	rooket li	ningo		
	launch vehicles	rocket li			slurry propellants
	Lunar Module Ascent Stage		In solid rockets, the layers of inhibiters		slush hydrogen
	magnetoplasmadynamics		to the inner surface of the chamber		aerozine
	matter-antimatter propulsion	holding t			nitramine propellants
	missile configurations	GS	linings		solid rocket propellants
	missiles		. rocket linings		double base rocket propellants
	multistage rocket vehicles	RT	bonded joints		HMX
	negative matter propulsion		engine parts		HTPB propellants
	post boost propulsion system		refractories		metal propellants
c	∘ propellant actuated devices				. TAGN
	propellant explosions	rocket m	otor cases		TATB
	refractories	USE	rocket engine cases	RT	ascent propulsion systems
	reusable launch vehicles		-		auxiliary propulsion
	RIFT (reactor in flight test)	rocket n	ose cones		fuels
	orockets	GS	cones		hydrazines
			. nose cones		hydrocarbon fuels
	single stage rocket vehicles		rocket nose cones		missiles
	solid rocket propellants		forebodies		propellant binders
	spacecraft components		. noses (forebodies)		
	spacecraft propulsion		nose cones		propellant consumption propellant storage
	spacecraft structures		rocket nose cones		propulsion
	thrust	RT	ablative nose cones		
	thrust vector control	пі	abiative fiede colles		solid propellants
С	∘ thrustors	rocket n	077106		specific impulse
	thrust-weight ratio	DEF	The exhaust nozzles of rockets.		storable propellants
			rocket nozzles		thrust
	exhaust	GS			torpedo engines
GS	plumes	57	. dual thrust nozzles	-	H. d. al. d.
	. rocket exhaust	RT	aerospike engines		propelled sleds
RT	aerospike engines		annular nozzles	GS	surface vehicles
	base heating		carbon-phenolic composites		. sleds
	combustion products		conical nozzles		rocket propelled sleds
	exhaust clouds		convergent-divergent nozzles	RT	Javelin rocket vehicle
	exhaust gases		divergent nozzles	c	∞ test equipment
	exhaust systems		hypersonic nozzles		
	jet exhaust		magnetic nozzles	rocket s	sondes
	•		nozzle inserts	USE	sounding rockets
rocket	firing		nozzleless rocket engines		
GS	firing (igniting)	∞	nozzles	rocket	sounding
-	. rocket firing		plug nozzles	GS	sounding
	retrofiring		skirts		. rocket sounding
RT	burning time		spike nozzles	RT	
	detonation		supersonic nozzles		atmospheric sounding
	liftoff (launching)		•		barium ion clouds
	static firing	rocket o	xidizers		in situ measurement
	test firing		propellant oxidizers		ionospheric sounding
	toot ming		oxidizers		Judi-Dart rocket
rocket	flight	as	. rocket oxidizers		microwave sounding
RT	climbing flight		FLOX		satellite sounding
	coasting flight	DT	TAGN		sounding rockets
c	∘ flight	RT	cryogenic fluids		Vertikal rockets
	flight paths		Domino propellants	_	
	horizontal flight		high energy oxidizers		test facilities
	hypersonic flight		hydrogen peroxide	GS	test facilities

. rocket test facilities engine tests test firing test ranges test stands rocket thrust The thrust of a rocket engine usually expressed in pounds. thrust GS . rocket thrust . retrothrust high thrust RT 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 Vehicles propelled by rocket engines, used to place satellites in orbit, place missiles on target or carry passengers over rails as on rocket sleds. 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

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
. payload assist module . rocket planes . X-1 aircraft . X-2 aircraft X-15 aircraft Saturn stages Saturn S-1 stage Saturn S-1B stage Saturn S-1C stage Saturn S-2 stage Saturn S-4 stage Saturn S-4B stage 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 sounding rocketsAerobee rocket vehicle . . Antares rocket vehicle Apache rocket vehicle Arcas rocket vehicles Aries sounding rocket Astrobee rocket vehicles Astrobee 1500 rocket vehicle 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 Cajun rocket vehicle . . Dornier paraglider rocket vehicle EXOS sounding rocket . . Jaguar rocket vehicle Judi-Dart rocket . . Kappa rocket vehicles Kappa 8 rocket vehicle Kappa 9 rocket vehicle Lambda rocket vehicles Loki rocket vehicle Petrel sounding rocket
Phoenix sounding rocket

Skua rocket vehicles

. . Skylark rocket vehicle

. . Venus fly trap rocket vehicle Veronique rocket vehicles Vertikal rockets WASP sounding rocket . Standard Launch Vehicles Atlas SLV-3 launch vehicle . . Standard Launch Vehicle 5 . surface to surface rockets . . Honest John rocket vehicle Little John rocket vehicle . Thorad launch vehicles Thor Able rocket vehicle . . Thor Agena launch vehicle Thor Delta launch vehicle Titan Centaur launch vehicle acoustic sounding ∞ ballistic vehicles 
 ≈ flight vehicles
 HEUS rocket engines
 launch vehicles missile configurations multiengine vehicles ∞ rockets Space Processing Applications Rocket stage separation test vehicles Trailblazer 1 reentry vehicle Trailblazer 2 reentry vehicle ∞ vehicles ∞ winged vehicles X-17 reentry vehicle rocket-based combined-cycle engines (added August 1999) DEF Launch vehicle engines that integrate a high specific impulse, low thrust-to-weight, airbreathing engine with a low-impulse, high thrust-to-weight rocket. The engines are often defined by four modes of operation in a single-stage-to-orbit configuration. In the first mode, the engine functions as a rocket-driven ejector. When the rocket engine is switched off, subsonic combustion (mode 2) is present in the ramjet mode. As the vehicle continues to accelerate, supersonic combustion (mode 3) occurs in the ramjet mode. Finally, as the edge of the atmosphere is approached and the engine inlet is closed off, the rocket is reignited and the final accent to orbit is undertaken in an all-rocket mode (mode 4). UF RBCC engines GS engines . rocket engines ... rocket-based combined-cycle engines air breathing boosters air breathing engines hybrid propulsion integral rocket ramjets ramjet engines single stage to orbit vehicles spacecraft propulsion supersonic combustion ramjet engines rocket-borne instruments controllers flight test instruments ∞ instruments measuring instruments meteorological instruments position indicators rocket-borne photography GS imagery . photography rocket-borne photography aerial photography astronomical photography black and white photography photomapping satellite-borne photography spaceborne photography ∞ rockets (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN RT air slew missiles

	ammunition		arasahadding (gaalagy)	ton, me	woment of an aircraft or aimilar hady
			crossbedding (geology)		every langitudinal evice through the hady
	escape rockets		dirt		longitudinal axis through the body
	heavy lift launch vehicles		dolomite (mineral)		oll for any degree of such rotation. The
	incendiary ammunition		Earth resources		of this movement, i.e., the angle of roll.
	launch vehicles		effusives	GS	attitude (inclination)
	missiles		enstatite		. roll
	nuclear ramjet engines		folds (geology)	RT	damping
	nuclear rocket engines		formations		lateral control
	nuclear weapons		geology		lateral oscillation
	Patriot missile		gypsum		lateral stability
	Petrel sounding rocket		inliers (landforms)		pitch (inclination)
	pyrotechnics		karst		rollers
	reentry		landslides		o rolling
	reentry vehicles		laterites		rolling moments
	•				rotation
	rocket catapults		lava		
	rocket engines		ledges		sideslip
	rocket launchers		lithology		turning flight
	rocket vehicles		magma		wing rock
	rockoons		metamorphism (geology)		yaw
	space flight		minerals		
	surface to air missiles		nunataks	roll con	tral
	surface to surface missiles		olivine		
	surface to surface rockets		outliers (landforms)	USE	lateral control
	torpedoes		paleomagnetism		
	warheads		petrography	roll for	mina
	weapon systems		petrology	GS	forming techniques
	weapons delivery		pyroxenes	ao	. roll forming
	weapone delivery		quartz	DT	cold working
			reefs	RT	
rockoor			rock intrusions		metal working
DEF	High altitude sounding systems that				
consist of	of small solid propellant research rock-		rock mechanics	roller b	earings
ets carri	ed aloft by large plastic balloons.		serpentine		3
	high altitude balloons		soils	GS	bearings
	meteorological balloons		stratigraphy		. antifriction bearings
	ROBIN balloons		tunneling (excavation)		roller bearings
	rocket launchers		veins (petrology)		needle bearings
			" 537	RT	ball bearings
00	rockets	Rockwe	ell hardness		thrust bearings
	skyhook balloons	GS	mechanical properties		
			. hardness		
rocks			Rockwell hardness	rollers	
DEF	Naturally formed aggregates of min-	RT	microhardness	RT	conveyors
	ter occurring in large masses or frag-		This charantee		cylindrical bodies
	Jsed for stones (rocks).	Rocky I	Mountains (North America)		dispensers
UF	stones (rocks)	GS	landforms		distributors
		ao	. mountains		idlers
GS	rocks				platens
	. andesite		Rocky Mountains (North		pulleys
	. ataxite	DT	America)		roll
	. bedrock	RT	Canada		
	Baltic Shield (Europe)		United States		tires
	batholiths				vehicle wheels
	. breccia	rodents			wheels
					***************************************
	. gneiss	GS	animals		
	. gneiss . ianeous rocks	GS	. vertebrates	uallia.e	
	. igneous rocks	GS		∞ rolling	
	. igneous rocks anorthosite	GS	. vertebrates mammals rodents	∞ <b>rolling</b> SN	(USE OF A MORE SPECIFIC TERM IS
	. igneous rocks anorthosite basalt	GS	. vertebrates mammals		(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS
	. igneous rocks anorthosite basalt diorite	GS	. vertebrates mammals rodents	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)
	. igneous rocks . anorthosite . basalt . diorite . dunite	GS	. vertebrates mammals rodents guinea pigs hamsters		(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite	GS	. vertebrates mammals rodents guinea pigs hamsters mice	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening
	. igneous rocks . anorthosite . basalt . diorite . durite . eclogite . felsite	GS	. vertebrates . mammals . rodents guinea pigs hamsters mice jerboas	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro	GS	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite	GS	. vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice pocket mice	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro	GS	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice pocket mice rabbits	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite	GS	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice pocket mice rabbits rats	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian	GS	vertebrates . mammals . rodents . guinea pigs . hamsters . mice . jerboas . knockout mice . pocket mice . rabbits . rats . squirrels	SN <sup>*</sup> RT	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridotite	GS	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice pocket mice rabbits rats	SN RT rolling	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridotite . pumice		vertebrates . mammals . rodents . guinea pigs . hamsters . mice . jerboas . knockout mice . pocket mice . rabbits . rats . squirrels	SN <sup>*</sup> RT	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces)
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridotite . pumice . rhyolite	rods	vertebrates . mammals . rodents . guinea pigs . hamsters . mice . jerboas . knockout mice . pocket mice . rabbits . rats . squirrels . ground squirrels	SN RT rolling	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll   contact loads loads (forces) . contact loads
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridotite . pumice . rhyolite . syenite		vertebrates . mammals . rodents . guinea pigs . hamsters . mice . jerboas . knockout mice . pocket mice . rabbits . rats . squirrels . ground squirrels . rods	SN RT rolling	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces) . contact loads . rolling contact loads
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabro . granite . obsidian . moldavite . peridotite . pumice . rhyolite . syenite . trachyte	<b>rods</b> GS	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice pocket mice rabbits rats squirrels ground squirrels  rods . control rods	SN RT rolling	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces) . contact loads rolling contact loads . dynamic loads
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridotite . pumice . rhyolite . syenite . trachyte . lunar rocks	rods	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice rabbits . rats squirrels ground squirrels  rods . control rods bars	SN RT rolling GS	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces) . contact loads . rolling contact loads
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridotite . pumice . rhyolite . syenite . trachyte lunar rocks . kreep	<b>rods</b> GS	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice pocket mice rabbits rats squirrels ground squirrels  rods . control rods	SN RT rolling	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces) . contact loads rolling contact loads rolling contact loads antifriction bearings
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridotite . pumice . rhyolite . syenite . trachyte . lunar rocks . kreep . metamorphic rocks	<b>rods</b> GS	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice rabbits . rats squirrels ground squirrels  rods . control rods bars	SN RT rolling GS	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces) . contact loads . rolling contact loads
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabtro . granite . obsidian . moldavite . peridotite . pumice . rhyolite . syenite . trachyte . lunar rocks . kreep metamorphic rocks . quartzite	<b>rods</b> GS	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice pocket mice ratbits . rats squirrels ground squirrels  rods . control rods bars billets	SN RT rolling GS	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces) . contact loads rolling contact loads rolling contact loads antifriction bearings
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridotite . pumice . rhyolite . syenite . trachyte lunar rocks . kreep metamorphic rocks . quartzite . regolith	<b>rods</b> GS	. vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice pocket mice rabbits . rats . squirrels ground squirrels  rods . control rods bars billets directors (antenna elements)	SN RT rolling GS	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces) . contact loads . rolling contact loads . tolling contact loads . tolling contact loads antifriction bearings stresses
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridotite . pumice . rhyolite . syenite . trachyte . lunar rocks . kreep metamorphic rocks . quartzite regolith . schist	<b>rods</b> GS RT	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice pocket mice rabbits . rats . squirrels ground squirrels  rods . control rods bars billets directors (antenna elements) structural members wire	SN RT rolling GS	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces) . contact loads . rolling contact loads . tolling contact loads adjumnic loads . rolling contact loads antifriction bearings stresses structural design criteria
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridotite . pumice . rhyolite . syenite . trachyte lunar rocks . kreep metamorphic rocks . quartzite . regolith . schist . sedimentary rocks	<b>rods</b> GS RT	. vertebrates . mammals rodents guinea pigs hamsters mice jerboas knockout mice pocket mice rabbits rats squirrels ground squirrels  rods . control rods bars billets directors (antenna elements) structural members	SN RT rolling GS RT rolling	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces) . contact loads . rolling contact loads . rolling contact loads antifiction bearings stresses structural design criteria
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridoitie . pumice . rhyolite . syenite . trachyte . lunar rocks . kreep . metamorphic rocks . quartzite . regolith . sedimentary rocks . carbonaceous rocks	rods GS RT Roe flux	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice pocket mice rabbits . rats . squirrels ground squirrels  rods . control rods bars billets directors (antenna elements) structural members wire	RT  rolling GS  RT  rolling DEF	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces) . contact loads . rolling contact loads . rolling contact loads antifriction bearings stresses structural design criteria  moments  Moments that tend to rotate an aircraft,
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridotite . rhyolite . syenite . trachyte . lunar rocks . kreep metamorphic rocks . quartzite regolith . schist . sedimentary rocks . carbonaceous rocks coal	rods GS RT Roe flux USE	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice rabbits . rats squirrels ground squirrels  rods . control rods bars billets directors (antenna elements) structural members wire difference splitting scheme flux difference splitting	rolling GS  RT  rolling DEF rocket of	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces) . contact loads . rolling contact loads . ynamic loads . rolling contact loads antifriction bearings stresses structural design criteria  moments  Moments that tend to rotate an aircraft, or spacecraft about a longitudinal axis.
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridoitie . pumice . rhyolite . syenite . trachyte . lunar rocks . kreep . metamorphic rocks . quartzite . regolith . sedimentary rocks . carbonaceous rocks	rods GS RT Roe flux USE Roentge	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice pocket mice . rabbits . rats . squirrels . ground squirrels  rods . control rods bars billets directors (antenna elements) structural members wire difference splitting scheme flux difference splitting en satellite	rolling GS  RT  rolling DEF rocket of	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces) . contact loads . rolling contact loads . rolling contact loads antifriction bearings stresses structural design criteria  moments  Moments that tend to rotate an aircraft,
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridotite . rhyolite . syenite . trachyte . lunar rocks . kreep metamorphic rocks . quartzite regolith . schist . sedimentary rocks . carbonaceous rocks coal	rods GS RT Roe flux USE Roentge	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice rabbits . rats squirrels ground squirrels  rods . control rods bars billets directors (antenna elements) structural members wire difference splitting scheme flux difference splitting	rolling GS  RT  rolling DEF rocket of These is	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces) . contact loads . rolling contact loads . ynamic loads . rolling contact loads antifriction bearings stresses structural design criteria  moments  Moments that tend to rotate an aircraft, or spacecraft about a longitudinal axis.
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridotite . pumice . rhyolite . syenite . trachyte lunar rocks . kreep metamorphic rocks . quartzite regolith schist . sedimentary rocks . carbonaceous rocks . coal . anthracite . lignite	rods GS RT Roe flux USE Roentge USE	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice rabbits . rats squirrels ground squirrels  rods . control rods bars billets directors (antenna elements) structural members wire a difference splitting en satellite ROSAT mission	rolling GS  RT  rolling DEF rocket of These of they ter	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces) . contact loads . rolling contact loads . trolling contact loads autifriction bearings stresses structural design criteria  moments  Moments that tend to rotate an aircraft, or spacecraft about a longitudinal axis.
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridotite . pumice . rhyolite . syenite . trachyte . lunar rocks . kreep metamorphic rocks . quartzite regolith schist sedimentary rocks . carbonaceous rocks . carbonaceous rocks . coal anthracite	rods GS RT Roe flux USE Roentge USE Rogallo	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice pocket mice rabbits . rats squirrels ground squirrels  rods . control rods bars billets directors (antenna elements) structural members wire difference splitting scheme flux difference splitting en satellite ROSAT mission wings	rolling GS  RT  rolling DEF rocket to These they ter body.	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces) . contact loads . rolling contact loads . rolling contact loads antifriction bearings stresses structural design criteria  moments  Moments that tend to rotate an aircraft, or spacecraft about a longitudinal axis. moments are considered positive when ind to depress the starboard side of the
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridotite . rhyolite . syenite . trachyte . lunar rocks . kreep metamorphic rocks . quartzite regolith schist sedimentary rocks . carbonaceous rocks . coal . anthracite . lignite . slignite . solvent refined coal . limestone	rods GS RT Roe flux USE Roentge USE Rogallo	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice rabbits . rats squirrels ground squirrels  rods . control rods bars billets directors (antenna elements) structural members wire a difference splitting en satellite ROSAT mission	rolling GS  RT  rolling DEF rocket of These of they ter	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces) . contact loads . rolling contact loads . rolling contact loads antifriction bearings stresses structural design criteria  moments  Moments that tend to rotate an aircraft, or spacecraft about a longitudinal axis. moments are considered positive when ind to depress the starboard side of the moments
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridotite . pumice . rhyolite . syenite . trachyte . lunar rocks . kreep metamorphic rocks . quartzite regolith schist sedimentary rocks . carbonaceous rocks . carbonaceous rocks . coal anthracite ignite solvent refined coal . limestone . sandstones	rods GS RT Roe flux USE Roentge USE Rogallo	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice pocket mice rabbits . rats squirrels ground squirrels  rods . control rods bars billets directors (antenna elements) structural members wire difference splitting scheme flux difference splitting en satellite ROSAT mission wings	rolling GS  RT  rolling DEF rocket to These they ter body.	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces) . contact loads . rolling contact loads . rolling contact loads autifriction bearings stresses structural design criteria  moments  Moments that tend to rotate an aircraft, or spacecraft about a longitudinal axis. moments are considered positive when ind to depress the starboard side of the moments . stability derivatives
	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridotite . pumice . rhyolite . syenite . trachyte ! lunar rocks . kreep metamorphic rocks . quartzite regolith schist sedimentary rocks . carbonaceous rocks . coal . anthracite . lignite . solvent refined coal . limestone sandstones . shales	rods GS RT Roe flux USE Roentge USE Rogallo USE	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice pocket mice rabbits rats squirrels ground squirrels  rods . control rods bars billets directors (antenna elements) structural members wire a difference splitting scheme flux difference splitting en satellite ROSAT mission wings flexible wings folding structures	rolling GS  RT  rolling DEF rocket of These of they ter body. GS	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces) . contact loads . rolling contact loads . rolling contact loads autifriction bearings stresses structural design criteria  moments  Moments that tend to rotate an aircraft, or spacecraft about a longitudinal axis. moments are considered positive when and to depress the starboard side of the moments . stability derivatives . rolling moments
DT	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridotite . pumice . rhyolite . syenite . trachyte lunar rocks . kreep metamorphic rocks . quartzite regolith schist sedimentary rocks . carbonaceous rocks . caal . anthracite . lignite . solvent refined coal . limestone . sandstones . shales . shatter cones	rods GS RT Roe flux USE Roentge USE Rogallo	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice pocket mice rabbits rats squirrels ground squirrels  rods . control rods bars billets directors (antenna elements) structural members wire a difference splitting scheme flux difference splitting en satellite ROSAT mission wings flexible wings folding structures	rolling GS  RT  rolling DEF rocket to These they ter body.	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces) contact loads rolling contact loads rolling contact loads antifriction bearings stresses structural design criteria  moments  Moments that tend to rotate an aircraft, or spacecraft about a longitudinal axis. moments are considered positive when do to depress the starboard side of the moments . stability derivatives rolling moments aerodynamic coefficients
RT	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridotite . pumice . rhyolite . syenite . trachyte . lunar rocks . kreep . metamorphic rocks . quartzite regolith . schist . sedimentary rocks . carbonaceous rocks coal anthracite . lignite solvent refined coal . limestone . shales . shales . shales . shatter cones aggregates	rods GS RT Roe flux USE Roentge USE Rogallo USE	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice pocket mice rabbits rats squirrels ground squirrels  rods . control rods bars billets directors (antenna elements) structural members wire a difference splitting scheme flux difference splitting en satellite ROSAT mission wings flexible wings folding structures	rolling GS  RT  rolling DEF rocket of These of they ter body. GS	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces) . contact loads . rolling contact loads . rolling contact loads antifriction bearings stresses structural design criteria  moments  Moments that tend to rotate an aircraft, or spacecraft about a longitudinal axis. moments are considered positive when ad to depress the starboard side of the moments . rolling moments aerodynamic coefficients lateral stability
RT	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridotite . rhyolite . syenite . trachyte . lunar rocks . kreep metamorphic rocks . quartzite regolith . schist . sedimentary rocks . carbonaceous rocks coal anthracite . lignite solvent refined coal . limestone . sandstones . shatter cones aggregates bauxite	rods GS RT  Roe flux USE Roentge USE Rogallo USE rogue p (adde	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice rabbits rats squirrels ground squirrels  rods . control rods bars billets directors (antenna elements) structural members wire a difference splitting scheme flux difference splitting en satellite ROSAT mission  wings flexible wings folding structures  lanets and April 2001)	rolling GS  RT  rolling DEF rocket of These of they ter body. GS	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces) . contact loads . rolling contact loads . rolling contact loads antifriction bearings stresses structural design criteria  moments  Moments that tend to rotate an aircraft, or spacecraft about a longitudinal axis. moments are considered positive when ind to depress the starboard side of the moments . stability derivatives . rolling moments aerodynamic coefficients lateral stability moments of inertia
RT	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridotite . pumice . rhyolite . syenite . trachyte . lunar rocks . kreep metamorphic rocks . quartzite regolith . schist . sedimentary rocks . carbonaceous rocks . coal anthracite . lignite . solvent refined coal . limestone . sandstones . shales . shales . shales . shatter cones aggregates bauxite	rods GS RT  Roe flux USE Roentge USE Rogallo USE rogue p (adde	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice pocket mice rabbits . rats squirrels ground squirrels  rods . control rods bars billets directors (antenna elements) structural members wire difference splitting scheme flux difference splitting en satellite ROSAT mission  wings flexible wings folding structures	rolling GS  RT  rolling DEF rocket of These of they ter body. GS	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces) . contact loads . rolling contact loads . rolling contact loads antifriction bearings stresses structural design criteria  moments  Moments that tend to rotate an aircraft, or spacecraft about a longitudinal axis. moments are considered positive when and to depress the starboard side of the moments . stability derivatives . rolling moments lateral stability moments of inertia pitching moments
RT	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridotite . pumice . rhyolite . syenite . trachyte lunar rocks . kreep metamorphic rocks . quartzite regolith schist sedimentary rocks . carbonaceous rocks . carbonaceous rocks . coal . anthracite . lignite . solvent refined coal . limestone . sandstones . shales . shatter cones aggregates bauxite boreholes clays	rods GS RT  Roe flux USE Roentge USE Rogallo USE rogue p (adde	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice rabbits rats squirrels ground squirrels  rods . control rods bars billets directors (antenna elements) structural members wire a difference splitting scheme flux difference splitting en satellite ROSAT mission  wings flexible wings folding structures  lanets and April 2001)	rolling GS  RT  rolling DEF rocket of These of they ter body. GS	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces) . contact loads . rolling contact loads . rolling contact loads antifriction bearings stresses structural design criteria  moments  Moments that tend to rotate an aircraft, or spacecraft about a longitudinal axis. moments are considered positive when ind to depress the starboard side of the moments . stability derivatives . rolling moments aerodynamic coefficients lateral stability moments of inertia
RT	. igneous rocks . anorthosite . basalt . diorite . dunite . eclogite . felsite . gabbro . granite . obsidian . moldavite . peridotite . pumice . rhyolite . syenite . trachyte . lunar rocks . kreep metamorphic rocks . quartzite regolith . schist . sedimentary rocks . carbonaceous rocks . coal anthracite . lignite . solvent refined coal . limestone . sandstones . shales . shales . shales . shatter cones aggregates bauxite	rods GS RT  Roe flux USE Roentge USE Rogallo USE  rogue p (adde USE	vertebrates . mammals . rodents guinea pigs hamsters mice jerboas knockout mice rabbits rats squirrels ground squirrels  rods . control rods bars billets directors (antenna elements) structural members wire a difference splitting scheme flux difference splitting en satellite ROSAT mission  wings flexible wings folding structures  lanets and April 2001)	rolling GS  RT  rolling DEF rocket of These of they ter body. GS	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) ausforming flattening forging leveling metal working roll  contact loads loads (forces) . contact loads . rolling contact loads . rolling contact loads antifriction bearings stresses structural design criteria  moments  Moments that tend to rotate an aircraft, or spacecraft about a longitudinal axis. moments are considered positive when and to depress the starboard side of the moments . stability derivatives . rolling moments lateral stability moments of inertia pitching moments

yawing moments GS artificial satellites piston engines **ROSAT** mission rollup solar arrays rotary gyroscopes observatories USE solar arrays . astronomical observatories gyroscopes . . ROSAT mission . rotary gyroscopes ROM devices astronomical satellites . fluid rotor gyroscopes gyroscope fluids USE read-only memory devices international cooperation spaceborne astronomy gyroscopic stability Romania spaceborne telescopes rotating bodies Rumania UF x ray astronomy rotary stability GS nations x ray sources whirl instability Romania x ray telescopes dynamic characteristics . dynamic stability GS RT Black Sea Central Europe Rosetta mission . motion stability Europe (added October 1995) ... rotary stability ÙF CNSR . . . gyroscopic stability Ronchi test GS space missions DEF An improvement on the Foucault knifestability . asteroid missions edge test for curved mirrors, in which the knife . dynamic stability . Rosetta mission edge is replaced with a transmission grating with . . motion stability RT comet nuclei 15 to 80 lines per centimeter, and the pinhole ... rotary stability Comet Rendezvous Asteroid Flyby . gyroscopic stability source is replaced with a slit or a section of the Mission airfoil oscillations same grating. ∞ missions GS<sup>°</sup> interferometry directional stability Near Earth Asteroid Rendezvous Ronchi test flow stability Mission electromagnetic radiation lateral stability rendezvous trajectories etalons longitudinal stability sampling gratings (spectra) rotating bodies interferometers rotation rosette shapes measuring instruments rotor dynamics GS shapes optical measurement rosette shapes rotary wing aircraft antenna radiation patterns A heavier-than-air aircraft that deroofs crystallites buildings pends prinicipally for its support in flight on the RT spherulites lift generated by one or more rotors. sheaths strain gages UF rotorcraft room temperature GS V/STOL aircraft Roshko prediction DEF A temperature in the range of 20 to 30 . rotary wing aircraft predictions GS C (68 to 85 F). . . autogyros Roshko prediction temperature . . . Avian 2/180 autogiro GS bluff bodies room temperature . . helicopters laminar flow ambient temperature ... Alouette helicopters Oseen approximation operating temperature . . . SA-330 helicopter three dimensional flow . SE-3160 helicopter rooms . . . Bell 214A helicopter rosin GS rooms ... compound helicopters gums (substances) GS . . . . S-67 helicopter . clean rooms rosin H-17 helicopter darkrooms organic materials ... heavy lift helicopters compartments enclosures . CH-62 helicopter Ross ice shelf light helicopters ∞ lounges GS regions OH-4 helicopter . polar regions root-mean-square errors . . . OH-5 helicopter . . Antarctic regions DEF In statistics, the square root of the OH-6 helicopter ... Ross ice shelf arithmetic mean of the squares of the deviations . . . OH-58 helicopter of the various items from the arithmetic mean of . remote regions . . . military helicopters . . Antarctic regions the whole. . . . . AH-1G helicopter . . Ross ice shelf AH-1S helicopter GS errors Southern Hemisphere . root-mean-square errors . . . . AH-1W helicopter . Antarctic regions RT error analysis AH-63 helicopter . Ross ice shelf statistical analysis . . . AH-64 helicopter McMurdo sound BO-105 helicopter ∞ roots CH-3 helicopter (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS Rossby regimes CH-21 helicopter barotropic flow CH-34 helicopter LISTED BELOW)
plant roots planetary waves CH-46 helicopter CH-47 helicopter radicals Rossby waves CH-54 helicopter roots of equations USE planetary waves CH-62 helicopter wing roots H-19 helicopter Rossi X Ray Timing Explorer H-43 helicopter roots of equations (added March 1999) H-53 helicopter zero crossings X Ray Timing Explorer H-54 helicopter RT eigenvalues . . . . H-56 helicopter ∞ equations rotary drives H-60 Helicopter existence theorems USE mechanical drives . . . . HC-3 helicopter matrices (mathematics) Newton methods HH-43 helicopter . . . . HH-65 helicopter rotary engines nonlinear equations A positive displacement engine con-OH-4 helicopter polynomials . . . . OH-5 helicopter sisting of a rotor and stator. The control volume ∞ roots which encloses the working fluid during the OH-6 helicopter . . . OH-13 helicopter thermodynamic cycle moves in a generally cir-Rorschach tests psychological tests cular motion rather than a linear motion as in a OH-23 helicopter Rorschach tests piston engine. OH-58 helicopter engines P-531 helicopter mental health GS . internal combustion engines . . . . QH-50 helicopter psychology . . rotary engines . . . Wankel engines S-67 helicopter ∞ tests SA-321 helicopter

aircraft engines

automobile engines

RT

SA-330 helicopter

. . . . SH-3 helicopter

**ROSAT** mission

UF

Roentgen satellite

	SH-4 helicopter		. rotating cylinders	RT	counter rotation
	Sikorsky Whirlwind helicopter		rotating disks	∞	fluids
	UH-1 helicopter UH-2 helicopter		. rotating spheres		Goertler instability Karman-Bodewadt flow
	UH-34 helicopter		compressor rotors		liquid sloshing
	UH-60A helicopter		flywheels		planetary waves
	UH-61A helicopter		impellers		superrotation
	Westland Whirlwind helicopter		pump impellers		Taylor instability
	XV-9A aircraft		rotary wings		trapped vortices
	rigid rotor helicopters		circulation control rotors		turbulent flow
	CH-3 helicopter		lifting rotors		vortex sheets
	F-28 helicopter		bearingless rotors		vortices
	XH-51 helicopter		rigid rotors		wing tip vortices
	S-58 helicopter		tilting rotors		
	S-61 helicopter tandem rotor helicopters		tip driven rotors x wing rotors		generators
	CH-46 helicopter		tail rotors		dynamos
	CH-47 helicopter		helicopter tail rotors	GS	electric generators
	H-25 helicopter		tip vanes		. rotating generators amplidynes
	EH-101 helicopter		turbine wheels		dynamometers
	TH-55 helicopter		wave rotors		homopolar generators
	rotor systems research aircraft	RT	axes of rotation		turbogenerators
	tilt rotor aircraft	~	bodies		ASTEC solar turboelectric
	V-22 aircraft		planetary rotation		generator
БТ	XV-15 aircraft		Roche limit	RT	AC generators
HI∞	aircraft		rotary gyroscopes		commutators
	autorotation		rotary stability		DC generators
	commercial aircraft lifting rotors		rotation spinning unquided rocket trajectory		electrostatic generators
~	military aircraft		spiriting unguided rocket trajectory		generators
-	passenger aircraft	rotatino	cylinders	∞	rotating electrical machines
	rotor stator interactions		rotating bodies		turbines turbomachinery
	short takeoff aircraft		. rotating cylinders		turbornacimery
000	subsonic aircraft		symmetrical bodies	untation.	limitale
	transport aircraft		bodies of revolution	rotating UF	liquid rotation
	vertical takeoff aircraft		cylindrical bodies		liquids
	Weser aircraft		rotating cylinders	do	. rotating liquids
	Westland aircraft	RT	Couette flow		matter (physics)
rotary w	inge	~	cylinders		. rotating matter
UF	helicopter rotors		cylindrical shells		rotating fluids
01	hinged rotor blades		elastohydrodynamics Magnus effect		rotating liquids
	airfoils				Goertler instability
GS	allions			RT	
GS			shafts (machine elements)	RT	planetary waves
GS	wings . rotary wings		shafts (machine elements) viscometers	RT	planetary waves rotation
GS	. wings		shafts (machine elements)		planetary waves rotation trapped vortices
GS	. wings rotary wings	rotating	shafts (machine elements) viscometers viscometry		planetary waves rotation
GS	. wings rotary wings circulation control rotors lifting rotors bearingless rotors		shafts (machine elements) viscometers viscometry		planetary waves rotation trapped vortices vortices
GS	. wings . rotary wings circulation control rotors lifting rotors bearingless rotors rigid rotors		shafts (machine elements) viscometers viscometry disks	rotating	planetary waves rotation trapped vortices watter
GS	. wings . rotary wings circulation control rotors . lifting rotors bearingless rotors . rigid rotors . tilting rotors		shafts (machine elements) viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies	rotating	planetary waves rotation trapped vortices vortices  matter matter (physics)
GS	. wings . rotary wings . circulation control rotors . lifting rotors bearingless rotors . rigid rotors . tilting rotors . tip driven rotors	GS	shafts (machine elements) viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies . rotating disks	rotating	planetary waves rotation trapped vortices vortices  matter matter (physics) . rotating matter
	. wings . rotary wings circulation control rotors lifting rotors bearingless rotors rigid rotors tilting rotors tip driven rotors x wing rotors		shafts (machine elements) viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks	rotating	planetary waves rotation trapped vortices vortices  matter matter (physics) rotating matter . rotating fluids
	. wings . rotary wings circulation control rotors lifting rotors bearingless rotors rigid rotors tilting rotors til p driven rotors x wing rotors rotating bodies	GS	shafts (machine elements) viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks counter rotation	rotating	planetary waves rotation trapped vortices vortices  matter matter (physics) . rotating matter rotating fluids rotating liquids
	. wings . rotary wings circulation control rotors lifting rotors bearingless rotors rigid rotors tilting rotors tilting rotors tip driven rotors x wing rotors rotating bodies . rotors	GS	shafts (machine elements) viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks counter rotation Karman-Bodewadt flow	rotating GS	planetary waves rotation trapped vortices vortices matter matter (physics) rotating matter rotating fluids rotating liquids rotating plasmas
	. wings . rotary wings circulation control rotors lifting rotors bearingless rotors rigid rotors tilting rotors til p driven rotors x wing rotors rotating bodies	GS	shafts (machine elements) viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks counter rotation	rotating GS	planetary waves rotation trapped vortices vortices  matter matter (physics) . rotating matter rotating fluids rotating liquids
	. wings . rotary wings circulation control rotors lifting rotors rigid rotors rigid rotors tilting rotors tip driven rotors x wing rotors rotating bodies . rotors . rotary wings	GS T	shafts (machine elements) viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)	<b>rotating</b> GS RT	planetary waves rotation trapped vortices vortices  matter matter (physics) rotating matter . rotating fluids rotating liquids rotating plasmas degenerate matter
	. wings . rotary wings . circulation control rotors . lifting rotors . rigid rotors . tilting rotors . tilting rotors . tip driven rotors . x wing rotors rotating bodies . rotors . rotary wings . circulation control rotors	GS RT ∞ rotating	shafts (machine elements) viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery) g electrical machines	<b>rotating</b> GS RT	planetary waves rotation trapped vortices vortices matter matter (physics) rotating matter . rotating fluids rotating liquids rotating plasmas degenerate matter rotation
	. wings . rotary wings circulation control rotors lifting rotors bearingless rotors rigid rotors tilting rotors tilting rotors tilp driven rotors x wing rotors rotating bodies . rotors . rotary wings . circulation control rotors . lifting rotors . bearingless rotors . rigid rotors	GS T	shafts (machine elements) viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  gelectrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS	<b>rotating</b> GS RT	planetary waves rotation trapped vortices vortices matter matter (physics) . rotating matter . rotating fluids rotating liquids rotating plasmas degenerate matter rotation spin dynamics
	. wings . rotary wings circulation control rotors lifting rotors lifting rotors rigid rotors tilting rotors tip driven rotors x wing rotors rotating bodies . rotors . rotary wings circulation control rotors lifting rotors lifting rotors igid rotors tipting rotors tilting rotors tilting rotors tilting rotors tilting rotors	GS RT  RT  ∞ rotating SN	shafts (machine elements) viscometers viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  g electrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)	rotating GS RT rotating	planetary waves rotation trapped vortices vortices matter matter (physics) . rotating matter . rotating fluids rotating liquids rotating plasmas degenerate matter rotation spin dynamics
	. wings . rotary wings . circulation control rotors . lifting rotors . bearingless rotors . rigid rotors . tilting rotors . tip driven rotors . x wing rotors rotating bodies . rotors . rotary wings . circulation control rotors . lifting rotors . rigid rotors . tip driven rotors . rotary wings . circulation control rotors . lifting rotors . rigid rotors . tilting rotors	GS RT ∞ rotating	shafts (machine elements) viscometers viscometery  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  gelectrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) armatures	rotating GS RT rotating GS	planetary waves rotation trapped vortices vortices matter matter (physics) rotating matter . rotating fluids rotating liquids rotating plasmas degenerate matter rotation spin dynamics mirrors mirrors . rotating mirrors . rotating mirrors
	. wings . rotary wings circulation control rotors lifting rotors bearingless rotors rigid rotors tilting rotors tip driven rotors x wing rotors rotating bodies . rotors . rotary wings . circulation control rotors . lifting rotors . lifting rotors . tip driven rotors . tip driven rotors . tilting rotors . tilting rotors . tilting rotors . tip driven rotors . x wing rotors	GS RT  RT  ∞ rotating SN	shafts (machine elements) viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  g electrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) armatures commutators	rotating GS RT rotating GS	planetary waves rotation trapped vortices vortices watter matter (physics) . rotating matter . rotating fluids rotating liquids rotating plasmas degenerate matter rotation spin dynamics mirrors mirrors . rotating mirrors framing cameras
RT	. wings . rotary wings circulation control rotors lifting rotors bearingless rotors rigid rotors tilting rotors tilting rotors tilting rotors tilting rotors twing rotors rotating bodies . rotors . rotary wings circulation control rotors . lifting rotors bearingless rotors . rigid rotors tilting rotors tilting rotors tilting rotors tilting rotors tilting rotors wing rotors x wing rotors blade tips	GS RT  RT  ∞ rotating SN	shafts (machine elements) viscometers viscometery  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  gelectrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) armatures	rotating GS RT rotating GS	planetary waves rotation trapped vortices vortices matter matter (physics) rotating matter . rotating fluids rotating liquids rotating plasmas degenerate matter rotation spin dynamics mirrors mirrors . rotating mirrors . rotating mirrors
RT	. wings . rotary wings circulation control rotors lifting rotors bearingless rotors rigid rotors tilting rotors tilting rotors tilting rotors x wing rotors rotating bodies . rotors . rotary wings circulation control rotors . lifting rotors bearingless rotors . rigid rotors tilting rotors tilting rotors tilting rotors tilting rotors tilting rotors tilting rotors x wing rotors blade tips blades	GS RT  RT  ∞ rotating SN	shafts (machine elements) viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  gelectrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) armatures commutators electric hybrid vehicles	rotating GS RT rotating GS RT	planetary waves rotation trapped vortices vortices  matter matter (physics) . rotating matter . rotating fluids rotating plasmas degenerate matter rotation spin dynamics mirrors mirrors . rotating mirrors framing cameras high speed cameras
RT	. wings . rotary wings . circulation control rotors . lifting rotors . bearingless rotors . rigid rotors . tilting rotors . tilting rotors . tilp driven rotors . x wing rotors rotating bodies . rotors . rotary wings . circulation control rotors . lifting rotors . rigid rotors . tilting rotors . tilp driven rotors . x wing rotors blade tips blades blades blades	GS RT  RT  ∞ rotating SN  RT	shafts (machine elements) viscometers viscometry  disks disks (shapes) . rotating disks rotating disks rotating disks accretion disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  gelectrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) armatures commutators electric hybrid vehicles electric motors	rotating GS RT rotating GS RT	planetary waves rotation trapped vortices vortices  matter matter (physics) . rotating matter . rotating fluids rotating plasmas degenerate matter rotation spin dynamics  mirrors mirrors . rotating mirrors framing cameras high speed cameras plasmas
RT	. wings . rotary wings circulation control rotors lifting rotors bearingless rotors rigid rotors tilting rotors tilting rotors tilting rotors x wing rotors rotating bodies . rotors . rotary wings . circulation control rotors . lifting rotors . lifting rotors tilting rotors blade tips blades blades blade-vortex interaction convertible fan-shaft engines	GS RT  RT  ∞ rotating SN  RT	shafts (machine elements) viscometers viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  gelectrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) armatures commutators electric hybrid vehicles electric motors induction motors	rotating GS RT rotating GS RT	planetary waves rotation trapped vortices  matter matter (physics) . rotating matter . rotating fluids rotating liquids rotating plasmas degenerate matter rotation spin dynamics  mirrors mirrors . rotating mirrors framing cameras high speed cameras matter (physics)
RT	. wings . rotary wings circulation control rotors lifting rotors bearingless rotors rigid rotors tilting rotors tilting rotors tilting rotors tilting rotors rotating bodies . rotors . rotary wings . circulation control rotors . lifting rotors bearingless rotors rigid rotors tilting rotors tilting rotors tilting rotors tilting rotors tilting rotors tilting rotors tild rotors tild rotors tild rotors x wing rotors blade tips blades blade-vortex interaction convertible fan-shaft engines fan blades	GS RT  RT  ∞ rotating SN  RT	shafts (machine elements) viscometers viscometry  disks disks (shapes) . rotating disks rotating disks rotating disks accretion disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery) gelectrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) armatures commutators electric hybrid vehicles electric motors induction motors machinery rotating generators rotors	rotating GS RT rotating GS RT	planetary waves rotation trapped vortices vortic
RT	. wings . rotary wings circulation control rotors lifting rotors bearingless rotors rigid rotors tilting rotors tilting rotors tilting rotors x wing rotors rotating bodies . rotors . rotary wings . circulation control rotors . lifting rotors . lifting rotors tilting rotors blade tips blades blades blade-vortex interaction convertible fan-shaft engines	GS RT  RT  ∞ rotating SN  RT	shafts (machine elements) viscometers viscometry  disks disks (shapes) . rotating disks rotating disks rotating disks accretion disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  gelectrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) armatures commutators electric hybrid vehicles electric motors induction motors machinery rotating generators rotors servomotors	rotating GS RT rotating GS RT	planetary waves rotation trapped vortices  matter matter (physics) . rotating matter . rotating fluids rotating plasmas degenerate matter rotation spin dynamics  mirrors mirrors . rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating matter . rotating fluids
RT	. wings . rotary wings circulation control rotors lifting rotors bearingless rotors rigid rotors tilting rotors tilting rotors tilting rotors tilting rotors tilting rotors rotating bodies . rotors . rotary wings circulation control rotors . lifting rotors . lifting rotors ipearingless rotors . rigid rotors tilting rotors tilting rotors tilting rotors tilting rotors tilting rotors blade tips blades blade-vortex interaction convertible fan-shaft engines fan blades flapping hinges	GS RT  RT  ∞ rotating SN  RT	shafts (machine elements) viscometers viscometry  disks disks (shapes) . rotating disks rotating disks rotating disks accretion disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery) gelectrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) armatures commutators electric hybrid vehicles electric motors induction motors machinery rotating generators rotors	rotating GS RT rotating GS RT	planetary waves rotation trapped vortices  matter matter (physics) . rotating matter . rotating fluids rotating plasmas degenerate matter rotation spin dynamics  mirrors mirrors . rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating matter . rotating matter . rotating matter . rotating mirrors
RT	. wings . rotary wings . circulation control rotors . lifting rotors . lifting rotors . rigid rotors . tilting rotors . tilting rotors . tip driven rotors . x wing rotors rotating bodies . rotors . rotary wings . circulation control rotors . lifting rotors . lifting rotors . tip driven rotors . x wing rotors blade tips blades blade-vortex interaction convertible fan-shaft engines fan blades flapping hinges folding structures ground resonance harmonic control	GS RT  ∞ rotating SN  RT	shafts (machine elements) viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks accretion disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  gelectrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) armatures commutators electric hybrid vehicles electric motors induction motors machinery rotating generators rotors servomotors stators	rotating GS RT rotating GS RT	planetary waves rotation trapped vortices vortic
RT	. wings . rotary wings . circulation control rotors . lifting rotors . bearingless rotors . tilting rotors . trotary wings . circulation control rotors . lifting rotors . lifting rotors . irigid rotors . tip driven rotors rigid rotors . tip driven rotors . tip driven rotors . tip driven rotors . tip driven rotors . a wing rotors lade tips blades blade-vortex interaction convertible fan-shaft engines fan blades flapping hinges folding structures ground resonance harmonic control helicopter propeller drive	GS RT  ∞ rotating SN  RT	shafts (machine elements) viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  gelectrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) armatures commutators electric hybrid vehicles electric motors induction motors omachinery rotating generators rotors servomotors stators	rotating GS RT rotating GS RT	planetary waves rotation trapped vortices  matter matter (physics) . rotating matter . rotating fluids rotating plasmas degenerate matter rotation spin dynamics  mirrors mirrors . rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating matter . rotating matter . rotating fluids rotating plasmas patticles rotating plasmas particles . charged particles
RT ∞	. wings . rotary wings circulation control rotors lifting rotors bearingless rotors rigid rotors tilting rotors tilting rotors tilting rotors tilting rotors x wing rotors rotating bodies . rotors . rotary wings . circulation control rotors . lifting rotors . lifting rotors . rigid rotors . tilting rotors . tilting rotors . tilting rotors . tilting rotors blade tips blades blade-vortex interaction convertible fan-shaft engines fan blades flapping hinges folding structures ground resonance harmonic control helicopter propeller drive helicopter tail rotors	GS RT  ∞ rotating SN  RT	shafts (machine elements) viscometers viscometers viscometry  disks disks (shapes) . rotating disks rotating disks rotating disks accretion disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery) gelectrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) armatures commutators electric hybrid vehicles electric motors induction motors machinery rotating generators rotors servomotors stators  environments environments	rotating GS RT rotating GS RT	planetary waves rotation trapped vortices  matter matter (physics) . rotating matter . rotating fluids rotating plasmas degenerate matter rotation spin dynamics  mirrors mirrors . rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating matter . rotating fluids rotating plasmas particles crotating plasmas particles charged particles energetic particles
RT ∞	. wings . rotary wings . circulation control rotors . lifting rotors . lifting rotors . rigid rotors . tilting rotors . tilting rotors . tilting rotors . tilting rotors . x wing rotors rotating bodies . rotors . rotary wings . circulation control rotors . lifting rotors . lifting rotors . rigid rotors . tilting rotors . tilting rotors . tilting rotors . tilting rotors blade tips blades blade tops blades blade-vortex interaction convertible fan-shaft engines fan blades flapping hinges folding structures ground resonance harmonic control helicopter propeller drive helicopter tail rotors lift fans	GS RT  ∞ rotating SN  RT  rotating GS	shafts (machine elements) viscometers viscometers viscometry  disks disks (shapes) . rotating disks rotating disks rotating disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  gelectrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) armatures commutators electric hybrid vehicles electric motors induction motors machinery rotating generators rotors servomotors stators  environments environments . rotating environments	rotating GS RT rotating GS RT	planetary waves rotation trapped vortices  matter matter (physics) . rotating matter . rotating fluids rotating plasmas degenerate matter rotation spin dynamics  mirrors mirrors . rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating matter . rotating matter . rotating fluids rotating plasmas patticles rotating plasmas particles . charged particles
RT ∞	. wings . rotary wings . circulation control rotors . lifting rotors . lifting rotors . rigid rotors . tilting rotors . tilting rotors . tilting rotors . tilting rotors . tip driven rotors . twing rotors rotating bodies . rotors . rotary wings . circulation control rotors . lifting rotors . lifting rotors . tilting rotors . lifting rotors . tilting rotors . lifting rotors . rotary wings . rotors . rotary wings . rotors . lifting rotors . lifting rotors . rotigid rotors . tilting rotors . tilting rotors . lifting rotors . lifting rotors . rotigid rotors . rotary wings . rotary wings . rotors . rotary wings . rotary wings . rotors . rotary wing	GS RT  ∞ rotating SN  RT	shafts (machine elements) viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  electrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) armatures commutators electric hybrid vehicles electric motors induction motors machinery rotating generators rotors servomotors stators  environments environments artificial gravity	rotating GS RT rotating GS RT	planetary waves rotation trapped vortices  matter matter (physics) . rotating matter . rotating fluids rotating plasmas degenerate matter rotation spin dynamics  mirrors mirrors . rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating matter . rotating matter . rotating matter . rotating fluids rotating plasmas particles . charged particles . energetic particles plasmas (physics) rotating plasmas . corpuscular radiation
RT ∞	. wings . rotary wings . circulation control rotors . lifting rotors . lifting rotors . rigid rotors . tilting rotors . tilting rotors . tilting rotors . tip driven rotors . tymp rotors rotating bodies . rotors . rotary wings . circulation control rotors . lifting rotors . lifting rotors . tip driven rotors . tymp driven rotors . tymp rotors . rotary wings . tip driven rotors . tymp rotors . tym	GS RT  ∞ rotating SN  RT  rotating GS	shafts (machine elements) viscometers viscometers viscometry  disks disks (shapes) . rotating disks rotating disks rotating disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  gelectrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) armatures commutators electric hybrid vehicles electric motors induction motors machinery rotating generators rotors servomotors stators  environments environments . rotating environments	rotating GS RT rotating GS RT	planetary waves rotation trapped vortices  matter matter (physics) . rotating matter . rotating fluids rotating plasmas degenerate matter rotation spin dynamics  mirrors mirrors . rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating matter . rotating fluids rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating matter . rotating fluids rotating plasmas particles energetic particles plasmas (physics) rotating plasmas
RT ∞	. wings . rotary wings . circulation control rotors . lifting rotors . bearingless rotors . rigid rotors . tilting rotors rotating bodies . rotors . rotary wings . circulation control rotors . lifting rotors . lifting rotors . tip driven rotors . rigid rotors . tip driven rotors . tip driven rotors blade tips blades blade-vortex interaction convertible fan-shaft engines fan blades flapping hinges folding structures ground resonance harmonic control helicopter propeller drive helicopter tail rotors lift fans propeller blades rotor blades rotor dynamics	GS RT  ∞ rotating SN  RT  rotating GS	shafts (machine elements) viscometers viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  gelectrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) armatures commutators electric hybrid vehicles electric motors induction motors rotating generators rotors servomotors stators  environments environments . rotating environments artificial gravity Barany chair	rotating GS RT rotating GS RT	planetary waves rotation trapped vortices  matter matter (physics) . rotating matter . rotating fluids rotating plasmas degenerate matter rotation spin dynamics  mirrors mirrors . rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating mitter . rotating mitter . rotating mitter . rotating mitter . rotating matter . rotating mitter . rotating fluids rotating plasmas particles . charged particles energetic particles plasmas (physics) rotating plasmas . corpuscular radiation . energetic particles plasmas (physics) plasmas (physics)
RT ∞	. wings . rotary wings . circulation control rotors . lifting rotors . lifting rotors . igid rotors . tigid rotors . tigid rotors . tip driven rotors . x wing rotors rotating bodies . rotors . rotary wings . circulation control rotors . lifting rotors . lifting rotors . tip driven rotors . wing rotors . tip driven rotors . lifting rotors . lifting rotors . tip driven rotors . tip driven rotors . tip driven rotors . a wing rotors blade tips blades blade-vortex interaction convertible fan-shaft engines fan blades flapping hinges folding structures ground resonance harmonic control helicopter propeller drive helicopter tail rotors lift fans propeller blades rotor blades rotor blades rotor dynamics tail rotors	GS RT  ∞ rotating SN  RT  rotating GS	shafts (machine elements) viscometers viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  electrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) armatures commutators electric hybrid vehicles electric motors induction motors machinery rotating generators rotors servomotors stators  environments environments . rotating environments artificial gravity Barany chair clinorotation clinostats Coriolis effect	rotating GS RT  rotating GS RT  rotating GS	planetary waves rotation trapped vortices  matter matter (physics) . rotating matter . rotating fluids rotating liquids rotating plasmas degenerate matter rotation spin dynamics  mirrors mirrors . rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating mitter . rotating mitter . rotating matter . rotating mitter . rotating plasmas particles . charged particles . energetic particles plasmas (physics) rotating plasmas . corpuscular radiation . energetic particles plasmas (physics) rotating plasmas . corpuscular radiation . energetic particles plasmas (physics) rotating plasmas
RT ∞	. wings . rotary wings . circulation control rotors . lifting rotors . bearingless rotors . rigid rotors . tilting rotors rotating bodies . rotors . rotary wings . circulation control rotors . lifting rotors . lifting rotors . tip driven rotors . rigid rotors . tip driven rotors . tip driven rotors blade tips blades blade-vortex interaction convertible fan-shaft engines fan blades flapping hinges folding structures ground resonance harmonic control helicopter propeller drive helicopter tail rotors lift fans propeller blades rotor blades rotor dynamics	GS RT  ∞ rotating SN  RT  rotating GS	shafts (machine elements) viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  gelectrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) armatures commutators electric hybrid vehicles electric motors induction motors machinery rotating generators rotors servomotors stators  environments environments . rotating environments artificial gravity Barany chair clinorotation clinostats Coriolis effect high gravity environments	rotating GS RT  rotating GS RT  rotating GS	planetary waves rotation trapped vortices  matter matter (physics) . rotating matter . rotating fluids rotating plasmas degenerate matter rotation spin dynamics  mirrors mirrors . rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating matter . rotating matter . rotating fluids rotating plasmas particles . charged particles energetic particles plasmas (physics) rotating plasmas . corpuscular radiation energetic particles plasmas (physics) rotating plasmas . corpuscular radiation energetic particles plasmas (physics) rotating plasmas rotating plasmas rotating plasmas
RT ∞	. wings . rotary wings . circulation control rotors . lifting rotors . lifting rotors . rigid rotors . tilting rotors . trotary wings . circulation control rotors . lifting rotors . lifting rotors . lifting rotors . tilting rotors . lifting rotors . filting rotors . lifting rotors lades ladicopter propeller drive helicopter tail rotors lift fans propeller blades rotor blades rotor dynamics tail rotors Tilt Rotor Research Aircraft Program	GS RT  ∞ rotating SN  RT  rotating GS	shafts (machine elements) viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  gelectrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) armatures commutators electric hybrid vehicles electric motors induction motors machinery rotating generators rotors servomotors stators  environments environments . rotating environments artificial gravity Barany chair clinorotation clinostats Coriolis effect high gravity environments Langley complex coordinator	rotating GS RT  rotating GS RT  rotating GS	planetary waves rotation trapped vortices  matter matter (physics) . rotating matter . rotating fluids rotating plasmas degenerate matter rotation spin dynamics  mirrors mirrors . rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating matter . rotating fluids rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating matter . rotating fluids rotating plasmas particles energetic particles energetic particles rotating plasmas diff rate nonequilibrium plasmas
RT ∞	. wings . rotary wings . circulation control rotors . lifting rotors . lifting rotors . rigid rotors . titling rotors . tip driven rotors . totors . rotary wings . circulation control rotors . lifting rotors . lifting rotors . tip driven rotors lade tips blades blade-vortex interaction convertible fan-shaft engines fan blades flapping hinges folding structures ground resonance harmonic control helicopter propeller drive helicopter tail rotors lift fans propeller blades rotor dynamics tail rotors little Rotor Research Aircraft Program V-22 aircraft	GS RT  ∞ rotating SN  RT  rotating GS	shafts (machine elements) viscometers viscometers viscometry  disks disks (shapes) . rotating disks rotating disks rotating disks accretion disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  gelectrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) armatures commutators electric hybrid vehicles electric motors induction motors machinery rotating generators rotors servomotors stators  environments environments artificial gravity Barany chair clinorotation clinostats Coriolis effect high gravity environments Langley complex coordinator spacecraft environments	rotating GS RT  rotating GS RT  rotating GS	planetary waves rotation trapped vortices  matter matter (physics) . rotating matter . rotating fluids rotating plasmas degenerate matter rotation spin dynamics  mirrors mirrors mirrors rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating mitter . rotating fluids . rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating fluids . rotating fluids . rotating plasmas particles . energetic particles . energetic particles . plasmas (physics) rotating plasmas . corpuscular radiation . energetic particles . plasmas (physics) rotating plasmas diff rate nonequilibrium plasmas plasma flux measurement
RT	. wings . rotary wings . circulation control rotors . lifting rotors . lifting rotors . rigid rotors . tilting rotors . tilting rotors . tilting rotors . tilting rotors . tip driven rotors . x wing rotors rotating bodies . rotors . rotary wings . circulation control rotors . lifting rotors . lifting rotors . rigid rotors . tip driven rotors . x wing rotors . tip driven rotors . tip driven rotors lade tips blades blades blade-vortex interaction convertible fan-shaft engines fan blades flapping hinges folding structures ground resonance harmonic control helicopter tail rotors lift fans propeller blades rotor blades rotor dynamics tail rotors Tilt Rotor Research Aircraft Program V-22 aircraft whirl towers	GS RT  ∞ rotating SN  RT  rotating GS	shafts (machine elements) viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  gelectrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) armatures commutators electric hybrid vehicles electric motors induction motors machinery rotating generators rotors servomotors stators  environments environments . rotating environments artificial gravity Barany chair clinorotation clinostats Coriolis effect high gravity environments Langley complex coordinator	rotating GS RT  rotating GS RT  rotating GS	planetary waves rotation trapped vortices  matter matter (physics) . rotating matter . rotating fluids rotating plasmas degenerate matter rotation spin dynamics  mirrors mirrors . rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating matter . rotating miter . rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating matter . rotating fluids rotating plasmas particles . charged particles . energetic particles plasmas (physics) rotating plasmas . corpuscular radiation . energetic particles plasmas (physics) rotating plasmas drift rate nonequilibrium plasmas plasma flux measurement theta pinch
RT	. wings . rotary wings . circulation control rotors . lifting rotors . lifting rotors . rigid rotors . titling rotors . tip driven rotors . totors . rotary wings . circulation control rotors . lifting rotors . lifting rotors . tip driven rotors lade tips blades blade-vortex interaction convertible fan-shaft engines fan blades flapping hinges folding structures ground resonance harmonic control helicopter propeller drive helicopter tail rotors lift fans propeller blades rotor dynamics tail rotors little Rotor Research Aircraft Program V-22 aircraft	GS RT  RT  ∞ rotating  RT  rotating  GS  RT	shafts (machine elements) viscometers viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks accretion disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  gelectrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) armatures commutators electric hybrid vehicles electric motors induction motors machinery rotating generators rotors servomotors stators  environments environments artificial gravity Barany chair clinorotation clinorotation clinostats Coriolis effect high gravity environments Langley complex coordinator spacecraft environments tumbling motion	rotating GS RT  rotating GS RT  rotating GS	planetary waves rotation trapped vortices  matter matter (physics) . rotating matter . rotating fluids rotating plasmas degenerate matter rotation spin dynamics  mirrors mirrors mirrors rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating mitter . rotating fluids . rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating fluids . rotating plasmas particles . charged particles . energetic particles . plasmas (physics) rotating plasmas . corpuscular radiation . energetic particles . plasmas (physics) rotating plasmas diff rate nonequilibrium plasmas plasma flux measurement
RT	. wings . rotary wings . circulation control rotors . lifting rotors . lifting rotors injust rotors . rigid rotors . tilting rotors . tilting rotors . tilting rotors . wing rotors rotating bodies . rotors . rotary wings . circulation control rotors . lifting rotors . lifting rotors . rigid rotors . tilting rotors . tilting rotors . tilting rotors . wing rotors blade tips blades blade-vortex interaction convertible fan-shaft engines fan blades flapping hinges folding structures ground resonance harmonic control helicopter propeller drive helicopter tail rotors lift fans propeller blades rotor blades rotor dynamics tail rotors Tilt Rotor Research Aircraft Program V-22 aircraft whirl towers	GS RT  RT  ∞ rotating GS  RT  rotating GS  RT	shafts (machine elements) viscometers viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  gelectrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) armatures commutators electric hybrid vehicles electric motors induction motors rotating generators rotors servomotors stators  environments environments . rotating environments artificial gravity Barany chair clinorotation clinostats Coriolis effect high gravity environments Langley complex coordinator spacecraft environments tumbling motion  fluids	rotating GS RT  rotating GS RT  rotating GS	planetary waves rotation trapped vortices  matter matter (physics) . rotating matter . rotating fluids rotating plasmas degenerate matter rotation spin dynamics  mirrors mirrors . rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating matter . rotating plasmas particles rotating plasmas particles energetic particles plasmas (physics) rotating plasmas rotating plasmas particles energetic particles plasmas (physics) rotating plasmas drift rate nonequilibrium plasmas plasma flux measurement theta pinch toroidal plasmas
RT	. wings . rotary wings . circulation control rotors . lifting rotors . lifting rotors . bearingless rotors . rigid rotors . tip driven rotors . x wing rotors rotating bodies . rotors . rotary wings . circulation control rotors . lifting rotors . tip driven rotors . x wing rotors . tip driven rotors . tip driven rotors . lifting rotors . tip driven rotors . a wing rotors blade tips blades blade vortex interaction convertible fan-shaft engines fan blades flapping hinges folding structures ground resonance harmonic control helicopter propeller drive helicopter tail rotors lift fans propeller blades rotor blades rotor blades rotor blades rotor dynamics tail rotors Tilt Rotor Research Aircraft Program V-22 aircraft whirl towers	GS RT  RT  ∞ rotating  RT  rotating  GS  RT	shafts (machine elements) viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  gelectrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) armatures commutators electric hybrid vehicles electric motors induction motors machinery rotating generators rotors servomotors stators  environments environments . rotating environments artificial gravity Barany chair clinorotation clinostats Coriolis effect high gravity environments Langley complex coordinator spacecraft environments tumbling motion  fluids matter (physics)	rotating GS RT  rotating GS RT  rotating GS	planetary waves rotation trapped vortices  matter matter (physics) . rotating matter . rotating fluids rotating plasmas degenerate matter rotation spin dynamics  mirrors mirrors . rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating matter . rotating fluids rotating plasmas plasmas plasmas priticles . charged particles . energetic particles rotating plasmas . corpuscular radiation . energetic particles plasmas (physics) rotating plasmas diff rate nonequilibrium plasmas plasma flux measurement theta pinch toroidal plasmas two fluid models
RT	. wings . rotary wings . circulation control rotors . lifting rotors . lifting rotors injust rotors . rigid rotors . tilting rotors . tilting rotors . tilting rotors . wing rotors rotating bodies . rotors . rotary wings . circulation control rotors . lifting rotors . lifting rotors . rigid rotors . tilting rotors . tilting rotors . tilting rotors . wing rotors blade tips blades blade-vortex interaction convertible fan-shaft engines fan blades flapping hinges folding structures ground resonance harmonic control helicopter propeller drive helicopter tail rotors lift fans propeller blades rotor blades rotor dynamics tail rotors Tilt Rotor Research Aircraft Program V-22 aircraft whirl towers	GS RT  RT  ∞ rotating GS  RT  rotating GS  RT	shafts (machine elements) viscometers viscometers viscometry  disks disks (shapes) . rotating disks rotating bodies . rotating disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  gelectrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) armatures commutators electric hybrid vehicles electric motors induction motors rotating generators rotors servomotors stators  environments environments . rotating environments artificial gravity Barany chair clinorotation clinostats Coriolis effect high gravity environments Langley complex coordinator spacecraft environments tumbling motion  fluids	rotating GS RT  rotating GS RT  rotating GS	planetary waves rotation trapped vortices  matter matter (physics) . rotating matter . rotating fluids rotating plasmas degenerate matter rotation spin dynamics  mirrors mirrors mirrors rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating mitter . rotating fluids rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating fluids rotating plasmas particles energetic particles plasmas (physics) rotating plasmas rotating plasmas corpuscular radiation energetic particles plasmas (physics) rotating plasmas diff rate nonequilibrium plasmas plasma flux measurement theta pinch toroidal plasmas tvo fluid models zeta pinch
RT	. wings . rotary wings . circulation control rotors . lifting rotors . lifting rotors . rigid rotors . titling rotors . titling rotors . titling rotors . titling rotors . tip driven rotors . rotary wings . circulation control rotors . lifting rotors . lifting rotors . tip driven rotors lade tips blades blade-vortex interaction convertible fan-shaft engines fan blades flapping hinges folding structures ground resonance harmonic control helicopter rail rotors lift fans propeller blades rotor blades rotor dynamics tail rotors Tilt Rotor Research Aircraft Program V-22 aircraft whirl towers  rotation  bodies rotating vehicles	GS RT  RT  ∞ rotating GS  RT  rotating GS  RT	shafts (machine elements) viscometers viscometers viscometry  disks disks (shapes) . rotating disks rotating disks rotating disks accretion disks counter rotation Karman-Bodewadt flow mistuning (turbomachinery)  gelectrical machines (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) armatures commutators electric hybrid vehicles electric motors induction motors machinery rotating generators rotors servomotors stators  genvironments environments artificial gravity Barany chair clinorotation clinostats Coriolis effect high gravity environments tangley complex coordinator spacecraft environments tumbling motion  fluids matter (physics) . rotating matter	rotating GS RT rotating GS RT rotating GS	planetary waves rotation trapped vortices  matter matter (physics) . rotating matter . rotating fluids rotating plasmas degenerate matter rotation spin dynamics  mirrors mirrors mirrors rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating mitter . rotating fluids rotating mirrors framing cameras high speed cameras  plasmas matter (physics) . rotating fluids rotating plasmas particles energetic particles plasmas (physics) rotating plasmas rotating plasmas corpuscular radiation energetic particles plasmas (physics) rotating plasmas diff rate nonequilibrium plasmas plasma flux measurement theta pinch toroidal plasmas tvo fluid models zeta pinch

	turboshafts	RT	absorption spectra		stator blades
			line spectra		turbine blades
	spheres rotating bodies		molecular excitation molecular rotation		
GS	. rotating spheres		molecular spectroscopy	rotor bo	ody interactions
	symmetrical bodies		rotational states		Aerodynamic interactions between a
	. bodies of revolution		vibrational spectra		er rotor and a body.
	spheres		.1.1.1	RT	aerodynamic characteristics
DT	rotating spheres	rotation			aerodynamic configurations helicopter design
RT	equators spherical shells	SN	d December 1993) (LIMITED TO MOLECULAR ENERGY		rotor aerodynamics
	Spriction sticils	0.1	LEVELS - EXCLUDES ROTATIONAL		rotor stator interactions
rotating	stalls		DYNAMICS OF VEHICLES OR OTHER BODIES)		
RT	aerodynamic stalling	GS	level (quantity)	rotor dis	ake.
	boundary layer separation compressor blades		. energy levels		turbine wheels
∞	rotor blades		molecular energy levels rotational states		
	stalling		molecular properties		
	turbocompressors		. molecular energy levels		<b>ynamics</b> ed July 1989)
rotatina	vohiolos	DT	. rotational states		rotordynamics
rotating	rotating bodies	RT	molecular excitation	RT	dynamic characteristics
OOL	vehicles		rotational spectra		dynamic response
		Rotifera			dynamic stability
rotation		DEF	A phylum of multicellular animals in the	~	<ul><li>dynamics</li><li>rotary stability</li></ul>
	The motion of a body about some line wherein the particles of the body		lom Eumatazoa. animals		rotary wings
	e line or its extensions have a zero	GS	. invertebrates		rotor aerodynamics
	relative to some reference. The line of		Rotifera		rotors
	y particles is called the axis of rotation.		microorganisms		structural vibration turbomachinery
	rotating, whirl, and whirling.	DT	. Rotifera		turbornachinery
UF	rotating whirl	RT	worms		
	whirling	rotochu	tes	rotor hu	
GS	gyration	GS	parachutes	USE	hubs rotors
	. rotation	DT	rotochutes		101013
	autorotation	RT	autorotation		_
	counter rotation	rotons		rotor lif	
	Earth rotation	GS	mechanics (physics)	GS	aerodynamic characteristics . lift
	galactic rotation		. fluid mechanics		rotor lift
	image rotation		fluid dynamics rotons		aerodynamic forces
	lunar rotation molecular rotation	RT	activation energy		. lift
	muon spin rotation		excitation		rotor lift
	planetary rotation		photons		dynamic characteristics . lift
	satellite rotation		rotation		rotor lift
	stellar rotation	rotor ae	rodynamics	RT	distribution (property)
	solar rotation clinorotation		mechanics (physics)		
	superrotation		. fluid mechanics	rotor sp	peed
RT	angular acceleration		fluid dynamics	GS	rates (per time)
	angular velocity		gas dynamics aerodynamics		. rotor speed
	axes of rotation circulation		rotor aerodynamics		velocity
	coning motion	RT	Ffowcs Williams-Hawkings equation	RT	. rotor speed angular velocity
	Coriolis effect		flapping		high speed
	cross polarization		flapping hinges ground resonance		labyrinth seals
	Faraday effect libration		rotor body interactions		tip speed
	motion		rotor dynamics		
	nutation		rotor stator interactions	rotor st	ator interactions
	pitch (inclination)		rotors	,	ed June 1995)
	polarization (spin alignment)		whirl towers		Aerodynamic interaction between a ro-
	polarization (waves) precession	∞ rotor bl	ades	tor and	a stator. aerodynamic interference
	revolving	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		interactional aerodynamics
	roll		LISTED BELOW)		rotary wing aircraft
	rotary stability	RT	helicopter tail rotors		rotor aerodynamics
	rotating bodies		mistuning (turbomachinery)		rotor blades (turbomachinery)
	rotating liquids rotating matter		rotary wings rotating stalls		rotor body interactions stator blades
	rotons		rotor blades (turbomachinery)		structural stability
	torque		tail rotors		supersonic turbines
	vortex avoidance		x wing rotors		surface noise interactions
	vortices	rotor ble	ades (turbomachinery)		tilt rotor aircraft turbine blades
	yaw	UF	impeller blades		turbine biades
rotationa			turbomachine blades		
USE	fluid flow		rotor blades (turbomachinery)		stems research aircraft
	vortices	RT	airfoils	GS	research vehicles
rotation	al spectra	~	blade tips blades		. research aircraft rotor systems research aircraft
	ed July 1989)	~	compressor blades		V/STOL aircraft
	molecular properties		compressor rotors		. rotary wing aircraft
	. molecular spectra		impellers	DT	rotor systems research aircraft
	rotational spectra spectra		mistuning (turbomachinery) rotor blades	RT∝	∘ aircraft aircraft design
	. molecular spectra	∞	rotor stator interactions		helicopters
	rotational spectra		rotors		NASA programs

0	∘ systems	transp	portation		Silicone rubber RTV-60 rubber (trademark)
rotorcra	ft	∞ routines			vulcanized elastomers
USE		SN (USE	OF A MORE SPECIFIC TERM IS		RTV-60 rubber (trademark)
	3	RECO LISTE	MMENDEDCONSULT THE TERMS D BELOW)		
rotordyi	namics		uter programs	Ruanda	
USE	rotor dynamics		uter systems programs	USE	Burundi Rwanda
			conversion routines		nwaliua
rotors			operating system (DOS)	rubber	
UF	rotor hubs		output routines ng routines	DEF	A material that is capable of recovering
GS	rotating bodies		iting systems (computers)		ge deformations quickly and forcibly, and
	. rotors		manuals (computer programs)		or already is modified to a state in which
	compressor rotors flywheels				entially insoluble (but can swell) in boiling
	. impellers	Rover project			such as benzene, methyl ethyl ketone,
	pump impellers	GS progra			anol-toluene azeotrope. elastomers
	rotary wings		SA programs SSA space programs	ao	. rubber
	circulation control rotors		over project		synthetic rubbers
	lifting rotors	. proje	• •		Adiprene (trademark)
	bearingless rotors		ver project		Buna (trademark)
	rigid rotors		ce programs		silicone rubber
	tilting rotors tip driven rotors	NA	SA space programs		RTV-40 rubber (trademark)
	x wing rotors		over project		RTV-60 rubber (trademark)
	tail rotors		reactors		Viton rubber (trademark) vulcanized elastomers
	helicopter tail rotors		ar engine for rocket vehicles		RTV-40 rubber (trademark)
	tip vanes		ar propulsion ar reactors		RTV-60 rubber (trademark)
	turbine wheels		(reactors (reactor in flight test)		chloroprene resins
БТ	wave rotors		t engine design	RT	guayule
RT	airfoils		ecraft propulsion		gums (substances)
	armatures centrifugal compressors				latex
	heavy lift airships	roving vehicle			organic materials
	mistuning (turbomachinery)		terrestrial roving vehicles		polyisoprenes
0	o rotating electrical machines		ce vehicles ng vehicles	rubber	coatings
	rotor aerodynamics		ar roving vehicles	GS	coatings
	rotor blades (turbomachinery)		unokhod lunar roving vehicles		. rubber coatings
	rotor dynamics		nanned lunar surface vehicles	RT	paints
	stators	Ma	rs roving vehicles		protective coatings
	turbines turbocompressors		larsokhod Mars roving vehicles	rubidiu	m
	turbocompressors turbomachine blades		sample return missions	GS	chemical elements
	turboshafts		tary landing tary surfaces	ao	. alkali metals
	wheels		rch vehicles		rubidium
	wings		al wheels		rubidium isotopes
			nned ground vehicles		rubidium 86
roughn	ess	∞ vehic			metals
GS	roughness				. alkali metals
	. sea roughness . surface roughness	∞ rovings	OF A MORE SPECIFIC TERM IS		rubidium rubidium isotopes
RT	coarseness		MMENDEDCONSULT THE TERMS		rubidium 86
	contours	LISTE	D BELOW)		
	flatness		osite materials (sheets)	rubidiu	m 86
	mechanical properties	yarns		GS	chemical elements
	motion stability	yumo			. alkali metals
	profilometers	Rowland circl	es		rubidium
	smoothing		gs (spectra)		rubidium isotopes rubidium 86
	surface properties	optica	al filters		. nuclides
	udu Avata Asuta a	RP-1 rocket p	ronollante		isotopes
GS GS	trip trajectories trajectories	GS prope			radioactive isotopes
us	. round trip trajectories		et propellants		rubidium 86
	circumlunar trajectories		uid rocket propellants		rubidium isotopes
RT	Earth-Moon trajectories	Ř	P-1 rocket propellants		rubidium 86
	interorbital trajectories		jet fuel		metals . alkali metals
	interplanetary flight	keros	ene		rubidium
	interplanetary trajectories	RPV			rubidium isotopes
	moon-Earth trajectories		tely piloted vehicles		rubidium 86
	orbital mechanics	OOL TOING	tery photed vernoles		
	spacecraft trajectories swingby technique	RS codes			m compounds
	Swingby teerinique	USE Reed	-Solomon codes		alkali metal compounds
Rouse	helts				chemical compounds
	∞ belts	RTM (composi		•	metal compounds
	cones (volcanoes)	USE resin	transfer molding	rubidiu	m isotopes
	earthquakes	RTV-40 rubbe	r (trademark)	GS	chemical elements
	geological faults	GS elasto			. alkali metals
	Mars volcanoes	. rubb			rubidium
	seismology		nthetic rubbers		rubidium isotopes
	tremors volcanoes		licone rubber		rubidium 86
	volcanology		RTV-40 rubber (trademark)		. nuclides
	. c.cariology		ulcanized elastomers		isotopes rubidium isotopes
routes			RTV-40 rubber (trademark)		rubidium 86
RT	air traffic control	RTV-60 rubbe	r (trademark)		metals
	flight plans	GS elasto	omers		. alkali metals
0	∘ paths	. rubb			rubidium
	site selection	syr	nthetic rubbers		rubidium isotopes

	rubidium 86		physical exercise		tearing
Rubis	rocket vehicle		walking	rural ar	926
GS		runoffs		RT	agriculture
ao	. multistage rocket vehicles	USE	drainage		farmlands
	Rubis rocket vehicle	OOL	diamage		grasslands
RT	solid propellant rocket engines	runway	alignment		land
	cond proponant roomet origines	SN	(ALIGNMENT WITH RUNWAYSNOT		megalopolises
ruby		SIN	ALIGNMENT OF RUNWAYS)		rangelands
RT	aluminum oxides	RT	aircraft landing		regional planning
	crystals		takeoff runs		residential areas
	,				suburban areas
ruby la	asers	runway	conditions		wilderness
ĞS	electronic equipment	GS			wilderriess
	. solid state devices		. runway conditions	rural la	nd use
	solid state lasers	RT	aviation meteorology	GS	land use
	ruby lasers		ice	ao	. rural land use
	stimulated emission devices		runway incursions	RT	agriculture
	. lasers		runways	• • • • • • • • • • • • • • • • • • • •	conservation
	solid state lasers		slush	~	odevelopment
	ruby lasers		surface roughness	_	Earth resources
RT	pulsed lasers		water		farmlands
	Q switched lasers		weather		grasslands
	Verneuil process				grazing
	•	runway	incursions		Great Plains Corridor (North America)
ruddei		(add	ed May 2006)		land
GS	control surfaces	DEF	Any occurrence at an airport involving		land management
	. rudders		raft, vehicle, person or object on the		orchards
	aerial rudders	ground,	that creates a collision hazard or results		rangelands
	marine rudders	in the lo	oss of separation with an aircraft taking		regional planning
RT	airfoils	off, inter	nding to take off or intending to land.		sites
	fins	GS	hazards		
	pintles		. aircraft hazards	Russia	
	stabilizers (fluid dynamics)		runway incursions	USE	Russian Federation
	sweptback tail surfaces	RT	aerospace safety		
	tabs (control surfaces)		aircraft accidents	Russia	n Federation
	tail assemblies		aircraft safety	(add	ed August 1993)
	tail surfaces		airfield surface movements	ÙF	Russia
	trapezoidal tail surfaces		airport surface detection equipment	GS	nations
			collision avoidance		. Russian Federation
rugge			collisions	RT	Asia
RT	durability		crashes		Automatic Universal Orbiting Stations
	∞ high resistance		flight safety		Europe
	mechanical properties		runway conditions		Moscow
	∞ rigidity		runways		Russian Space Program
rular n	nethod		situational awareness		
	∞ methodology				n Space Program
111	~ methodology	runway			ed September 1994)
rules		GS	landing aids	GS	programs
GS	rules		. airport lights		. space programs
ao	. flight rules		runway lights		Russian Space Program
	instrument flight rules		lighting equipment	RT	Commonwealth of Independent
	visual flight rules		. luminaires		States
	. Palmgren-Miner rule		airport lights		cosmonauts
	. phase rule		runway lights		Energiya launch vehicle
	. selection rules (nuclear physics)	RT	approach control		GLONASS
	. sum rules		oflares		Granat satellite
	. Whitham rule	0	o markers		international cooperation
RT	laws		runways		Kvant modules
	patent policy		searchlights		Proton launch vehicle
	policies		visual control		Russian Federation
	procurement policy				Soviet satellites
	regulations	runway			Soviet spacecraft
	sea law	DEF	A defined rectangular area on a land		U.S.S.R. space program
			prepared for the landing and takeoff run		Vertikal rockets
Rumar	nia		oft along its length.		:
USE	Romania	RT	airfield surface movements	rust fur	
			airports	UF	rusts (botany)
run tin	ne (computers)		landing	GS	plants (botany)
RT			landing aids		. fungi
	computers		landing mats	БТ	rust fungi
	time sharing		landing sites	RT	0
_			pavements	۰	o mold
	-Kutta method		runway conditions		parasitic diseases
	A method for the numerical solution of		runway incursions		plant diseases
	nary differential equation.		runway lights		
GS		•	∘strip takeoff	rusting GS	chemical reactions
	. numerical analysis			ds	
	numerical integration		taxiing		. oxidation
	Runge-Kutta method	prime	20		rusting
	. real variables	rupturir RT a	<b>ıg</b> ∘ blisters		corrosion
	measure and integration	UI o	bursts	RT	. rusting atmospheric effects
	numerical integration			R1	chemical attack
D.T.	Runge-Kutta method		cracking (fracturing) disrupting		coatings
ΚI	∞ methodology		failure		coatings corrosion resistance
runnin	a		fracture mechanics		degradation
GS					desensitizing
	locomotion				
	locomotion		metal fatigue		
RT	. running		self sealing structural strain		deterioration hot corrosion

RT gait

metal-water reactions oxidation resistance scale (corrosion) weathering

rusts (botany) USE rust fungi

#### ruthenium

GS chemical elements

- . ruthenium
- . . ruthenium isotopes metals
- . noble metals
- . . ruthenium
- . . . ruthenium isotopes
- . transition metals
- ruthenium
- . . . ruthenium isotopes

ruthenium 106 USE **ruthenium isotopes** 

#### ruthenium alloys

GS alloys

. ruthenium alloys

#### ruthenium compounds

 $RT \propto chemical compounds$ ∞ metal compounds

transition metals

#### ruthenium isotopes

ruthenium 106 chemical elements . nuclides

. . isotopes

... ruthenium isotopes

. ruthenium

. . ruthenium isotopes

. noble metals

. . ruthenium

... ruthenium isotopes

. transition metals . . ruthenium

... ruthenium isotopes

#### rutherfordium

RT

(added November 1994)
GS chemical elements
. rutherfordium

dubnium ∞ elements

### rutile

DEF A mineral form of titanium oxide (TiO2) (tetragonal crystallization), but usually produced chemically for use in ceramics and other prod-

GS chalcogenides

. oxides

. . metal oxides

. . . titanium oxides

. . . rutile

titanium compounds

titanium oxides

. . rutile

RT anatase coesite

cross relaxation

minerals pigments stishovite

#### Rwanda

Ruanda-Urundi GS nations . Rwanda 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

 $RT \, \infty \, aircraft$ 

#### Rydberg series

GS spectra

. radiation spectra

. . electromagnetic spectra

. . . line spectra

... Rydberg series

absorption spectra atomic spectra electron transitions emission spectra

H lines hydrogen

S band		~	military aircraft		. SA-321 helicopter
USE superh	igh frequencies		-		V/STOL aircraft
ultrahig	h frequencies	S-3 sate	ellite Explorer 12 satellite		. rotary wing aircraft
_		USL	Explorer 12 Satellite		helicopters military helicopters
S curves	24	S-6 sate			SA-321 helicopter
GS geomet	(geometry)	USE	Explorer 17 satellite	RT ∘	∘ aircraft
S cu		S-16 sa	tellite	SV-330	helicopter
	npertz curves		OSO-1	UF	•
	ean geometry tic geometry	C 17 00	tallita	GS	Sud Aviation aircraft
S c		S-17 sa	OSO-2		. Alouette helicopters
	ompertz curves				SA-330 helicopter transport aircraft
		S-18 sa			. SA-330 helicopter
S glass		USE	OAO		V/STOL aircraft
GS glass	-	S-27 sa	tellite		. rotary wing aircraft
. E glas <b>S gl</b> a		USE	Alouette 1 satellite		Alouette helicopters
	ite materials	S-49 sa	tellite		SA-330 helicopter
	per reinforced plastics		OGO-A		military helicopters
glass fil		0.50		DT.	SA-330 helicopter
silicon o	lioxide	S-50 sa	tellite OGO-C	NI º	o aircraft
C matrix theory		USL	040-0	Saab 37	7 aircraft
S matrix theory UF scattering	ng matrix	S-51 sa	tellite	GS	attack aircraft
	rs (mathematics)	USE	Ariel 1 satellite		. fighter aircraft Saab 37 aircraft
	ng cross sections	S-52 sa	tellite		jet aircraft
∞ theories		USE	Ariel 2 satellite		. turbofan aircraft
					Saab 37 aircraft
S stars	hadiaa	S-57 sa	tellite OSO-C		Saab aircraft . Saab 37 aircraft
GS celestia . stars	bodies	USL	030-0		supersonic aircraft
late s	stars	S-58 he	licopter		Saab 37 aircraft
coo		UF	Sikorsky S-58 helicopter	RT ∘	o aircraft
<b>S</b> RT asympto		GS	Sikorsky aircraft . S-58 helicopter		canard configurations Harrier aircraft
giant st	otic giant branch stars		transport aircraft		Tamer anotale
M stars			S-58 helicopter		05 aircraft
Mira va			V/STOL aircraft	GS	jet aircraft . turbofan aircraft
red giar	it stars		. rotary wing aircraft helicopters		Saab 105 aircraft
			S-58 helicopter		light aircraft
S waves	n an elastic media which cause	RT	CH-34 helicopter		. Saab 105 aircraft
	e medium to change its shape		UH-34 helicopter		monoplanes . Saab 105 aircraft
without a change	e in volume. Mathematically, S	S-61 he	licopter		Saab aircraft
	whose velocity field has zero	UF	Sikorsky S-61 helicopter		. Saab 105 aircraft
disturbances, an	d for secondary waves, shear	GS	Sikorsky aircraft		utility aircraft
	ary waves		. S-61 helicopter transport aircraft	RT 。	. Saab 105 aircraft ∘ aircraft
	isturbances		. S-61 helicopter		passenger aircraft
shear w			V/STOL aircraft		
GS elastic v			. rotary wing aircraft	Saab ai	
SH w			helicopters S-61 helicopter	do	Saab aircraft . Saab 37 aircraft
	ractures	RT ∝	aircraft		. Saab 105 aircraft
dilatatio P wave	nal waves		antisubmarine warfare aircraft	RT ∘	∘ aircraft
	d elastic waves		CH-3 helicopter	Sahatie	r reaction
	n waves		SH-3 helicopter SH-4 helicopter		chemical reactions
seismic			water takeoff and landing aircraft		. Sabatier reaction
surface	waves se waves	0 0 4 4		RT	photographic film
Hallsvel	00 may00	S-64 he	licopter CH-54 helicopter	Sabot r	projectiles
S-2 aircraft		OOL	on of hencopies		Projectiles having devices fitted
UF US-2A	aircraft	S-66 sa			or in back of the projectiles in gun barrels
	marine warfare aircraft	USE	Beacon Explorer A		ching tubes to support or protect the es or to prevent the escape of gas
. S-2 ai		S-67 he	licopter		of it. The sabot separates from the pro-
monopla . <b>S-2 ai</b>		UF		jectile a	fter launching.
utility ai		GS	Sikorsky aircraft	GS	projectiles
. S-2 ai	rcraft		. S-67 helicopter V/STOL aircraft	RT	. Sabot projectiles artillery
RT ∞ aircraft			. rotary wing aircraft	111	fragmentation
			helicopters		gun launchers
S-3 aircraft	a ive we ft		compound helicopters		guns (ordnance)
UF <i>ES-3A a</i> <i>KS-3 ai</i>			S-67 helicopter military helicopters	sabota	ae
	marine warfare aircraft		S-67 helicopter	DEF	Deliberate destructive action that may
. S-3 ai		RT ∝	⇒ aircraft		cted against property, processes, sys-
jet aircr		C 7/ a-	tallita		organizations, governments, or people
. <b>S-3 ai</b> Lockhe	ed aircraft	S-74 sa USE	Explorer 18 satellite		t is intended to prevent a process, un- e a group, or interfere with progress
. S-3 ai				towards	a goal.
monopla			helicopter	RT	accidents
. <b>S-3 ai</b> RT ∞ aircraft	rcran	UF GS	Sud Aviation SA-321 helicopter Sud Aviation aircraft		air defense damage
∽ anciall		as	Jud Aviation alloralt		daniago

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	risk management
terrorism	air bag restraint devices	warning systems
		warning systems
wreckage	crashes	
	∞ detectors	SAGE air defense system
Sabre aircraft	emergency life sustaining systems	GS air defense
USE F-86 aircraft		. SAGE air defense system
COL I CO UII CIUIT	energy policy	
Cabralinas aisasaft	explosions	RT ∞ systems
Sabreliner aircraft	fire prevention	
USE T-39 aircraft	fireproofing	SAGE satellite
	fires	DEF Spacecraft for the study of strato-
Saccadic eye movements	hazards	spheric aerosols and gases. Used for Strato-
GS eye movements		
,	prevention	spheric Aerosol & Gas Experiment.
Saccadic eye movements	protection	UF Stratospheric Aerosol & Gas
RT fovea	sabotage	Experiment
∞ motion		GS artificial satellites
visual fields	∞ storage	
vioudi noido	vortex avoidance	SAGE satellite
	warning	RT aerosols
saccharides	warning systems	ozone
USE carbohydrates	warming dyotomic	
-	andaha dandara	Coningue Boy (MI)
saccharomyces	safety devices	Saginaw Bay (MI)
	GS safety devices	GS bays (topographic features)
1 \ 3/	. abort apparatus	Saginaw Bay (MI)
. fungi	. air bag restraint devices	RT inlets (topography)
saccharomyces		
····· <b>,</b> ····	. arresting gear	Lake Huron
Sacramento Valley (CA)	. ejection seats	Michigan
	flying ejection seats	river basins
GS valleys	. escape capsules	
. Sacramento Valley (CA)		Conittorius constallation
RT California	. escape rockets	Sagittarius constellation
river basins	. helmets	GS constellations
Tiver basins	. seat belts	. Sagittarius constellation
	RT accident prevention	•
saddle points		Sagnac effect
GS saddle points	accident proneness	
. saddle points (game theory)	accidents	DEF A phase shift (and consequent mea-
	aircraft safety	surable rotation rate) caused by nonreciprocity
3	ambulances	(different optical path lengths) of two counter-
game theory		propagating light waves traveling in the same
minimax technique	antiskid devices	
'	automobile accidents	coil in a fiber optic gyro or ring interferometer.
saddle points (game theory)	∞ barriers	GS phase shift
	chemical defense	. Sagnac effect
GS game theory		
. saddle points (game theory)	deflectors	RT angular velocity
saddle points	∞ devices	astronomical interferometry
. saddle points (game theory)	emergency life sustaining systems	etalons
		fiber optics
RT operations research	enclosures	
saddles	∞ equipment	interferometers
∞ theories	fail-safe systems	interferometry
zero sum games	fire prevention	laser gyroscopes
zero sum games	flame deflectors	laser interferometry
saddles	flight safety	light transmission
RT saddle points (game theory)	gates (openings)	nonlinear optics
1 (3 )/	guards (shields)	optical gyroscopes
saddles (supports)	harnesses	optical paths
GS structural members	hazards	speckle interferometry
. saddles (supports)	human factors engineering	wave propagation
supports	landing aids	
. saddles (supports)	pressure suits	Saha equations
. Jacanos (Japporto)	•	RT arc heating
0	protection	
Saenger space transportation system	protective clothing	electric arcs
(added September 1995)	protectors	∞ equations
UF Sanger space transportation system	radiation measuring instruments	ion density (concentration)
GS transportation	radiation shielding	ionization potentials
•	•	temperature
. space transportation	shielding	temperature
space transportation system	smoke detectors	
Saenger space transportation	space suits	Sahara Desert (Africa)
system	spacecraft shielding	GS land
		. deserts
	warning	
German space program	warning systems	Sahara Desert (Africa)
piggyback systems	<del>-</del> -	RT Africa
ramjet engines	safety factors	arid lands
		barren land
reusable spacecraft	RT accident proneness	
	aerospace safety	desertification
Safeguard system	design analysis	dunes
GS weapon systems	escape systems	remote regions
. missile systems	hazards	Ŭ
		SAII project
Safeguard system	health physics	SAIL project
RT antimissile defense	reliability	UF Shuttle Avionics Integration
ballistic missiles	stability	Laboratory
military technology		GS programs
	cafaty management	
missile defense	safety management	. NASA programs
Sentinel system	GS management	NASA space programs
∞ systems	. safety management	SAIL project
-7	RT accident prevention	. projects
cafety		
safety	aerospace safety	SAIL project
GS safety	Assured Crew Return Vehicle	. space programs
. aerospace safety	education	NASA space programs

	SAIL project	RT	brines		. nuclides
RT	Earth Viewing Applications Laboratory		heat treatment		isotopes
	laboratories		molten salts		samarium isotopes
	space laboratories space shuttles	salt bed	ds		. rare earth elements samarium
	opaco chamos	DEF	Deposits of sodium chloride and other		samarium isotopes
sailplane			sulting from the evaporation and/or pre-		metals
USE	gliders	cipitatio	n of ancient oceans. geology		. rare earth elements
sails		ao	. beds (geology)		samarium isotopes
GS	sails		salt beds		· · · · · · · · · · · · · · · · · · ·
	. magnetic sails		landforms	Samoa	
	. sailwings . solar sails		. beds (geology) salt beds	GS	landforms . islands
RT	fins	RT	brines		Pacific islands
	gliders		bromides		Samoa
	tail assemblies		chlorides	Comoo	
sailwing	gs		flats (landforms) sodium chlorides	Samos UF	Satellite and Missile Observation
UF	Princeton sailwings		Soulain Gineriaes	0.	System
GS	folding structures	salt flats		GS	artificial satellites
	. <b>sailwings</b> sails	USE	flats (landforms)		. Samos
	. sailwings	salt spr	ay tests		military spacecraft . reconnaissance spacecraft
RT	gliders	GS	chemical tests		Samos
	hang gliders		. salt spray tests	RT	satellite tracking
Saint El	Imo fire		environmental tests . corrosion tests	samnle	return missions
GS	electric current		salt spray tests	•	ed March 2001)
	. electric discharges	RT	corrosion	ĎEF	Space missions to collect material
RT	Saint Elmo fire fires		corrosion resistance		from interplanetary space, a planet, or
			spray ingestion stress corrosion		dy and return the samples to Earth. space missions
	enant flexure problem	•	• tests	ao	. sample return missions
USE	Saint Venant principle				Mars sample return missions
Saint Ve	enant principle	Salton : GS	Sea (CA) seas		Stardust Mission
UF	Saint Venant flexure problem	GS	Salton Sea (CA)	RT	samples
БТ	St Venant flexure problem	RT	California		space exploration
RT	plastic deformation static deformation		deserts		d data systems
	static loads	∞ salts			ed July 1990)
	stress analysis	SN	(USE OF A MORE SPECIFIC TERM IS	RT	adaptive control automatic control
	stress concentration		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		control stability
	temperature inversions	RT	halites		control theory
salicyla	tes		inorganic compounds		data sampling
GS	salicylates		molten salts		feedback control
RT	. sodium salicylates acetylsalicylic acid		organic charge transfer salts organic compounds	sampler	s
П	drugs		sodium chlorides	ÚF	bombs (samplers)
	esters		sulfonates	DT	sampling devices bombs
a a li mitu			snace station	nı∝	
salinity		Salvut			core sampling
GS	chemical properties	Salyut : GS	artificial satellites		core sampling samples
GS	chemical properties . salinity				samples sampling
GS RT	salinity alkalinity		artificial satellites . space stations . Salyut space station		samples sampling selectors
	salinity alkalinity brines		artificial satellites . space stations Salyut space station manned spacecraft	œ	samples sampling
	. salinity alkalinity brines core sampling		artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station	∞ samples	samples sampling selectors test equipment
	salinity alkalinity brines		artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station	samples DEF	samples sampling selectors test equipment  Physical or biological specimens in-
	salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters		artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations	samples DEF tended t	samples sampling selectors test equipment  Physical or biological specimens into be representative of the whole.
	salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water		artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations . space stations	samples DEF	samples sampling selectors test equipment  B Physical or biological specimens in-
	salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling		artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations	samples DEF tended t	samples sampling selectors test equipment  Physical or biological specimens in- obe representative of the whole. samples . Mars surface samples acceptability
RT	salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water	ĞS	artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations . space stations . Salyut space station Soyuz spacestation Soyuz spacecraft space bases	samples DEF tended t GS	samples sampling selectors test equipment  Physical or biological specimens in- to be representative of the whole. samples . Mars surface samples acceptability Mars sample return missions
RT	salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling thermohaline circulation	ĞS	artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations . space stations . Salyut space station Soyuz spacecraft space bases space laboratories	samples DEF tended t GS	samples sampling selectors test equipment  Physical or biological specimens into be representative of the whole. samples . Mars surface samples acceptability Mars sample return missions sample return missions
RT	salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling thermohaline circulation	ĞS	artificial satellites space stations . Salyut space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations . space stations . Salyut space station Soyuz spacecraft space bases space laboratories spacecraft docking	samples DEF tended t GS	samples sampling selectors test equipment  Physical or biological specimens in- to be representative of the whole. samples . Mars surface samples acceptability Mars sample return missions
RT	salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling thermohaline circulation	ĞS	artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations . space stations . Salyut space station Soyuz spacecraft space bases space laboratories	samples DEF tended t GS	samples sampling selectors test equipment  By Physical or biological specimens into be representative of the whole. samples . Mars surface samples acceptability Mars sample return missions sample return missions samplers
RT saliva GS	. salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling thermohaline circulation  body fluids . saliva digestive system mucus	ĞS RT Samarit	artificial satellites . space stations . Salyut space station manned spacecraft . 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	samples DEF tended t GS RT	samples sampling selectors test equipment  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
RT saliva GS	salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling thermohaline circulation  body fluids saliva digestive system	ĞS RT Samarit	artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations . space stations . Salyut space station sojuz spacecraft space bases space laboratories spacecraft docking U.S.S.R. space program	sampler DEF tended t GS RT	samples sampling selectors test equipment  By 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
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saliva GS RT	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	ĞS RT Samarit USE <b>samari</b> t	artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations . space stations . Salyut space station Soyuz spacecraft space bases space laboratories space laboratories spacecraft docking U.S.S.R. space program an aircraft C-131 aircraft um chemical elements . rare earth elements	samples DEF tended t GS RT  samplin DEF the mate	samples sampling sampling selectors test equipment  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  g Obtaining of a portion representative of brial concerned. sampling . air sampling
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saliva GS RT salivary UF	. 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 . digestive system . salivary glands . glands (anatomy) . salivary glands mouth	ĞS RT Samarit USE <b>samari</b> t	artificial satellites . space stations . Salyut space station manned spacecraft . 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 an aircraft C-131 aircraft Im chemical elements . rare earth elements . samarium samarium isotopes metals . rare earth elements . samarium	samples DEF tended t GS RT  samplin DEF the mate	samples sampling selectors test equipment  By 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  g Obtaining of a portion representative of return concerned. sampling air sampling core sampling core sampling particulate sampling random sampling soil sampling soil sampling
saliva GS RT salivary UF GS	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 salivary glands parotid gland anatomy salivary glands glands (anatomy) salivary glands	ĞS RT Samarit USE <b>samari</b> t	artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations . space stations . Salyut space station Soyuz spacecraft space bases space laboratories space laboratories spacecraft docking U.S.S.R. space program an aircraft C-131 aircraft  Im	sampler DEF tended t GS RT  samplin DEF the mate GS	samples sampling selectors test equipment  S Physical or biological specimens in- obe representative of the whole. samples . Mars surface samples acceptability Mars sample return missions sample return missions samplers sampling specimens  g Obtaining of a portion representative of orial concerned. sampling . air sampling . core sampling . care sampling . particulate sampling . random sampling . soil sampling . soil sampling . soil sampling . water sampling . water sampling
saliva GS RT salivary UF GS	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 RT Samarit USE <b>samari</b> t GS	artificial satellites . space stations . Salyut space station manned spacecraft . 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 an aircraft C-131 aircraft Im chemical elements . rare earth elements . samarium samarium isotopes metals . rare earth elements . samarium	samples DEF tended t GS RT  samplin DEF the mate	samples sampling selectors test equipment  By 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  g Obtaining of a portion representative of return concerned. sampling air sampling core sampling core sampling particulate sampling random sampling soil sampling soil sampling
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saliva GS RT salivary UF GS	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 digestive system salivary glands glands (anatomy) salivary glands mouth saliva ella microorganisms	ĞS  RT  Samarit USE  samarit GS  Samarit GS	artificial satellites space stations Salyut space station manned spacecraft Salyut space station Soviet spacecraft Salyut space station stations space stations Soyuz spacecraft space station Soyuz spacecraft space bases space laboratories spacecraft docking U.S.S.R. space program  an aircraft C-131 aircraft  Im chemical elements rare earth elements rare earth elements samarium compounds samarium compounds	sampler DEF tended t GS RT  samplin DEF the mate GS	samples sampling selectors test equipment  Physical or biological specimens in- obe representative of the whole. samples . Mars surface samples acceptability Mars sample return missions samplers samplers sampling specimens  g Obtaining of a portion representative of orial concerned. sampling . air sampling . core sampling . core sampling . particulate sampling . random sampling . random sampling . soil sampling . water sampling allowances assaying Bayes theorem censored data (mathematics) chemical analysis
saliva GS RT salivary UF GS	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 digestive system salivary glands y alivary glands sqlands (anatomy) salivary glands mouth saliva  ella microorganisms bacteria salmonella	ĞS  RT  Samarit USE  samarit GS  Samarit GS	artificial satellites . space stations . Salyut space station manned spacecraft . 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  an aircraft C-131 aircraft  Im chemical elements . rare earth elements . samarium	sampler DEF tended t GS RT  samplin DEF the mate GS	samples sampling selectors test equipment  Physical or biological specimens in- obe representative of the whole. samples . Mars surface samples acceptability Mars sample return missions sampler return missions samplers sampling specimens  g Obtaining of a portion representative of orial concerned. sampling . air sampling . core sampling . care sampling . particulate sampling . random sampling . soil sampling . soil sampling . water sampling allowances assaying Bayes theorem censored data (mathematics)
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	counting		San Marco 3 satellite		soils
	estimating	RT	Scout launch vehicle	a a m du si	oh construction
	exploration Global Air Sampling Program			USE	ch construction sandwich structures
	heterogeneity	San Ma		OOL	Sundwich Structures
	homogeneity	GS	nations	sandwi	ch structures
	inspection	DT	_San Marino	UF	sandwich construction
	investigation	RT	Europe	RT	composite materials
	probability theory		Italy		epoxy matrix composites
	process control (industry)				honeycomb cores
	quality control		blo Bay (CA)		honeycomb structures
	random errors	GS	bays (topographic features)		interlayers laminates
	reliability Rosetta mission	RT	. San Pablo Bay (CA) California		multilayer insulation
	samplers	ΠI	San Francisco Bay (CA)		ply orientation
	samples		Carri Taricisco Bay (CA)		rigid structures
	selection			c	∞ structures
	sequential analysis	sand c			walls
	specimens	us	forming techniques . casting	Consor	anasa transportation avatam
	standards		sand casting		Saenger space transportation
	statistical analysis	RT	molding materials	OOL	system
۰	statistics		sands		o, 0.0
	sweep circuits ∘ tests			sanitati	ion
	variability	sand du	ines	RT	consumables (spacecrew supplies)
	Weibull density functions		dunes		health
	,				housekeeping (spacecraft)
samplin	g devices	Cond H	lille Begien (CA NC SC)		hygiene
USE	samplers	GS GS	lills Region (GA-NC-SC) regions		potable water public health
Con An	drago Foult	GS	. Sand Hills Region (GA-NC-SC)		sewers
GS GS	dreas Fault geological faults	RT	Georgia		toilets
do	. San Andreas Fault		North Carolina		warning systems
RT	California		South Carolina		waste disposal
	crustal fractures				waste management
	Earth crust	Sand H	lills Region (NE)	0	
	earthquakes	GS			vax (trademark)
	Mexico		Sand Hills Region (NE)	RT	polystyrene
Con An	draga Fault armanimant	RT	Nebraska	sapphi	re
RT	dreas Fault experiment earthquakes			GS	aluminum compounds
п	geological faults	Sandpi	per target missile		. aluminum oxides
	goological laute		missile configurations		sapphire
San Fra	ancisco (CA)		Sandpiper target missile		chalcogenides
GS	cities		missiles		. oxides
	San Francisco (CA)		Sandpiper target missile		metal oxides aluminum oxides
RT	California	RT	drone vehicles		sapphire
San Era	ancisco Bay (CA)		targets		заррише
GS	bays (topographic features)			saprop	hytes
ao	. San Francisco Bay (CA)	sands		GS	plants (botany)
RT	California	GS	sediments		. saprophytes
	Pacific Ocean		. sands	RT	bacteria
	San Pablo Bay (CA)		monazite sands		microorganisms
			tar sands soils	sarcina	1
	aquin Valley (CA) valleys		. sands	GS	microorganisms
do	. San Joaquin Valley (CA)		monazite sands		. bacteria
RT	California		tar sands		sarcina
	river basins	RT	aggregates		
			alluvium	sarcom	
	an Mountains (CO)		aquifers	USE	cancer
GS	landforms		deltas	sarcon	lasmic reticulum
	. mountains		dunes dust		organelles
RT	San Juan Mountains (CO) Colorado		Earth resources		. endoplasmic reticulum
111	Oliorado		fans (landforms)		sarcoplasmic reticulum
San Ma	rco 1 satellite		gravels	RT	cells (biology)
GS	artificial satellites		grit		cytology
	. meteorological satellites		ilmenite		cytoplasm
	San Marco satellites		littoral drift	Sargas	C
	San Marco 1 satellite		littoral transport		A region in the Atlantic characterized
San Ma	rco 2 satellite		molding materials		ng ocean currents and a lack of winds.
GS	artificial satellites		porous materials quartz		northeast of the West Indies.
0.0	. meteorological satellites		rain erosion	RT	Atlantic Ocean
	San Marco satellites		reefs		Gulf Stream
	San Marco 2 satellite		sand casting		ocean models
	0.000		sandstones		ocean surface
	rco 3 satellite		sedimentary rocks		oceanography
GS	artificial satellites meteorological satellites		silica glass		seas
	San Marco satellites		silicon dioxide	SarSat	
	San Marco 3 satellite			DEF	The US satellite of the COSPAS-
		sandst	ones	SarSat	project for the search and rescue of
	rco satellites	GS	rocks		ed vehicles, administered by USSR, US,
GS	artificial satellites		. sedimentary rocks		and Canadian agencies. Used for
	. meteorological satellites	D-	sandstones		and Rescue Satellite.
	San Marco satellites San Marco 1 satellite	RT	Earth resources	UF	Search and Rescue Satellite
	San Marco 1 satellite		sands schist	GS	artificial satellites . SarSat
	Jan Maioo & Jaitille		JUITIOL		. Jui Jai

RT	COSPAS	geodesy		satellite communication
	NOAA 8 satellite	geodetic satellites	RT	ACTS
	reconnaissance	geoids		ARPA computer network
	rescue operations	GEOS 3 satellite		astrionics
	searching	Geosat satellites		circumlunar communication
040		Ice, Cloud and Land Elevation		communication satellites
SAS UF	Small Astronomy Satellites	Satellite		Earth terminals
GS	artificial satellites	radar measurement satellite observation		facsimile communication
do	. scientific satellites	satellite-borne radar		free-space optical communication ground-air-ground communication
	astronomical satellites	SEASAT satellites		hoop column antennas
	SAS	topography		interplanetary communication
	Explorer 53 satellite	ιοροφιαριιγ		Iridium network
	SAS-1	Satellite and Missile Observation System		lunar communication
	SAS-2	USE Samos		multibeam antennas
	SAS-3			optical communication
	observatories	satellite antennas		packet transmission
	. astronomical observatories	GS antennas		plasma antennas
	astronomical satellites	. 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	satellite atmospheres		pulses
	Uhuru satellite	DEF The atmospheres that are found on		transmission rate (communications)
0404		natural satellites. GS environments		unified S band
SAS-1	Small Astronomy Satallita 1	GS environments . extraterrestrial environments	a a tallita	aammuniaatiana ahina
UF GS	Small Astronomy Satellite 1 artificial satellites	satellite atmospheres		communications ships
us	. scientific satellites	lunar atmosphere		USNS Kingsport
	. astronomical satellites	Titan atmosphere	ds	surface vehicles . satellite communications ships
	SAS	RT ∞ atmospheres		water vehicles
	SAS-1	atmospheric chemistry		. ships
	observatories	atmospheric composition		satellite communications ships
	. astronomical observatories	atmospheric physics	RT	satellite communication
	astronomical satellites	Earth atmosphere		spacecraft communication
	SAS	Earth ionosphere		Spassoran 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	stellar atmospheres		ed February 1994)
	astronomical satellites	Titan		satellite clusters
	SAS	Triton	GS	networks
	SAS-2	upper atmosphere		. satellite networks
	observatories . astronomical observatories	satellite attitude control		constellations Constellation-X
	astronomical satellites	GS attitude control		Iridium network
	SAS	. satellite attitude control	RT	communication networks
	SAS-2	spacecraft control		communication satellites
RT	Explorer 48 satellite	. satellite control		formation flying
	radio astronomy	satellite attitude control		Global Positioning System
	spaceborne astronomy	RT attitude stability		microsatellites
		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		
	SAS	longitudinal control	satellite	
	SAS-3	Marquardt R4D engine	GS	spacecraft control
	observatories	three axis stabilization		. satellite control
	. astronomical observatories	Transit Attitude Control satellite	DT	satellite attitude control
	satronomical satellites SAS	satellite attitude disturbance	RT	attitude control
	<b>SAS-3</b>	USE attitude stability		automatic control control
RT	Explorer 53 satellite	spacecraft stability	~	directional control
	radio astronomy	opusosiait stability		flexible spacecraft
	spaceborne astronomy	satellite breakup		formation flying
	x ray astronomy	USE spacecraft breakup		gravity gradient satellites
	, ,	·		jet control
SAS-D		satellite capture		lateral control
USE	IUE	USE spacecraft recovery		longitudinal control
				manual control
Saskatc		satellite clusters		remote control
GS	nations	USE satellite constellations		thrust control
	. Canada			
	Saskatchewan	satellite communication	satellite	
04=4		DEF Use of communication satellites, pas-	USE	spacecraft defense
	(sensor)	sive reflecting belts of dipoles or needles, or	,	ale et eur
USE	terrain analysis	reflecting orbiting balloons to extend the range	satellite	
ootolii.	altimatry	of radio communication by returning signals to	GS	spacecraft design
	altimetry	Earth from the orbiting object, with or without amplification.	RT	. satellite design
GS	altimetry . satellite altimetry	GS telecommunication		computer aided design design
RT	altimeters	. space communication	~	Indian space program
	digital elevation models	space communication		Japanese space program
	ga. 0.0.a 1110a0i0	Spacostate communication		

microsatellites nanosatellites product development small satellite technology spacecraft structures structural design systems engineering

#### satellite doppler positioning

positioning GS

satellite doppler positioning

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

. 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

GS ground tracks

satellite ground tracks

flight paths 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

GS imagery

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 flight instruments

∞ instruments laser altimeters measuring instruments needs (data system) wildlife radiolocation

### satellite interceptors

RT ∞ interceptors

pursuit tracking

#### satellite laser ranging

(added July 2001)

DEF A technique for determining the distance 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.

SLR (ranging) UF 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

life (durability)
. satellite lifetime GS

orbit decay spacecraft reentry

satellite maneuvers

USE spacecraft maneuvers

# satellite navigation systems GS 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

(NETWORKS INCORPORATING SATELLITES)

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 teleconferencing

time division multiple access

### satellite observation

SN (OBSERVATION OF THE EARTH BY observation

. Earth observations (from space) satellite observation

RT arc clouds

Earth Resources Program

Envisat-1 satellite

EOS data and information system

EROS (satellites) ESSA satellites FIRE (climatology) Glory Mission satellite GRACE mission 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) SN

GS orbits

. spacecraft orbits

satellite orbits

. . . geosynchronous orbits

... geosynenronous orbits ... parking orbits ... stationary orbits ... twenty-four hour orbits circular orbits Earth 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

. orbit perturbation

. satellite perturbation

Discos (satellite attitude control) gravitational fields orbital mechanics Schach effect spacecraft stability tesseral harmonics

satellite power transmission television transmission remote sensors (added November 1989) Sea-viewing Wide Field-of-view power beaming satellite temperature Sensor satellite power transmission GS spacecraft temperature single event upsets satellite temperature laser power beaming Solar Backscatter UV Spectrometer microwave power beaming temperature visible infrared spin scan radiometer satellite temperature rectennas solar arrays ambient temperature satellite-borne photography solar cells radiative heat transfer GS imagery solar power satellites solar radiation shielding . photography spacecraft design . . spaceborne photography spacecraft environments ... satellite-borne photography satellite rendezvous temperature distribution RT aerial photography USE orbital rendezvous temperature measurement astronomical photography thermal environments black and white photography satellite repair DMSP satellites USE orbital servicing satellite tracking forest fire detection GS tracking (position) geographic applications program satellite rotation . spacecraft tracking infrared photography GS gyration .. satellite tracking Mars photographs . rotation . . satellite-to-satellite tracking photomapping . satellite rotation cinetheodolites photomaps flexible spacecraft Global Tracking Network rocket-borne photography spin reduction International Satellite Geodesy satellite imagery space surveillance (spaceborne) spin stabilization Experiment tumbling motion laser target designators spectral reconnaissance yo-yo devices minitrack system timber inventory optical satellite tracking program satellite solar energy conversion orbit determination satellite-borne radar energy conversion photographic tracking GS radar . satellite solar energy conversion range and range rate tracking satellite-borne radar RT ∞ conversion Samos Envisat-1 satellite microwave transmission radar detection satellite doppler positioning satellite laser ranging microwaves satellite altimetry power conditioning Space Flight Tracking and Data search radar solar cells Network surveillance radar STDN (network) sun synthetic aperture radar tracking networks tracking radar tracking stations satellite solar power stations transponder control group energy conversion satellites (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) microwave transmission Satellite Tracking and Data Acq Network microwaves USE STDN (network) power conditioning DEF Any objects, man-made or natural, that solar cells orbit celestial bodies. satellite transmission sun RT artificial satellites transmission GS natural satellites . signal transmission satellite sounding ∞ spacecraft satellite transmission GS sounding Aloha system satellite sounding satellite-to-satellite tracking binary phase shift keying code division multiplexing data transmission Advanced Microwave Sounding Unit GS tracking (position) artificial satellites . spacecraft tracking atmospheric sounding . . satellite tracking direct broadcast satellites . . satellite-to-satellite tracking ionosondes domestic satellite communications space surveillance (spaceborne) ionospheric sounding systems meteorological satellites tracking networks downlinking radiosondes Earth terminals rocket sounding saturable reactors frequency division multiplexing visible infrared spin scan radiometer UF SR (reactors) frequency reuse GS electric reactors MSAT saturable reactors satellite surfaces multiplexing magnet coils (RESTRICTED TO NATURAL SATELLITES) pulse communication magnetic amplifiers magnetic circuits magnetic cores DFF The crust and soil of natural satellites. quadrature phase shift keying GS satellite surfaces radio transmission . lunar surface single channel per carrier magnetic switching RT craters transmission power reactors extraterrestrial oceans spacecraft television icy satellites transformers TDR satellites Mercury surface television transmission natural satellites saturated hydrocarbons 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 . spacecraft television concentration (composition) satellite television . . Advanced Very High Resolution condensing telecommunication Radiometer crowding . spacecraft television . . AMPS (satellite payload) desaturation satellite television . . MISR (radiometry) penetration television systems Total Ozone Mapping Spectrometer permeating . spacecraft television AMPTE (satellites) precipitation (chemistry) . satellite television precipitation (meteorology) data products

DIAL satellite

**OPEN Project** 

∞ instruments

infrared radiometers

instrument packages

particle telescopes

unsaturation (chemistry)

saturation (chemistry)
DEF The state of a solution when it holds
the maximum equilibrium quantity of dissolved

wetting

matter at a given temperature.

color television

space probes

stereotelevision

Symphonie satellites

television cameras

direct broadcast satellites

meteorological satellites

RT chemical bonds ∞ chemistry dew point precipitation (chemistry) unsaturation (chemistry)

Saturn

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

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 RT 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

GS 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

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

GS 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

space stations

multiple docking adapters Skylab program

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 RT airlock modules

Apollo applications program

Apollo project multiple docking adapters

Skylab program space stations

Saturn (planet) GS celestial bodies

. planets . . gas giant planets

. Saturn (planet)

Calypso

Cassini mission Dione

Enceladus

**Epimetheus** Helene

Hyperion

**Iapetus** 

Janus Mimas

Pandora

Phoebe

Prometheus Rhea (astronomy)

Saturn

Telesto

Tethys Titan

Titan atmosphere Voyager 2 spacecraft

Saturn atmosphere The outer shell of gas surrounding the DEF

planet Saturn.

environments

. extraterrestrial environments . . planetary environments

... planetary atmospheres . . Saturn atmosphere atmospheric composition planetary ionospheres

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

RT RL-10-A-3 engine Saturn S-1B stage RT Arabsat liquid propellant rocket engines Arcomsat RT Saturn launch vehicles Saudi Arabia Saturn S-1C stage GS launch vehicles Space Shuttle mission 51-G Saturn launch vehicles GS rocket vehicles . . Saturn 1 launch vehicles . Saturn stages Savage aircraft Saturn 1 SA-1 launch vehicle Saturn S-1C stage USE A-2 aircraft Saturn 1 SA-10 launch vehicle RT liquid propellant rocket engines Saturn 1 SA-2 launch vehicle Saturn 1 SA-3 launch vehicle Saturn S-2 stage Savannah nuclear ship Saturn 1 SA-4 launch vehicle rocket vehicles GS surface vehicles . Saturn 1 SA-5 launch vehicle . Saturn stages . cargo ships Saturn 1 SA-6 launch vehicle . Saturn S-2 stage . . Savannah nuclear ship Saturn 1 SA-7 launch vehicle liquid propellant rocket engines RT . nuclear powered ships Saturn 1 SA-8 launch vehicle . . Savannah nuclear ship Saturn 1 SA-9 launch vehicle Saturn S-4 stage water vehicles Saturn 1B launch vehicles GS rocket vehicles . ships Saturn 2 launch vehicles . Saturn stages . . cargo ships Saturn 5 launch vehicles Saturn S-4 stage ... Savannah nuclear ship . . Saturn D launch vehicle RT liquid propellant rocket engines . . nuclear powered ships rocket vehicles ... Savannah nuclear ship Saturn S-4B stage . multistage rocket vehicles marine propulsion . . Saturn launch vehicles GS rocket vehicles nuclear propulsion Saturn stages ... Saturn 1 launch vehicles . Saturn S-4B stage Saturn 1 SA-1 launch vehicle savannahs Saturn 1 SA-10 launch vehicle liquid propellant rocket engines USE grasslands Saturn 1 SA-2 launch vehicle Saturn 1 SA-3 launch vehicle Saturn satellites Saturn 1 SA-4 launch vehicle DEF The natural satellites of the planet Sat-S-A-W devices Saturn 1 SA-5 launch vehicle USE surface acoustic wave devices GS celestial bodies Saturn 1 SA-6 launch vehicle Saturn 1 SA-7 launch vehicle . natural satellites saws . . Saturn satellites Saturn 1 SA-8 launch vehicle cutters GS . . . Calypso Saturn 1 SA-9 launch vehicle saws . . . Dione Saturn 1B launch vehicles tools Enceladus Saturn 2 launch vehicles . . . Saturn 5 launch vehicles Epimetheus . saws machine tools Helene . . Saturn D launch vehicle shears . . . Hyperion Apollo project . lapetus F-1 rocket engine . . . Janus RL-10 engines sawtooth waveforms Mimas ∞ vehicles GS waveforms Pandora . sawtooth waveforms Phoebe Saturn project pulse amplitude Prometheus GS programs pulse duration Rhea (astronomy) . NASA programs square waves . . . Telesto ... NASA space programs Tethys ... Saturn project SC-1 aircraft . projects . . . Titan UF Short SC-1 aircraft RT icy satellites .. Saturn project GS jet aircraft . space programs SC-1 aircraft Saturn stages . . NASA space programs GS rocket vehicles monoplanes Saturn project . Saturn stages SC-1 aircraft Apollo applications program . . Saturn S-1 stage research vehicles Apollo spacecraft Saturn S-1B stage . research aircraft Centaur launch vehicle . . Saturn S-1C stage .. SC-1 aircraft launch vehicles Saturn S-2 stage tailless aircraft lunar launch . . Saturn S-4 stage . SC-1 aircraft Pegasus satellites V/STOL aircraft Saturn S-4B stage RIFT (reactor in flight test) . vertical takeoff aircraft liquid propellant rocket engines . SC-1 aircraft Voyager project RT ∞ aircraft Saturn workshops GS artificial satellites Saturn rings . orbital workshops GS celestial bodies SC-5 aircraft . planetary rings . . Saturn workshops Belfast aircraft . Saturn rings ... Saturn 1 workshop Short Belfast C MK-1 aircraft gas giant planets Saturn 5 workshop Short SC-5 aircraft Jupiter rings manned spacecraft jet aircraft moonlets . orbital workshops . turboprop aircraft . . Saturn workshops natural satellites . SC-5 aircraft ... Saturn 1 workshop planetary atmospheres monoplanes . Saturn 5 workshop planetary composition . SC-5 aircraft airlock modules planetary surfaces transport aircraft planetary temperature Apollo applications program SC-5 aircraft planetology Apollo project RT ∞ aircraft multiple docking adapters planets Skylab program ∞ rings solar system space stations SC-7 aircraft Short SC-7 aircraft Uranus rings Skyvan aircraft Saudi Arabia Saturn S-1 stage Turbo-Skyvan aircraft GS nations rocket vehicles Saudi Arabia light aircraft GS . SC-7 aircraft Asia . Saturn stages Saturn S-1 stage Saudi Arabian space program monoplanes

. SC-7 aircraft

transport aircraft . SC-7 aircraft

cargo aircraft

RT ∞ aircraft

rocket vehicles GS

. Saturn stages

liquid propellant rocket engines

Saturn S-1B stage programs GS space programs

Saudi Arabian space program

. Saudi Arabian space program

846

passenger aircraft scalar magnetic charge USE magnetic charge density

scalars

Any physical quantity whose field can be described by a single numerical value at each point in space.

RT tensor analysis tensors

scale

RT

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN scale (corrosion) scale (ratio) temperature scales

scale (corrosion)

GS corrosion

scale (corrosion)

weight indicators

chemical attack degradation descaling hot corrosion pickling (metallurgy) rusting ∞ scale

∞ scaling

scale (ratio)

GS ratios scale (ratio) mapping reticles ∞ scale

scale effect

DEF Any variation in the nature of the flow and in the force coefficients associated with a change in value of the Reynolds number, i.e., caused by change in size without change in

RT ∞ effects force distribution multiscale models parameterization Reynolds number ∞ scaling

scale height DEF A measure of the relationship between density and temperature at any point in the atmosphere.

GS dimensions . height

. scale height Earth atmosphere geopotential height head (fluid mechanics)

Three-dimensional representations of objects or structures containing all parts in the same proportion as their true size.

models

scale models

aerodynamic configurations aircraft models multiscale models Reynolds equation scaling laws semispan models similarity theorem similitude law

> spacecraft models wind tunnel models

scalers

Devices that produce output pulses whenever a prescribed number of input pulses have been received.

circuits GS

. counting circuits

scalers

RT tensor analysis

∞ scaling

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

calibrating errors scale (corrosion) scale effect scaling laws

scaling laws

GS laws

scaling laws dimensional analysis dimensionless numbers scale models ∞ scaling similarity numbers wind tunnel calibration

scalloping RT

edges electron beams traveling wave tubes

Scandinavia

Denmark RT Finland Norway Sweden

scandium

chemical elements

. rare earth elements . . scandium

. . . scandium isotopes

metals

. rare earth elements

. . scandium . . . scandium isotopes

. transition metals .. scandium

... scandium isotopes

scandium 46

USE scandium isotopes

scandium compounds

GS rare earth compounds . scandium compounds

. scandium oxides RT ∞ chemical compounds ∞ Group 3B compounds ∞ metal compounds

scandium isotopes

scandium 46 chemical elements

. nuclides

. . isotopes scandium isotopes

. rare earth elements . . scandium

... scandium isotopes

metals . rare earth elements

. . scandium ... scandium isotopes

. transition metals

. . scandium

. . . scandium isotopes

scandium oxides

GS chalcogenides

. oxides

.. metal oxides

. scandium oxides rare earth compounds scandium compounds

scandium oxides

Scanner project

GS programs . projects

Scanner project

RT horizon scanners infrared scanners optical equipment

scanners

DEF Radar mechanisms incorporating such things as rotatable antennas, radiators, motor drives, or mountings for directing a searching radar beam through space and imparting target information to an indicator. Used for scanning devices.

UF scanning devices scanners GS

. horizon scanners

. infrared scanners

. ocean color scanner

. . Coastal Zone Color Scanner

. . Sea-viewing Wide Field-of-view Sensor

. optical scanners

. . flying spot scanners

. . multispectral band scanners

thematic mappers (LANDSAT)

ultrasonic scanners

conical scanning optical data processing optical equipment panoramic scanning reading scanning subreflectors

scanning

In radar, the motion of the antenna assembly when searching for targets.

GS scanning

. conical scanning

. frequency scanning . panoramic scanning

. radar scanning raster scanning

Earth resources EROS (satellites) examination monitors

multispectral band scanners rapid ballistics identification

reading scanners searching surveillance ultrasonic scanners

scanning devices USE scanners

scanning electron microscopy (added September 1992)

DEF A type of electron microscopy in which a beam of electrons, a few hundred angstroms in diameter, systematically sweeps over the specimen. The intensity of secondary electrons generated at the point of impact of the beam on the specimen is measureed and the resulting signal is fed into a cathode-ray-tube display which is scanned in synchronism with the scanning of the specimen.

SEM (microscopy)

GS microscopy

. electron microscopy

scanning electron microscopy

electron beams electron microscopes field emission ion microscopes magnetic lenses microanalysis phase contrast secondary emission

scanning laser acoustic microscope (SLAM)

USE acoustic microscopes scanning tunneling microscopy (added October 1988)

microscopy

. electron microscopy

scanning tunneling microscopy

electron microscopes electron tunneling nanofabrication

transmission electron microscopy . . . ionospheric F-scatter propagation wave interaction wave propagation scapula . . scatter propagation scattering amplitude GS anatomy ionospheric F-scatter propagation amplitudes . musculoskeletal system RT backscattering scattering amplitude . . bones forward scattering Faddeev equations . . scapula ionospheric propagation Mandelstam representation arm (anatomy) meteor trails wave scattering shoulders radio reception radio scattering scattering coefficients

DEF Measures of the attenuation due to SCAR program radio transmission USE supersonic cruise aircraft research scattering of radiation as it traverses a medium containing scattering particles.

GS coefficients radio waves scatterers (added March 1998) USE scattering DEF A joint in which the overlapping parts . scattering coefficients are tapered to form a continuous length, with no absorptivity increase in dimension at the joint. scattering attenuation coefficients DEF The process by which small particles suspended in a medium of a different index of joints (junctions) form factors scarf joints bolted joints bonded joints diffraction diffuse a portion of the incident radiation in all directions. In scattering, no energy scattering cross sections The hypothetical areas normal to the transformation results, only a change in the spatial distribution of the radiation. Used for lap joints metal joints incident radiation that would geometrically intercept the total amount of radiation actually scatscarfing scatterers. tered by a scattering particle. They are also UF scatterers defined, equivalently, as the cross section areas scarfing scattering GS of isotropic scatterers (spheres) which would . backscattering cutting GS scatter the same amount of radiation as the scarfing coherent scattering actual amount. cleaning Compton effect absorption cross sections grinding (material removal) elastic scattering baryon resonance metal cutting electron scattering Born approximation scarf joints electron runaway (plasma physics) ∞ cross sections slicing forward scattering electron runaway (plasma physics) incoherent scattering ionization cross sections scarps inelastic scattering neutron cross sections USE escarpments inverse scattering Pomeranchuk theorem ion scattering pomerons scars . nuclear scattering Ramsauer effect GS tissues (biology) . . neutron scattering Regge poles scars . . resonance scattering S matrix theory . nucleon-nucleon scattering scars (geology) stopping power . proton scattering USE erosion . radar scattering . radio scattering scattering functions SCAT . microwave scattering The intensities of scattered radiation in USE supersonic commercial air a given direction per lumen of flux incident upon . wave scattering transport the scattering material. . . acoustic scattering RT flux density . . . reverberation SCATHA satellite  $\infty$  functions . . atmospheric scattering DEF Satellite for investigating spacecraft . . . tropospheric scattering radiant flux density charging at high altitudes. A joint NASA-Air electromagnetic scattering Force venture. Used for P78-2 satellite. . . . ionospheric F-scatter propagation scattering matrix
USE **S matrix theory** P78-2 satellite light scattering Spacecraft Charging at High Altitude . . halos artificial satellites microwave scattering . scientific satellites scatterometers Mie scattering . SCATHA satellite measuring instruments . . . Rayleigh scattering . . . Raman spectra RT ∞ charging electric charge scatterometers . . . Thomson scattering . . . x ray scattering atomic collisions  $RT \, \infty \, instruments$ electromagnetic interference electrostatic charge microwave scattering microwaves QuikSCAT satellite electrostatic probes bistatic reflectivity electrostatic shielding radar circumsolar radiation high energy electrons radar scattering collision parameters scattering scatter plates (optics) collisions wave scattering Holograms of diffusing screens for deep scattering layers scattering incident light by the process of diffracdeflection diffusion scavenging GS dispersing optical equipment cleaning scatter plates (optics) electromagnetic radiation degassing encounters beam splitters deoxidizing Huygens principle coherent light purification impingement holographic interferometry holography interferometry incident radiation SCCF inelastic collisions USE Solar Cell Calibration Facility mean free path light scattering particle collisions ∞ optics pomerons scene analysis ∞ plates reflection data processing speckle holography scene analysis releasing speckle interferometry change detection scatterometers scatter propagation shock wave interaction character recognition Specifically, the long-range propagaspread reflection edge detection tion of radio signals by scattering due to index of spreading Feature Identification and Location refraction inhomogeneities in the lower atmosprinkling Exper statistical distributions image analysis sphere. transmittance GS transmission imagery imaging techniques . electromagnetic wave transmission wave degradation

wave dispersion

optical flow (image analysis)

.. scatter propagation

video landmark acquisition and tracking

#### scene generation

(added July 1998)

GS imaging techniques scene generation

simulation

scene generation

computer graphics flight simulation image reconstruction scientific visualization target simulators

#### scenedesmus

GS plants (botany)

. algae

. . scenedesmus

SCF

USE self consistent fields

#### Schach effect

DEF When a slowly or nonrotating satellite is heated on its sunward side, the photons of 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  $\infty \, \text{effects}$ orbit perturbation perturbation satellite perturbation

#### Schauder fixpoint theorem

GS theorems

Schauder fixpoint theorem

complex variables differential equations

#### schedules

#### GS schedules

. countdown

contract management precision predictions production planning

time time lag

turnaround (STS)

#### scheduling

#### scheduling GS

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

calcium compounds GS

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

schematics

USE circuit diagrams

reflectors

Schiff bases USE imines

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

psychoses

schizophrenia

RT ∞ depression irrationality mental health

# Schleicher aircraft

RT ∞ aircraft gliders

Schlieren photography
DEF 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

GS 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

RT Nusselt number Prandtl number

# Schmidt telescopes

GS telescopes

Schmidt telescopes RT reflecting telescopes

#### schools

education instructors training evaluation universities

#### schools (fish)

GS animals

. vertebrates

. . fishes . schools (fish)

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

silicon SIS (semiconductors)

work functions zinc selenides

Schottky effect

USE work functions

#### schreibersite

iron compounds

schreibersite minerals

. schreibersite nickel compounds

. schreibersite

phosphorus compounds . phosphides

schreibersite

iron meteorites meteoritic composition stony meteorites

#### Schroedinger equation

GS 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.

tuning GS

Schuler tuning

gyroscopic pendulums gyroscopic stability inertial navigation

# Schumann-Runge bands

GS spectra

. spectral bands

Schumann-Runge bands 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	marine biology	James Webb Space Telescope
RT ∝	• methodology	marine chemistry	LISA (observatory)
	3,	marine meteorology	Space Infrared Telescope Facility
Schwar	z-Christoffel transformation	∞ materials science	Spartan satellites
GS	analysis (mathematics)	∞ mathematics	Submillimeter Wave Astronomy
	. complex variables	medical science	Satellite
	. Schwarz-Christoffel	∞ metallurgy	Swift observatory
	transformation	meteorology	Tenma satellite
	functions (mathematics) . Schwarz-Christoffel	∞ molecular physics	X Ray Astrophysics Facility
	transformation	neurophysiology	XMM-Newton telescope
RT	conformal mapping	neutron physics nuclear physics	ATS
	oomormar mapping	oceanography	ATS 1
Schwar	zschild antennas	∞ optics	ATS 2
GS	antennas	∞ physical sciences	ATS 3
	Schwarzschild antennas	∞ physics	ATS 4
RT	horns	physiochemistry	ATS 5
	parabolic reflectors	physiology	ATS 6 ATS 7
	radar antennas	plasma physics	ATS 7
	radio antennas	polymer physics	Azur satellite
Schwar	zschild metric	psychophysics	Cannonball 2 satellite
RT	bimetric theories	psychophysiology	CRRES (satellite)
	coordinate transformations	radio astronomy radio physics	DIAL satellite
	escape velocity	reactor physics	Environmental Research Satellites
	event horizon	reentry physics	ERS 17
	gravitational fields	respiratory physiology	ERS 18
	ionization	seismology	Intasat satellite
	light speed	solar diameter	EXOS satellites
	orbitals	solar physics	EXOS-A satellite
	orbits	solid mechanics	EXOS-B satellite
	relativity	∞ solid state physics	EXOS-C satellite EXOS-D satellite
Schwas	smann-Wachmann comet	stellar physics	Exos-b satellite
	celestial bodies	sunrise	Explorer satellites
	. comets	sunset	Applications Explorer Satellites
	Schwassmann-Wachmann comet	taxonomy	Cosmic Background Explorer
RT	Comet Nucleus Tour	theoretical physics trigonometry	satellite
	solar system	underwater physiology	Dual Air Density Explorer
		∞ zoology	Dynamics Explorer satellites
sciatic		200.097	Dynamics Explorer 1 satellite
GS	anatomy	scientific instrument modules	Dynamics Explorer 2 satellite
	. sciatic region regions	USE <b>SIM</b>	Explorer 1 satellite
	. sciatic region	OOL SIM	Explorer 2 satellite
RT	human body	!	Explorer 3 satellite
	lumbar region	scientific satellites	Explorer 4 satellite
	musculoskeletal system	GS artificial satellites . scientific satellites	Explorer 5 satellite Explorer 6 satellite
	nerves		
		AMPTE (catallites)	Evolorer 7 satellite
	spine	AMPTE (satellites) astronomical satellites	Explorer 7 satellite Explorer 8 satellite
		astronomical satellites	Explorer 8 satellite
∞ science	spine		
∞ <b>science</b> SN	spine  (USE OF A MORE SPECIFIC TERM IS	astronomical satellites Astronomical Netherlands	Explorer 8 satellite Explorer 9 satellite
	spine	astronomical satellites Astronomical Netherlands Satellite Gamma Ray Observatory Ginga satellite	Explorer 8 satellite Explorer 9 satellite Explorer 10 satellite
	spine  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	astronomical satellites Astronomical Netherlands Satellite Gamma Ray Observatory Ginga satellite HEAO	Explorer 8 satellite Explorer 9 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite
SN	spine  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics	. astronomical satellites Astronomical Netherlands Satellite Gamma Ray Observatory Ginga satellite HEAO HEAO 1	Explorer 8 satellite Explorer 9 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 15 satellite
SN	Spine  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aerodynamics	. astronomical satellites Astronomical Netherlands Satellite Gamma Ray Observatory Ginga satellite HEAO HEAO 1 HEAO 2	Explorer 8 satellite Explorer 9 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 15 satellite Explorer 15 satellite Explorer 16 satellite
SN	spine  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aerodynamics aeronautics	astronomical satellites Astronomical Netherlands Satellite Gamma Ray Observatory Ginga satellite HEAO HEAO 1 HEAO 2 HEAO 3	Explorer 8 satellite Explorer 9 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 15 satellite Explorer 16 satellite Explorer 16 satellite Explorer 17 satellite
SN	spine  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aerodynamics aeronautics aerospace medicine	astronomical satellites Astronomical Netherlands Satellite Gamma Ray Observatory Ginga satellite HEAO HEAO 1 HEAO 2 HEAO 3 HEAO 4	Explorer 8 satellite Explorer 9 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 15 satellite Explorer 16 satellite Explorer 17 satellite Explorer 17 satellite Explorer 18 satellite
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aerodynamics aerospace medicine aerothermodynamics	. astronomical satellites . Astronomical Netherlands Satellite . Gamma Ray Observatory . Ginga satellite . HEAO . HEAO 1 . HEAO 2 . HEAO 3 . HEAO 4 . Hubble Space Telescope	Explorer 8 satellite Explorer 9 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 15 satellite Explorer 16 satellite Explorer 17 satellite Explorer 17 satellite Explorer 18 satellite Explorer 18 satellite Explorer 18 satellite Explorer 19 satellite
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aeroadynamics aeronautics aerospace medicine aerothermodynamics algebra	. astronomical satellites . Astronomical Netherlands Satellite . Gamma Ray Observatory . Ginga satellite . HEAO . HEAO 1 . HEAO 2 . HEAO 3 . HEAO 4 . Hubble Space Telescope . Infrared Astronomy Satellite	Explorer 8 satellite Explorer 9 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 15 satellite Explorer 16 satellite Explorer 17 satellite Explorer 18 satellite Explorer 18 satellite Explorer 19 satellite Explorer 19 satellite Explorer 20 satellite
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aeroacoustics aeronautics aeronautics aerospace medicine aerothermodynamics algebra anthropology	. astronomical satellites . Astronomical Netherlands Satellite . Gamma Ray Observatory . Ginga satellite . HEAO . HEAO 1 . HEAO 2 . HEAO 3 . HEAO 4 . Hubble Space Telescope . Infrared Astronomy Satellite . Infrared Space Observatory (ISO)	Explorer 8 satellite Explorer 9 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 15 satellite Explorer 16 satellite Explorer 17 satellite Explorer 18 satellite Explorer 19 satellite Explorer 19 satellite Explorer 20 satellite Explorer 20 satellite Explorer 21 satellite
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aerodynamics aeronautics aerospace medicine aerothermodynamics algebra anthropology astrodynamics	. astronomical satellites . Astronomical Netherlands Satellite . Gamma Ray Observatory . Ginga satellite . HEAO HEAO 1 . HEAO 2 HEAO 3 HEAO 4 . Hubble Space Telescope . Infrared Astronomy Satellite . Infrared Space Observatory (ISO) . IUE	Explorer 8 satellite Explorer 9 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 15 satellite Explorer 16 satellite Explorer 16 satellite Explorer 17 satellite Explorer 18 satellite Explorer 19 satellite Explorer 19 satellite Explorer 20 satellite Explorer 21 satellite Explorer 21 satellite Explorer 22 satellite
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aeroacoustics aeronautics aeronautics aerospace medicine aerothermodynamics algebra anthropology	. astronomical satellites . Astronomical Netherlands Satellite . Gamma Ray Observatory . Ginga satellite . HEAO . HEAO 1 . HEAO 2 . HEAO 3 . HEAO 4 . Hubble Space Telescope . Infrared Astronomy Satellite . Infrared Space Observatory (ISO)	Explorer 8 satellite Explorer 9 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 15 satellite Explorer 16 satellite Explorer 17 satellite Explorer 18 satellite Explorer 19 satellite Explorer 19 satellite Explorer 20 satellite Explorer 20 satellite Explorer 21 satellite
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aerodynamics aerospace medicine aerothermodynamics algebra anthropology astrodynamics astronomy	. astronomical satellites . Astronomical Netherlands Satellite . Gamma Ray Observatory . Ginga satellite . HEAO . HEAO 1 . HEAO 2 . HEAO 3 . HEAO 4 . Hubble Space Telescope . Infrared Astronomy Satellite . Infrared Space Observatory (ISO) . IUE . Large Deployable Reflector	Explorer 8 satellite Explorer 9 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 15 satellite Explorer 16 satellite Explorer 17 satellite Explorer 18 satellite Explorer 19 satellite Explorer 19 satellite Explorer 20 satellite Explorer 21 satellite Explorer 22 satellite Explorer 22 satellite Explorer 23 satellite Explorer 23 satellite
SN	Spine  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aeroacoustics aeronautics aeronautics aerospace medicine aerothermodynamics algebra anthropology astrodynamics astronomy astrophysics atmospheric physics atomic physics atomic physics	. astronomical satellites . Astronomical Netherlands Satellite . Gamma Ray Observatory . Ginga satellite . HEAO HEAO 1 HEAO 2 HEAO 3 HEAO 4 . Hubble Space Telescope . Infrared Astronomy Satellite . Infrared Space Observatory (ISO) . IUE . Large Deployable Reflector . Magellan ultraviolet astronomy satellite . OAO	Explorer 8 satellite Explorer 9 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 15 satellite Explorer 16 satellite Explorer 17 satellite Explorer 18 satellite Explorer 19 satellite Explorer 20 satellite Explorer 20 satellite Explorer 22 satellite Explorer 23 satellite Explorer 23 satellite Explorer 23 satellite Explorer 23 satellite Explorer 24 satellite Explorer 24 satellite
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aerodynamics aerospace medicine aerothermodynamics algebra anthropology astrodynamics astronomy astrophysics atmospheric physics atomic physics bioacoustics	. astronomical satellites . Astronomical Netherlands Satellite . Gamma Ray Observatory . Ginga satellite . HEAO . HEAO 1 . HEAO 2 . HEAO 3 . HEAO 4 . Hubble Space Telescope . Infrared Astronomy Satellite . Infrared Space Observatory (ISO) . IUE . Large Deployable Reflector . Magellan ultraviolet astronomy satellite . OAO . OAO 1	Explorer 8 satellite Explorer 9 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 15 satellite Explorer 16 satellite Explorer 16 satellite Explorer 17 satellite Explorer 18 satellite Explorer 19 satellite Explorer 21 satellite Explorer 20 satellite Explorer 21 satellite Explorer 23 satellite Explorer 23 satellite Explorer 24 satellite Explorer 25 satellite Explorer 25 satellite Explorer 26 satellite Explorer 26 satellite Explorer 27 satellite Explorer 27 satellite
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aerodynamics aerospace medicine aerothermodynamics algebra anthropology astrodynamics astronomy astrophysics atmospheric physics atomic physics bioacoustics bioastronautics	. astronomical satellites . Astronomical Netherlands Satellite . Gamma Ray Observatory . Ginga satellite . HEAO . HEAO 1 . HEAO 2 . HEAO 3 . HEAO 4 . Hubble Space Telescope . Infrared Astronomy Satellite . Infrared Space Observatory (ISO) . IUE . Large Deployable Reflector . Magellan ultraviolet astronomy satellite . OAO . OAO 1 . OAO 2	Explorer 8 satellite Explorer 9 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 15 satellite Explorer 16 satellite Explorer 17 satellite Explorer 18 satellite Explorer 19 satellite Explorer 20 satellite Explorer 21 satellite Explorer 22 satellite Explorer 23 satellite Explorer 24 satellite Explorer 25 satellite Explorer 25 satellite Explorer 26 satellite Explorer 26 satellite Explorer 27 satellite Explorer 28 satellite
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SN RT	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aeroacoustics aeronautics aeronautics aerothermodynamics algebra anthropology astrodynamics astronomy astrophysics atmospheric physics atomic physics bioacoustics bioadynamics biology	. astronomical satellites . Astronomical Netherlands Satellite . Gamma Ray Observatory . Ginga satellite . HEAO HEAO 1 HEAO 2 HEAO 3 HEAO 4 . Hubble Space Telescope . Infrared Astronomy Satellite . Infrared Space Observatory (ISO) . IUE . Large Deployable Reflector . Magellan ultraviolet astronomy satellite . OAO . OAO 1 . OAO 2 . OAO 3 . OSO	Explorer 8 satellite Explorer 9 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 15 satellite Explorer 16 satellite Explorer 17 satellite Explorer 18 satellite Explorer 18 satellite Explorer 19 satellite Explorer 20 satellite Explorer 21 satellite Explorer 22 satellite Explorer 23 satellite Explorer 24 satellite Explorer 25 satellite Explorer 25 satellite Explorer 26 satellite Explorer 27 satellite Explorer 28 satellite Explorer 28 satellite Explorer 29 satellite
SN RT	(USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aerodynamics aerospace medicine aerothermodynamics algebra anthropology astrodynamics astronomy astrophysics atmospheric physics atomic physics bioacoustics bioastronautics bioastronautics bioalynamics	. astronomical satellites . Astronomical Netherlands Satellite . Gamma Ray Observatory . Ginga satellite . HEAO . HEAO 1 . HEAO 2 . HEAO 3 . HEAO 4 . Hubble Space Telescope . Infrared Astronomy Satellite . Infrared Space Observatory (ISO) . IUE . Large Deployable Reflector . Magellan ultraviolet astronomy satellite . OAO . OAO 1 . OAO 2 . OAO 3 . OSO . AOSO	Explorer 8 satellite Explorer 9 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 15 satellite Explorer 16 satellite Explorer 17 satellite Explorer 18 satellite Explorer 19 satellite Explorer 20 satellite Explorer 20 satellite Explorer 21 satellite Explorer 22 satellite Explorer 23 satellite Explorer 24 satellite Explorer 25 satellite Explorer 26 satellite Explorer 27 satellite Explorer 28 satellite Explorer 29 satellite Explorer 30 satellite Explorer 31 satellite
SN RT	(USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aerodynamics aerospace medicine aerothermodynamics algebra anthropology astrodynamics astronomy astrophysics atmospheric physics atomic physics bioacoustics bioastronautics biodynamics biology biology biology biology botany	. astronomical satellites . Astronomical Netherlands Satellite . Gamma Ray Observatory . Ginga satellite . HEAO . HEAO 1 . HEAO 2 . HEAO 3 . HEAO 4 . Hubble Space Telescope . Infrared Astronomy Satellite . Infrared Space Observatory (ISO) . IUE . Large Deployable Reflector . Magellan ultraviolet astronomy satellite . OAO . OAO 1 . OAO 2 . OAO 3 . OSO . AOSO . OSO-1	Explorer 8 satellite Explorer 9 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 15 satellite Explorer 16 satellite Explorer 17 satellite Explorer 18 satellite Explorer 19 satellite Explorer 21 satellite Explorer 29 satellite Explorer 21 satellite Explorer 23 satellite Explorer 24 satellite Explorer 25 satellite Explorer 25 satellite Explorer 26 satellite Explorer 27 satellite Explorer 28 satellite Explorer 29 satellite Explorer 29 satellite Explorer 30 satellite Explorer 31 satellite Explorer 31 satellite Explorer 31 satellite Explorer 32 satellite Explorer 31 satellite Explorer 32 satellite Explorer 33 satellite
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SN RT	(USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aeroadustics aerospace medicine aerothermodynamics algebra anthropology astrodynamics astronomy astrophysics atmospheric physics atomic physics bioacoustics bioastronautics bioastronautics bioaly biophysics botany cloud physics combustion physics computational astrophysics	. astronomical satellites . Astronomical Netherlands Satellite . Gamma Ray Observatory . Ginga satellite . HEAO HEAO 1 HEAO 2 HEAO 3 HEAO 4 . Hubble Space Telescope . Infrared Astronomy Satellite . Infrared Poployable Reflector . Magellan ultraviolet astronomy satellite . OAO . OAO 1 . OAO 2 . OAO 3 . OSO . AOSO . OSO-1 . OSO-2 . OSO-3 . OSO-4	Explorer 8 satellite Explorer 9 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 15 satellite Explorer 16 satellite Explorer 17 satellite Explorer 18 satellite Explorer 18 satellite Explorer 19 satellite Explorer 20 satellite Explorer 20 satellite Explorer 21 satellite Explorer 23 satellite Explorer 24 satellite Explorer 25 satellite Explorer 26 satellite Explorer 27 satellite Explorer 28 satellite Explorer 28 satellite Explorer 29 satellite Explorer 30 satellite Explorer 30 satellite Explorer 31 satellite Explorer 33 satellite Explorer 34 satellite Explorer 34 satellite Explorer 34 satellite Explorer 35 satellite Explorer 34 satellite Explorer 35 satellite
SN RT	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aeroacoustics aeroacoustics aerohautics aerohautics aerohautics aerohautics aerohautics aerohautics aerohautics aerohautics aerohautics algebra anthropology astrodynamics astronomy astrophysics atmospheric physics atomic physics bioacoustics bioacoustics bioacoustics biology biophysics botany cloud physics combustion physics	. astronomical satellites . Astronomical Netherlands Satellite . Gamma Ray Observatory . Ginga satellite . HEAO . HEAO 1 . HEAO 2 . HEAO 3 . HEAO 4 . Hubble Space Telescope . Infrared Astronomy Satellite . Infrared Space Observatory (ISO) . IUE . Large Deployable Reflector . Magellan ultraviolet astronomy satellite . OAO . OAO 1 . OAO 2 . OAO 3 . OSO . AOSO . OSO-1 . OSO-2 . OSO-3	Explorer 8 satellite Explorer 9 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 15 satellite Explorer 16 satellite Explorer 17 satellite Explorer 18 satellite Explorer 19 satellite Explorer 20 satellite Explorer 20 satellite Explorer 21 satellite Explorer 23 satellite Explorer 24 satellite Explorer 25 satellite Explorer 25 satellite Explorer 25 satellite Explorer 26 satellite Explorer 27 satellite Explorer 28 satellite Explorer 29 satellite Explorer 30 satellite Explorer 30 satellite Explorer 31 satellite Explorer 32 satellite Explorer 33 satellite Explorer 34 satellite
SN RT	(USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aerodynamics aerospace medicine aerothermodynamics algebra anthropology astrodynamics astronomy astrophysics atmospheric physics atomic physics bioacoustics bioastronautics biodynamics biology biology biology combustion physics combustion physics combustion physics computational astrophysics electrophysics electrophysics electrophysics	. astronomical satellites . Astronomical Netherlands Satellite . Gamma Ray Observatory . Ginga satellite . HEAO . HEAO 1 . HEAO 2 . HEAO 3 . HEAO 4 . Hubble Space Telescope . Infrared Astronomy Satellite . Infrared Space Observatory (ISO) . IUE . Large Deployable Reflector . Magellan ultraviolet astronomy satellite . OAO . OAO 1 . OAO 2 . OAO 3 . OSO . AOSO . OSO-1 . OSO-2 . OSO-3 . OSO-4 . OSO-5	Explorer 8 satellite Explorer 9 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 15 satellite Explorer 16 satellite Explorer 17 satellite Explorer 18 satellite Explorer 18 satellite Explorer 19 satellite Explorer 21 satellite Explorer 21 satellite Explorer 22 satellite Explorer 23 satellite Explorer 24 satellite Explorer 25 satellite Explorer 25 satellite Explorer 26 satellite Explorer 27 satellite Explorer 28 satellite Explorer 29 satellite Explorer 30 satellite Explorer 30 satellite Explorer 31 satellite Explorer 33 satellite Explorer 33 satellite Explorer 34 satellite Explorer 35 satellite Explorer 35 satellite Explorer 34 satellite Explorer 35 satellite Explorer 35 satellite Explorer 35 satellite Explorer 36 satellite Explorer 36 satellite Explorer 36 satellite
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SN RT	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aerodynamics aerospace medicine aerothermodynamics algebra anthropology astrodynamics astronomy astrophysics atomic physics bioacoustics bioacoustics bioacoustics bioastronautics biodynamics complete biology biophysics botany cloud physics computational astrophysics electrophysics electrophysics electrophysics electrophysics electrophysics electrophysics electrophysics electrophysics electrophysics entomology	. astronomical satellites . Astronomical Netherlands Satellite . Gamma Ray Observatory . Ginga satellite . HEAO . HEAO 1 . HEAO 2 . HEAO 3 . HEAO 4 . Hubble Space Telescope . Infrared Astronomy Satellite . Infrared Space Observatory (ISO) . IUE . Large Deployable Reflector . Magellan ultraviolet astronomy satellite . OAO . OAO 1 . OAO 2 . OAO 3 . OSO . AOSO . OSO-1 . OSO-2 . OSO-3 . OSO-4 . OSO-5 . OSO-6 . OSO-7 . OSO-8 . OSO-6	Explorer 8 satellite Explorer 9 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 15 satellite Explorer 16 satellite Explorer 17 satellite Explorer 18 satellite Explorer 19 satellite Explorer 19 satellite Explorer 20 satellite Explorer 21 satellite Explorer 23 satellite Explorer 24 satellite Explorer 25 satellite Explorer 25 satellite Explorer 26 satellite Explorer 27 satellite Explorer 28 satellite Explorer 30 satellite Explorer 33 satellite Explorer 39 satellite Explorer 39 satellite Explorer 31 satellite Explorer 31 satellite Explorer 33 satellite Explorer 33 satellite Explorer 34 satellite Explorer 35 satellite Explorer 36 satellite Explorer 37 satellite Explorer 36 satellite Explorer 37 satellite
SN RT	(USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aerodynamics aerospace medicine aerothermodynamics algebra anthropology astrodynamics astronomy astrophysics atmospheric physics atomic physics bioacoustics bioastronautics biodynamics biology biology strodynamics computational strophysics electrophysics computational astrophysics computational astrophysics electrophysics electrophysics electrophysics gluid dynamics fluid mechanics geology	. astronomical satellites . Astronomical Netherlands Satellite . Gamma Ray Observatory . Ginga satellite . HEAO . HEAO 1 . HEAO 2 . HEAO 3 . HEAO 4 . Hubble Space Telescope . Infrared Astronomy Satellite . Infrared Space Observatory (ISO) . IUE . Large Deployable Reflector . Magellan ultraviolet astronomy satellite . OAO . OAO 1 . OAO 2 . OAO 3 . OSO . AOSO . OSO-1 . OSO-2 . OSO-3 . OSO-4 . OSO-5 . OSO-6 . OSO-7 . OSO-8 . OSO-C . Quasat	Explorer 8 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 15 satellite Explorer 15 satellite Explorer 16 satellite Explorer 17 satellite Explorer 18 satellite Explorer 19 satellite Explorer 21 satellite Explorer 29 satellite Explorer 21 satellite Explorer 22 satellite Explorer 23 satellite Explorer 24 satellite Explorer 25 satellite Explorer 26 satellite Explorer 27 satellite Explorer 28 satellite Explorer 29 satellite Explorer 30 satellite Explorer 30 satellite Explorer 30 satellite Explorer 30 satellite Explorer 31 satellite Explorer 33 satellite Explorer 34 satellite Explorer 35 satellite Explorer 36 satellite Explorer 37 satellite Explorer 37 satellite Explorer 38 satellite Explorer 39 satellite
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SN RT	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aeroacoustics aeroacoustics aeroacoustics aerospace medicine aerothermodynamics algebra anthropology astrodynamics astronomy astrophysics atomic physics bioacoustics bioacoustics bioastronautics biodynamics biology biophysics botany cloud physics combustion physics computational astrophysics electrophysics electrophysics electrophysics gelogy entomology fluid dynamics fluid mechanics geology geometry geophysics	astronomical satellites Astronomical Netherlands Satellite Gamma Ray Observatory Ginga satellite HEAO HEAO HEAO 1 HEAO 2 HEAO 3 HEAO 4 Hubble Space Telescope Infrared Astronomy Satellite Infrared Poployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO OSO-1 OSO-5 OSO-6 OSO-7 OSO-8 OSO-7 OSO-8 OSO-6 OSO-7 OSO-8 OSO-C Quasat SAS Explorer 53 satellite	Explorer 8 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 14 satellite Explorer 15 satellite Explorer 16 satellite Explorer 17 satellite Explorer 18 satellite Explorer 18 satellite Explorer 19 satellite Explorer 20 satellite Explorer 20 satellite Explorer 21 satellite Explorer 23 satellite Explorer 24 satellite Explorer 25 satellite Explorer 25 satellite Explorer 26 satellite Explorer 27 satellite Explorer 28 satellite Explorer 29 satellite Explorer 31 satellite Explorer 33 satellite Explorer 30 satellite Explorer 33 satellite Explorer 33 satellite Explorer 34 satellite Explorer 35 satellite Explorer 36 satellite Explorer 37 satellite Explorer 38 satellite Explorer 39 satellite Explorer 41 satellite Explorer 41 satellite Explorer 43 satellite Explorer 43 satellite Explorer 44 satellite Explorer 43 satellite Explorer 44 satellite Explorer 44 satellite Explorer 43 satellite
SN RT	(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aerodynamics aerospace medicine aerothermodynamics algebra anthropology astrodynamics astronomy astrophysics atmospheric physics bioacoustics bioacoustics bioacoustics bioacoustics bioacoustics bioacoustics bioacoustics bioacoustics bioacoustics computational astrophysics computational astrophysics electrophysics electrophysics electrophysics electrophysics electrophysics electrophysics gelogy geometry geophysics health physics	astronomical satellites Astronomical Netherlands Satellite Gamma Ray Observatory Ginga satellite HEAO HEAO HEAO 1 HEAO 2 HEAO 3 HEAO 4 Hubble Space Telescope Infrared Astronomy Satellite Infrared Peployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO OSO-1 OSO-2 OSO-3 OSO-5 OSO-6 OSO-7 OSO-8 OSO-C Quasat SAS Explorer 53 satellite	Explorer 8 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 14 satellite Explorer 15 satellite Explorer 16 satellite Explorer 17 satellite Explorer 18 satellite Explorer 18 satellite Explorer 19 satellite Explorer 20 satellite Explorer 20 satellite Explorer 21 satellite Explorer 22 satellite Explorer 23 satellite Explorer 24 satellite Explorer 25 satellite Explorer 26 satellite Explorer 27 satellite Explorer 28 satellite Explorer 29 satellite Explorer 31 satellite Explorer 33 satellite Explorer 33 satellite Explorer 34 satellite Explorer 35 satellite Explorer 34 satellite Explorer 35 satellite Explorer 36 satellite Explorer 37 satellite Explorer 38 satellite Explorer 39 satellite Explorer 39 satellite Explorer 39 satellite Explorer 40 satellite Explorer 41 satellite Explorer 43 satellite Explorer 43 satellite Explorer 44 satellite Explorer 43 satellite Explorer 43 satellite Explorer 44 satellite Explorer 44 satellite Explorer 45 satellite Explorer 45 satellite Explorer 45 satellite
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SN RT	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aerodynamics aerospace medicine aerothermodynamics algebra anthropology astrodynamics astronomy astrophysics atmospheric physics bioacoustics bioacoust	astronomical satellites Astronomical Netherlands Satellite Gamma Ray Observatory Ginga satellite HEAO HEAO 1 HEAO 2 HEAO 3 HEAO 4 Hubble Space Telescope Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO OSO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-6 OSO-7 OSO-8 OSO-7 OSO-8 OSO-C Quasat SAS Explorer 53 satellite SAS-2 SAS-3	Explorer 8 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 15 satellite Explorer 15 satellite Explorer 16 satellite Explorer 17 satellite Explorer 18 satellite Explorer 19 satellite Explorer 20 satellite Explorer 21 satellite Explorer 22 satellite Explorer 23 satellite Explorer 24 satellite Explorer 25 satellite Explorer 26 satellite Explorer 27 satellite Explorer 28 satellite Explorer 29 satellite Explorer 30 satellite Explorer 31 satellite Explorer 33 satellite Explorer 35 satellite Explorer 36 satellite Explorer 37 satellite Explorer 38 satellite Explorer 39 satellite Explorer 40 satellite Explorer 44 satellite Explorer 44 satellite Explorer 45 satellite Explorer 47 satellite
SN RT	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aerodynamics aerospace medicine aerothermodynamics algebra anthropology astrodynamics astronomy astrophysics atomic physics bioacoustics bioacoustics bioacoustics bioastronautics biology biophysics biology biophysics combustion physics computational astrophysics electrophysics electrophysics electrophysiology entomology fluid dynamics fluid mechanics geology geometry geophysics healith physics helioseismology hydromechanics	astronomical satellites Astronomical Netherlands Satellite Gamma Ray Observatory Ginga satellite HEAO HEAO HEAO 1 HEAO 2 HEAO 3 HEAO 4 Hubble Space Telescope Infrared Astronomy Satellite Infrared Popolyable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO OSO-1 OSO-2 OSO-3 OSO-5 OSO-6 OSO-7 OSO-8 OSO-7 OSO-8 COSO-7 OSO-8 COSO-C Quasat SAS Explorer 53 satellite SAS-1 SAS-2 SAS-3 Constellation-X	Explorer 8 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 14 satellite Explorer 15 satellite Explorer 16 satellite Explorer 17 satellite Explorer 18 satellite Explorer 18 satellite Explorer 19 satellite Explorer 20 satellite Explorer 21 satellite Explorer 23 satellite Explorer 24 satellite Explorer 25 satellite Explorer 25 satellite Explorer 26 satellite Explorer 27 satellite Explorer 28 satellite Explorer 29 satellite Explorer 33 satellite Explorer 33 satellite Explorer 35 satellite Explorer 36 satellite Explorer 37 satellite Explorer 38 satellite Explorer 39 satellite Explorer 37 satellite Explorer 38 satellite Explorer 39 satellite Explorer 38 satellite Explorer 40 satellite Explorer 41 satellite Explorer 41 satellite Explorer 43 satellite Explorer 44 satellite Explorer 45 satellite Explorer 47 satellite Explorer 48 satellite Explorer 48 satellite Explorer 48 satellite
SN RT	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) acoustics aeroacoustics aerodynamics aerospace medicine aerothermodynamics algebra anthropology astrodynamics astronomy astrophysics atmospheric physics bioacoustics bioacoust	astronomical satellites Astronomical Netherlands Satellite Gamma Ray Observatory Ginga satellite HEAO HEAO 1 HEAO 2 HEAO 3 HEAO 4 Hubble Space Telescope Infrared Astronomy Satellite Infrared Space Observatory (ISO) IUE Large Deployable Reflector Magellan ultraviolet astronomy satellite OAO OAO 1 OAO 2 OAO 3 OSO AOSO OSO-1 OSO-2 OSO-3 OSO-4 OSO-5 OSO-6 OSO-7 OSO-8 OSO-7 OSO-8 OSO-C Quasat SAS Explorer 53 satellite SAS-2 SAS-3	Explorer 8 satellite Explorer 10 satellite Explorer 11 satellite Explorer 12 satellite Explorer 14 satellite Explorer 15 satellite Explorer 15 satellite Explorer 16 satellite Explorer 17 satellite Explorer 18 satellite Explorer 19 satellite Explorer 20 satellite Explorer 21 satellite Explorer 22 satellite Explorer 23 satellite Explorer 24 satellite Explorer 25 satellite Explorer 26 satellite Explorer 27 satellite Explorer 28 satellite Explorer 29 satellite Explorer 30 satellite Explorer 31 satellite Explorer 33 satellite Explorer 35 satellite Explorer 36 satellite Explorer 37 satellite Explorer 38 satellite Explorer 39 satellite Explorer 40 satellite Explorer 44 satellite Explorer 44 satellite Explorer 45 satellite Explorer 47 satellite

	Explorer 51 satellite	software development tools	scintillating fibers
	Explorer 52 satellite		
	Explorer 53 satellite		scintillation fibers
	Explorer 54 satellite	scientists	USE scintillating fibers
	Explorer 55 satellite	GS manpower	scintillators
	Extreme Ultraviolet Explorer	. scientists	USE scintillation counters
	satellite Far UV Spectroscopic Explorer	personnel	
	IMP	. scientists	scintillometers
	International Magnetospheric	RT awards	USE scintillation counters
	Explorer	engineers	
	International Sun Earth Explorers		scission
	International Sun Earth Explorer		USE cleavage
	1	Scimitar aircraft	scoops
	International Sun Earth Explorer	UF Vickers Scimitar aircraft	RT air intakes
	2	GS attack aircraft	conveyors
	International Sun Earth Explorer	. fighter aircraft	ducts
	3	Scimitar aircraft	intake systems
	Advanced Composition Explorer IMAGE satellite	BAC aircraft	nose inlets
	Micrometeoroid Explorer satellites	. Scimitar aircraft	side inlets
	Radio Astronomy Explorer	jet aircraft	∞ water intakes
	satellite	. Scimitar aircraft	
	Solar Mesosphere Explorer	monoplanes	scopolamine
	Submillimeter Wave Astronomy	. Scimitar aircraft	USE <b>hyoscine</b>
	Satellite	RT ∞ aircraft	SCORE omnirange
	Transition Region and Coronal		USE self calibrating omnirange
	Explorer		OOL Sen canbrating chiminange
	Uhuru satellite	scintillating fibers	SCORE satellite
	X Ray Timing Explorer	(added December 1992)	GS artificial satellites
	Geopotential Research Mission	UF scintillation fibers	. SCORE satellite
	Hawkeye satellites	GS fibers	
	Long Duration Exposure Facility	. optical fibers	scoring
	LZEEBE satellite MagSat satellites	scintillating fibers	UF scribing
	MagSat satellites	optical materials	RT abrasion
	Magsat A satellite	. optical fibers	defects
	MagSat B satellite	scintillating fibers	friction
	ORBIS	waveguides	pitting
	ORBIS CAL satellite	. optical waveguides	wear
	OV-1 satellites	optical fibers	Scorpio constellation
	OV-2 satellites	scintillating fibers	USE Scorpius constellation
	OV-3 satellites	RT calorimeters	OOL OCOIPIUS CONSTENATION
	OV-4 satellites	cosmic rays	Scorpius constellation
	OV-5 satellites	fiber optics gamma ray spectrometers	UF Scorpio constellation
	SCATHA satellite	gamma ray telescopes	GS constellations
	small scientific satellites	gamma rays	. Scorpius constellation
	Submillimeter Wave Astronomy	hodoscopes	RT zodiac
	Satellite	photomultiplier tubes	
	Transition Region and Coronal Explorer	radiation counters	Scotchlite (trademark)
	UK satellites	scintillation	RT membrane structures
	Ariel 4 satellite	scintillation counters	refractory materials
	Ariel 5 satellite		Scotland
	Miranda satellite		GS nations
	UK 4 satellite	scintillation	
	Aqua spacecraft	DEF Generic term for rapid variations in	
	A.usa anagaraft		. United Kingdom Scotland
	Aura spacecraft	apparent position, brightness, or color of a dis-	Scotland
	CALIPSO (Pathfinder satellite)	tant luminous object viewed through the atmo-	
	CALIPSO (Pathfinder satellite) CloudSat	tant luminous object viewed through the atmo- sphere. A flash of light produced in a phosphor	<b>Scotland</b> RT Europe
	CALIPSO (Pathfinder satellite) CloudSat Glory Mission satellite	tant luminous object viewed through the atmo- sphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid	Scotland
	CALIPSO (Pathfinder satellite) CloudSat Glory Mission satellite lce, Cloud and Land Elevation	tant luminous object viewed through the atmo- sphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its	Scotland RT Europe  Scout helicopter USE P-531 helicopter
	CALIPSO (Pathfinder satellite)     CloudSat     Glory Mission satellite     Ice, Cloud and Land Elevation     Satellite	tant luminous object viewed through the atmo- sphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its mean position.	Scotland RT Europe  Scout helicopter USE P-531 helicopter  Scout launch vehicle
	CALIPSO (Pathfinder satellite)     CloudSat     Glory Mission satellite     Ice, Cloud and Land Elevation     Satellite     Polar/GGS spacecraft	tant luminous object viewed through the atmosphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its mean position.  RT glint	Scout helicopter USE P-531 helicopter Scout launch vehicle GS launch vehicles
	CALIPSO (Pathfinder satellite)     CloudSat     Glory Mission satellite     Ice, Cloud and Land Elevation Satellite     Polar/GGS spacecraft     QuikSCAT satellite	tant luminous object viewed through the atmo- sphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its mean position. RT glint phosphorescence	Scotland RT Europe  Scout helicopter USE P-531 helicopter  Scout launch vehicle GS launch vehicles Scout launch vehicle
	CALIPSO (Pathfinder satellite)     CloudSat     Glory Mission satellite     Ice, Cloud and Land Elevation     Satellite     Polar/GGS spacecraft     QuikSCAT satellite     TRMM satellite	tant luminous object viewed through the atmosphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its mean position.  RT glint  phosphorescence scintillating fibers	Scotland RT Europe  Scout helicopter USE P-531 helicopter  Scout launch vehicle GS launch vehicles Scout launch vehicle rocket vehicles
	CALIPSO (Pathfinder satellite)     CloudSat     Glory Mission satellite     lee, Cloud and Land Elevation Satellite     Polar/GGS spacecraft     QuikSCAT satellite     TRIMM satellite     Upper Atmosphere Research	tant luminous object viewed through the atmo- sphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its mean position. RT glint phosphorescence	Scotland RT Europe  Scout helicopter USE P-531 helicopter  Scout launch vehicle GS launch vehicles . Scout launch vehicle rocket vehicles . multistage rocket vehicles
	CALIPSO (Pathfinder satellite)     CloudSat     Glory Mission satellite     Ice, Cloud and Land Elevation     Satellite     Polar/GGS spacecraft     QuikSCAT satellite     TRMM satellite	tant luminous object viewed through the atmosphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its mean position.  RT glint  phosphorescence scintillating fibers	Scotland RT Europe  Scout helicopter USE P-531 helicopter  Scout launch vehicle GS launch vehicles . Scout launch vehicle rocket vehicles . multistage rocket vehicles . Scout launch vehicle
RT	CALIPSO (Pathfinder satellite)     CloudSat     Glory Mission satellite     Ice, Cloud and Land Elevation Satellite     Polar/GGS spacecraft     QuikSCAT satellite     TRMM satellite     Upper Atmosphere Research Satellite (UARS)	tant luminous object viewed through the atmosphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its mean position.  RT glint  phosphorescence scintillating fibers seeing (astronomy)	Scotland RT Europe  Scout helicopter USE P-531 helicopter  Scout launch vehicle GS launch vehicles Scout launch vehicle rocket vehicles multistage rocket vehicles Scout launch vehicle RT Algol engine
RT	CALIPSO (Pathfinder satellite)     CloudSat     Glory Mission satellite     Ice, Cloud and Land Elevation Satellite     Polar/GGS spacecraft     QuikSCAT satellite     TRMM satellite     Upper Atmosphere Research Satellite (UARS)     Wind/GGS spacecraft	tant luminous object viewed through the atmosphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its mean position.  RT glint phosphorescence scintillating fibers seeing (astronomy)	Scotland RT Europe  Scout helicopter USE P-531 helicopter  Scout launch vehicle GS launch vehicles Scout launch vehicle rocket vehicles multistage rocket vehicles Scout launch vehicle RT Algol engine Explorer 9 satellite
RT	CALIPSO (Pathfinder satellite) . CloudSat . Glory Mission satellite . Ice, Cloud and Land Elevation Satellite . Polar/GGS spacecraft . QuikSCAT satellite . TRMM satellite . Upper Atmosphere Research Satellite (UARS) . Wind/GGS spacecraft Canadian space program Cluster Mission EOS data and information system	tant luminous object viewed through the atmosphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its mean position.  RT glint phosphorescence scintillating fibers seeing (astronomy)  scintillation counters  DEF The combinations of phosphor, photo-	Scotland RT Europe  Scout helicopter USE P-531 helicopter  Scout launch vehicle GS launch vehicles . Scout launch vehicle rocket vehicles . multistage rocket vehicles Scout launch vehicle RT Algol engine Explorer 9 satellite Explorer 16 satellite
RT	CALIPSO (Pathfinder satellite)     CloudSat     Glory Mission satellite     Ice, Cloud and Land Elevation Satellite     Polar/GGS spacecraft     QuikSCAT satellite     TRMM satellite     Upper Atmosphere Research Satellite (UARS)     Wind/GGS spacecraft Canadian space program Cluster Mission EOS data and information system ESRO 4 satellite	tant luminous object viewed through the atmosphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its mean position.  RT glint phosphorescence scintillating fibers seeing (astronomy)	Scotland RT Europe  Scout helicopter USE P-531 helicopter  Scout launch vehicle GS launch vehicles Scout launch vehicle rocket vehicles multistage rocket vehicles Scout launch vehicle RT Algol engine Explorer 9 satellite
RT	CALIPSO (Pathfinder satellite)     CloudSat     Glory Mission satellite     Ice, Cloud and Land Elevation Satellite     Polar/GGS spacecraft     QuikSCAT satellite     TRMM satellite     Upper Atmosphere Research Satellite (UARS)     Wind/GGS spacecraft Canadian space program Cluster Mission EOS data and information system ESRO 4 satellite SOHO Mission	tant luminous object viewed through the atmosphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its mean position.  RT glint  phosphorescence scintillating fibers seeing (astronomy)  scintillation counters  DEF The combinations of phosphor, photomultiplier tube, and associated circuits for count-	Scotland RT Europe  Scout helicopter USE P-531 helicopter  Scout launch vehicle GS launch vehicles . Scout launch vehicle rocket vehicles . multistage rocket vehicles Scout launch vehicle RT Algol engine Explorer 9 satellite Explorer 16 satellite Explorer 19 satellite
RT	CALIPSO (Pathfinder satellite)     CloudSat     Glory Mission satellite     Ice, Cloud and Land Elevation Satellite     Polar/GGS spacecraft     QuikSCAT satellite     TRMM satellite     Upper Atmosphere Research Satellite (UARS)     Wind/GGS spacecraft Canadian space program Cluster Mission EOS data and information system ESRO 4 satellite	tant luminous object viewed through the atmosphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its mean position.  RT glint phosphorescence scintillating fibers seeing (astronomy)  scintillation counters  DEF The combinations of phosphor, photomultiplier tube, and associated circuits for counting scintillations. Used for scintillators and scintillometers.  UF scintillators	Scotland RT Europe  Scout helicopter USE P-531 helicopter  Scout launch vehicle GS launch vehicles Scout launch vehicle rocket vehicles Multistage rocket vehicles Scout launch vehicle RT Algol engine Explorer 9 satellite Explorer 16 satellite Explorer 19 satellite Explorer 20 satellite Explorer 22 satellite Explorer 23 satellite Explorer 23 satellite
RT	CALIPSO (Pathfinder satellite)     CloudSat     Glory Mission satellite     Ice, Cloud and Land Elevation Satellite     Polar/GGS spacecraft     QuikSCAT satellite     TRMM satellite     Upper Atmosphere Research Satellite (UARS)     Wind/GGS spacecraft Canadian space program Cluster Mission EOS data and information system ESRO 4 satellite SOHO Mission	tant luminous object viewed through the atmosphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its mean position.  RT glint phosphorescence scintillating fibers seeing (astronomy)  scintillation counters  DEF The combinations of phosphor, photomultiplier tube, and associated circuits for counting scintillations. Used for scintillators and scintillometers.  UF scintillators scintillometers	Scotland RT Europe  Scout helicopter USE P-531 helicopter  Scout launch vehicle GS launch vehicles . Scout launch vehicle rocket vehicles . multistage rocket vehicles Scout launch vehicle RT Algol engine Explorer 9 satellite Explorer 16 satellite Explorer 19 satellite Explorer 20 satellite Explorer 22 satellite Explorer 23 satellite Explorer 23 satellite Explorer 24 satellite
	CALIPSO (Pathfinder satellite)     CloudSat     Glory Mission satellite     Ice, Cloud and Land Elevation Satellite     Polar/GGS spacecraft     QuikSCAT satellite     TRMM satellite     Upper Atmosphere Research Satellite (UARS)     Wind/GGS spacecraft Canadian space program Cluster Mission EOS data and information system ESRO 4 satellite SOHO Mission technology feasibility spacecraft	tant luminous object viewed through the atmosphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its mean position.  RT glint phosphorescence scintillating fibers seeing (astronomy)  scintillation counters  DEF The combinations of phosphor, photomultiplier tube, and associated circuits for counting scintillations. Used for scintillators and scintillometers.  UF scintillators scintillators scintillometers  GS measuring instruments	Scotland RT Europe  Scout helicopter USE P-531 helicopter  Scout launch vehicle GS launch vehicles Scout launch vehicles Ocket vehicles Multistage rocket vehicles Multistage rocket vehicles Multistage rocket vehicles Scout launch vehicle RT Algol engine Explorer 9 satellite Explorer 16 satellite Explorer 19 satellite Explorer 20 satellite Explorer 23 satellite Explorer 23 satellite Explorer 24 satellite Explorer 25 satellite Explorer 25 satellite
scientifi	. CALIPSO (Pathfinder satellite) . CloudSat . Glory Mission satellite . Ice, Cloud and Land Elevation Satellite . Polar/GGS spacecraft . QuikSCAT satellite . TRMM satellite . Upper Atmosphere Research Satellite (UARS) . Wind/GGS spacecraft Canadian space program Cluster Mission EOS data and information system ESRO 4 satellite SOHO Mission technology feasibility spacecraft	tant luminous object viewed through the atmosphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its mean position.  RT glint phosphorescence scintillating fibers seeing (astronomy)  scintillation counters  DEF The combinations of phosphor, photomultiplier tube, and associated circuits for counting scintillations. Used for scintillators and scintillometers.  UF scintillators scintillators scintillometers  GS measuring instruments counters	Scotland RT Europe  Scout helicopter USE P-531 helicopter  Scout launch vehicle GS launch vehicles Scout launch vehicle rocket vehicles Multistage rocket vehicles Scout launch vehicle RT Algol engine Explorer 9 satellite Explorer 19 satellite Explorer 19 satellite Explorer 20 satellite Explorer 23 satellite Explorer 23 satellite Explorer 24 satellite Explorer 25 satellite Explorer 27 satellite Explorer 27 satellite
scientifi (adde	. CALIPSO (Pathfinder satellite) . CloudSat . Glory Mission satellite . Ice, Cloud and Land Elevation     Satellite . Polar/GGS spacecraft . QuikSCAT satellite . TRMM satellite . Upper Atmosphere Research     Satellite (UARS) . Wind/GGS spacecraft Canadian space program Cluster Mission EOS data and information system ESRO 4 satellite SOHO Mission technology feasibility spacecraft	tant luminous object viewed through the atmosphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its mean position.  RT glint phosphorescence scintillating fibers seeing (astronomy)  scintillation counters  DEF The combinations of phosphor, photomultiplier tube, and associated circuits for counting scintillations. Used for scintillators and scintillometers.  UF scintillators scintillometers  GS measuring instruments . counters . radiation counters	Scotland RT Europe  Scout helicopter USE P-531 helicopter  Scout launch vehicle GS launch vehicles Scout launch vehicle rocket vehicles Scout launch vehicle RT Algol engine Explorer 9 satellite Explorer 19 satellite Explorer 19 satellite Explorer 20 satellite Explorer 22 satellite Explorer 23 satellite Explorer 24 satellite Explorer 25 satellite Explorer 25 satellite Explorer 27 satellite Explorer 27 satellite Explorer 27 satellite Explorer 30 satellite
scientifi (adde UF	. CALIPSO (Pathfinder satellite) . CloudSat . Glory Mission satellite . Ice, Cloud and Land Elevation Satellite . Polar/GGS spacecraft . QuikSCAT satellite . TRMM satellite . Upper Atmosphere Research Satellite (UARS) . Wind/GGS spacecraft Canadian space program Cluster Mission EOS data and information system ESRO 4 satellite SOHO Mission technology feasibility spacecraft	tant luminous object viewed through the atmosphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its mean position.  RT glint phosphorescence scintillating fibers seeing (astronomy)  scintillation counters  DEF The combinations of phosphor, photomultiplier tube, and associated circuits for counting scintillations. Used for scintillators and scintillometers.  UF scintillators scintillators scintillometers  GS measuring instruments counters radiation counters scintillation counters scintillation counters	Scout helicopter USE P-531 helicopter USE P-531 helicopter  Scout launch vehicle GS launch vehicles . Scout launch vehicle rocket vehicles . multistage rocket vehicles . Scout launch vehicle RT Algol engine Explorer 9 satellite Explorer 16 satellite Explorer 19 satellite Explorer 20 satellite Explorer 23 satellite Explorer 23 satellite Explorer 24 satellite Explorer 25 satellite Explorer 27 satellite Explorer 27 satellite Explorer 30 satellite Explorer 30 satellite Explorer 37 satellite
scientifi (adde	. CALIPSO (Pathfinder satellite) . CloudSat . Glory Mission satellite . Ice, Cloud and Land Elevation Satellite . Polar/GGS spacecraft . QuikSCAT satellite . TRMM satellite . Upper Atmosphere Research Satellite (UARS) . Wind/GGS spacecraft Canadian space program Cluster Mission EOS data and information system ESRO 4 satellite SOHO Mission technology feasibility spacecraft	tant luminous object viewed through the atmosphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its mean position.  RT glint phosphorescence scintillating fibers seeing (astronomy)  scintillation counters  DEF The combinations of phosphor, photomultiplier tube, and associated circuits for counting scintillations. Used for scintillators and scintillometers.  UF scintillators scintillators scintillometers  GS measuring instruments . counters . radiation counters . radiation counters . radiation measuring instruments	Scout helicopter USE P-531 helicopter USE P-531 helicopter  Scout launch vehicle GS launch vehicles . Scout launch vehicle rocket vehicles . multistage rocket vehicles . Scout launch vehicle RT Algol engine Explorer 9 satellite Explorer 16 satellite Explorer 19 satellite Explorer 20 satellite Explorer 22 satellite Explorer 23 satellite Explorer 24 satellite Explorer 25 satellite Explorer 27 satellite Explorer 37 satellite Explorer 39 satellite Explorer 39 satellite
scientifi (adde UF	CALIPSO (Pathfinder satellite) CloudSat Glory Mission satellite Ice, Cloud and Land Elevation Satellite Polar/GGS spacecraft QuikSCAT satellite TRMM satellite Upper Atmosphere Research Satellite (UARS) Wind/GGS spacecraft Canadian space program Cluster Mission EOS data and information system ESRO 4 satellite SOHO Mission technology feasibility spacecraft	tant luminous object viewed through the atmosphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its mean position.  RT glint phosphorescence scintillating fibers seeing (astronomy)  scintillation counters  DEF The combinations of phosphor, photomultiplier tube, and associated circuits for counting scintillations. Used for scintillators and scintillometers.  UF scintillators scintillators scintillometers  GS measuring instruments . counters . radiation counters . radiation counters . radiation measuring instruments . radiation counters radiation counters radiation counters	Scotland RT Europe  Scout helicopter USE P-531 helicopter  Scout launch vehicle GS launch vehicles Scout launch vehicle rocket vehicles Individual rocket vehicles Scout launch vehicle rocket vehicles Scout launch vehicle RT Algol engine Explorer 9 satellite Explorer 19 satellite Explorer 19 satellite Explorer 20 satellite Explorer 23 satellite Explorer 23 satellite Explorer 24 satellite Explorer 25 satellite Explorer 27 satellite Explorer 37 satellite Explorer 39 satellite Explorer 39 satellite Explorer 39 satellite Explorer 40 satellite
scientifi (adde UF	CALIPSO (Pathfinder satellite) CloudSat Glory Mission satellite Ice, Cloud and Land Elevation Satellite Polar/GGS spacecraft QuikSCAT satellite TRMM satellite Upper Atmosphere Research Satellite (UARS) Wind/GGS spacecraft Canadian space program Cluster Mission EOS data and information system ESRO 4 satellite SOHO Mission technology feasibility spacecraft ic visualization and July 1993) data visualization information analysis . scientific visualization numerical flow visualization	tant luminous object viewed through the atmosphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its mean position.  RT glint phosphorescence scintillating fibers seeing (astronomy)  scintillation counters  DEF The combinations of phosphor, photomultiplier tube, and associated circuits for counting scintillations. Used for scintillators and scintillometers.  UF scintillators scintillometers  GS measuring instruments . counters . radiation counters	Scout helicopter USE P-531 helicopter USE P-531 helicopter  Scout launch vehicle GS launch vehicles Scout launch vehicle rocket vehicles Inultistage rocket vehicles Scout launch vehicle rocket vehicles Scout launch vehicle RT Algol engine Explorer 9 satellite Explorer 19 satellite Explorer 19 satellite Explorer 20 satellite Explorer 23 satellite Explorer 23 satellite Explorer 24 satellite Explorer 25 satellite Explorer 27 satellite Explorer 30 satellite Explorer 37 satellite Explorer 39 satellite Explorer 39 satellite Explorer 39 satellite Explorer 40 satellite San Marco satellites
scientifi (adde UF GS	. CALIPSO (Pathfinder satellite) . CloudSat . Glory Mission satellite . Ice, Cloud and Land Elevation Satellite . Polar/GGS spacecraft . QuikSCAT satellite . TRMM satellite . Upper Atmosphere Research Satellite (UARS) . Wind/GGS spacecraft Canadian space program Cluster Mission EOS data and information system ESRO 4 satellite SOHO Mission technology feasibility spacecraft ic visualization ad July 1993) data visualization information analysis . scientific visualization . numerical flow visualization computer graphics	tant luminous object viewed through the atmosphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its mean position.  RT glint phosphorescence scintillating fibers seeing (astronomy)  scintillation counters  DEF The combinations of phosphor, photomultiplier tube, and associated circuits for counting scintillations. Used for scintillators and scintillometers.  UF scintillators scintillometers  GS measuring instruments . counters . radiation counters scintillation counters	Scout helicopter USE P-531 helicopter USE P-531 helicopter  Scout launch vehicle GS launch vehicles
scientifi (adde UF GS	CALIPSO (Pathfinder satellite) CloudSat Glory Mission satellite Ice, Cloud and Land Elevation Satellite Polar/GGS spacecraft QuikSCAT satellite TRMM satellite Upper Atmosphere Research Satellite (UARS) Wind/GGS spacecraft Canadian space program Cluster Mission EOS data and information system ESRO 4 satellite SOHO Mission technology feasibility spacecraft ic visualization and July 1993) data visualization information analysis . scientific visualization numerical flow visualization	tant luminous object viewed through the atmosphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its mean position.  RT glint phosphorescence scintillating fibers seeing (astronomy)  scintillation counters  DEF The combinations of phosphor, photomultiplier tube, and associated circuits for counting scintillations. Used for scintillators and scintillometers.  UF scintillators scintillators scintillometers  GS measuring instruments counters radiation counters scintillation counters radiation counters radiation counters radiation counters scintillation counters scintillation counters scintillation counters scintillation counters RT anticoincidence detectors	Scout helicopter USE P-531 helicopter USE P-531 helicopter  Scout launch vehicle GS launch vehicles Scout launch vehicle rocket vehicles Inultistage rocket vehicles Scout launch vehicle rocket vehicles Scout launch vehicle RT Algol engine Explorer 9 satellite Explorer 19 satellite Explorer 19 satellite Explorer 20 satellite Explorer 23 satellite Explorer 23 satellite Explorer 24 satellite Explorer 25 satellite Explorer 27 satellite Explorer 30 satellite Explorer 37 satellite Explorer 39 satellite Explorer 39 satellite Explorer 39 satellite Explorer 40 satellite San Marco satellites
scientifi (adde UF GS	CALIPSO (Pathfinder satellite) CloudSat Glory Mission satellite lce, Cloud and Land Elevation Satellite Polar/GGS spacecraft QuikSCAT satellite TRMM satellite Upper Atmosphere Research Satellite (UARS) Wind/GGS spacecraft Canadian space program Cluster Mission EOS data and information system ESRO 4 satellite SOHO Mission technology feasibility spacecraft ic visualization ad July 1993) data visualization information analysis scientific visualization numerical flow visualization computer graphics computerized simulation	tant luminous object viewed through the atmosphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its mean position.  RT glint phosphorescence scintillating fibers seeing (astronomy)  scintillation counters  DEF The combinations of phosphor, photomultiplier tube, and associated circuits for counting scintillations. Used for scintillators and scintillometers.  UF scintillators scintillators scintillometers  GS measuring instruments . counters . radiation counters . scintillation counters . Intillation counters . Intil	Scout helicopter USE P-531 helicopter USE P-531 helicopter  Scout launch vehicle GS launch vehicles . Scout launch vehicle rocket vehicles . multistage rocket vehicles . Magol engine Explorer 9 satellite Explorer 16 satellite Explorer 19 satellite Explorer 20 satellite Explorer 23 satellite Explorer 23 satellite Explorer 24 satellite Explorer 25 satellite Explorer 27 satellite Explorer 37 satellite Explorer 30 satellite Explorer 37 satellite Explorer 39 satellite Explorer 39 satellite Explorer 39 satellite Explorer 40 satellite San Marco satellite San Marco satellite San Marco satellites solid propellant rocket engines TX-354 engine
scientifi (adde UF GS	CALIPSO (Pathfinder satellite) CloudSat Glory Mission satellite Ice, Cloud and Land Elevation Satellite Polar/GGS spacecraft QuikSCAT satellite TRMM satellite TRMM satellite Upper Atmosphere Research Satellite (UARS) Wind/GGS spacecraft Canadian space program Cluster Mission EOS data and information system ESRO 4 satellite SOHO Mission technology feasibility spacecraft ic visualization information analysis scientific visualization numerical flow visualization computer graphics computerized simulation display devices	tant luminous object viewed through the atmosphere. A flash of light produced in a phosphor by an ionizing event. On a radar display, a rapid apparent displacement of the target from its mean position.  RT glint phosphorescence scintillating fibers seeing (astronomy)  scintillation counters  DEF The combinations of phosphor, photomultiplier tube, and associated circuits for counting scintillations. Used for scintillators and scintillometers.  UF scintillators scintillators scintillometers  GS measuring instruments . counters . radiation counters . radiation counters . radiation counters  . radiation counters  RT anticoincidence detectors Cerenkov counters neutron counters	Scout helicopter USE P-531 helicopter USE P-531 helicopter  Scout launch vehicle GS launch vehicles

XM-33 engine		electromagnetic wave filters		magnetic variations
Scout project		electromagnetic wave transmission electron gas		plasmas (physics) thermonuclear reactions
GS programs		semiconductors (materials)		mornioración rodonorio
. NASA programs		wave propagation		computers)
NASA space programs <b>Scout project</b>	∞ screen	ina	USE	site data processors
. projects	SN	(USE OF A MORE SPECIFIC TERM IS		00 series computers
. Scout project space programs		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)	GS	data processing equipment . computers
NASA space programs	RT	filtration fines		digital computers
Scout project		louvers		SDS 900 series computers
RT ∞ boosters Explorer satellites		selection		SDS 930 computer
launch vehicles		water treatment		30 computer
SCPC transmission	∞ screen		GS	data processing equipment . computers
USE single channel per carrier	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		digital computers
transmission	RT	LISTED BELOW) curtains		SDS 900 series computers
SCR (rectifiers)	nı	display devices		SDS 930 computer
USE silicon controlled rectifiers		protectors	SDS 93	300 computer
∞ SCRAM		shielding sizing screens	GS	data processing equipment
SN (USE OF A MORE SPECIFIC TERM IS		wire cloth		. computers digital computers
RECOMMENDEDCONSULT THE TERMS LISTED BELOW)	oorow.	dislocations		SDS 9300 computer
RT missiles	GS	defects	SDV	
shutdowns supersonic combustion ramjet		. crystal defects	USE	Shuttle Derived Vehicles
engines		crystal dislocations screw dislocations	CE 010	) sivereft
		dislocations (materials)		aircraft Caravelle aircraft
scrambling (communication) RT intelligibility		crystal dislocations		Sud Aviation SE-210 aircraft
security	RT	screw dislocations edge dislocations	GS	commercial aircraft . SE-210 aircraft
signal distortion signal encoding				jet aircraft
vocoders	screw   DEF			. turbofan aircraft
voice communication		A cylindrical plasma equilibrium in he axial and azimuthal components of		SE-210 aircraft monoplanes
scramjet engines	the vac	uum field are of the same size.		. SE-210 aircraft
USE supersonic combustion ramjet	GS	pinch effect . plasma pinch		passenger aircraft
engines		screw pinch		. <b>SE-210 aircraft</b> Sud Aviation aircraft
scramjets	RT	magnetic fields		. SE-210 aircraft
USE supersonic combustion ramjet		magnetohydrodynamic flow plasma control	RT «	∞ aircraft
engines		reverse field pinch	SE-316	60 helicopter
scrap		theta pinch	UF	Alouette 3 helicopter
RT chips debris		zeta pinch	GS	Sud Aviation SE-3160 helicopter Sud Aviation aircraft
metal particles	screws		0.0	. Alouette helicopters
wastes	SN	(EXCLUDES PROPELLERS AND CRYSTAL DEFECTS)		SE-3160 helicopter V/STOL aircraft
scrapers	GS	fasteners . screws		. rotary wing aircraft
RT cutters	RT	anchors (fasteners)		helicopters
files (tools)		bolts		Alouette helicopters SE-3160 helicopter
honing ∞ separation		couplings holders		OE 0100 Helioopter
		nuts (fasteners)	SE-A	Evalerar 20 establita
screech tones (added March 1998)		studs (structural members)	USE	Explorer 30 satellite
DEF Discrete acoustic tones produced by		threads	sea bre	
imperfectly expanded supersonic jets. The phe-	scribing			A coastal, local wind that blows from land caused by temperature differences
nomenon is a result of a resonant feedback condition involving downstream traveling shear-	USE	scoring		ne sea surface is colder than the adjacent
layer disturbances and upstream traveling	scrubb		land.	
acoustic waves. GS elastic waves		Apparatus used in sampling and in gas g in which the gas is passed through a	GS	wind (meteorology) . sea breeze
. sound waves		containing wetted "packing" or spray.	RT	aerology
noise (sound)	RT	cleaning		air currents atmospheric circulation
flow noise aerodynamic noise		columns (process engineering) flue gases		barotropic flow
screech tones		washing		climatology
frequencies . acoustic frequencies	aarubbi	na		geostrophic wind gusts
screech tones	scrubbi. USE			marine environments
RT aeroacoustics		-		meteorology
feedback jet aircraft noise		(botany) brush (botany)		monsoons offshore energy sources
jet mixing flow		•		tidal waves
nozzle flow shear layers	Scutun GS	n constellation constellations		wind direction wind effects
supersonic jet flow	GG	. Scutum constellation		wind enects wind erosion
supersonic nozzles	RT	zodiac		wind measurement
screen effect	Scylla			windpower utilization winds aloft
RT ∞ coma	GS	plasma generators		
dielectrics Earth magnetosphere	RT	. Scylla magnetic fields		or spreading led July 1992)
∞ effects		magnetic mirrors		A hypothesis that the oceanic crust is

	g by convective upwelling of magma		international cooperation		sea urchins
	e mid-ocean ridges or world rift system, moving-away of the new material at a		rules United Nations	sea wall	'c
	one to ten centimeters per year. This		Offited Nations		breakwaters
	nt provides the source of dynamic	sea lev	el		
	the hypothesis of plate tectonics.	DEF	The level of the surface of the ocean;	sea wat	
	ocean floor spreading Earth crust		lly, the mean level halfway between high	GS	water . sea water
	Earth mantle		tide used as a standard in reckoning evation or sea depths.	RT	brines
	Earth movements	GS	altitude		coastal water
	mid-ocean ridges		. sea level		dissolved organic matter
	neotectonics	RT	ocean surface		fisheries marine resources
	ocean bottom plates (tectonics)		oceanography sea states		nearshore water
	submarine hydrothermal vents		sea states		ocean surface
	tectonics	Sea of	Japan		ocean temperature
	terradynamics	GS	seas		oceanography red tide
sea gras	sses		. Sea of Japan		salinity
_	plants (botany)	RT	Asia		seaweeds
	. grasses	Sea of	Okhotsk		thermoclines
	sea grasses	GS	seas		thermohaline circulation underwater photography
	marine biology oceanography		. Sea of Okhotsk		underwater resources
	seaweeds	RT	Pacific Ocean		water resources
	vegetation		U.S.S.R.		water sampling
	wetlands	502 FOI	ighness	seaborg	ium
sea ice		GS	roughness		ed May 1998)
	ice packs	0.0	. sea roughness		chemical elements
	ice	RT	hydrodynamic coefficients		. seaborgium
	. sea ice		ocean models	RT	bohrium
	ice floes		ocean surface		dubnium
	icebergs pressure ice		oceanography surface waves	Seafare	r project
	air sea ice interactions		tidal waves	UF	Global Communications Antenna Grid
	bay ice		tide powered generators		(navy)
	freezing		tide powered machines		underground radio antenna grid
	glacial drift glaciers		tidepower tides	GS	(navy) programs
	ice environments		turbulence	ao	. projects
	ice formation		water currents		. Seafarer project
	ice mapping		water waves	RT	extremely low frequencies
	lake ice		waterwave energy conversion		radio transmission
	land ice		waterwave powered machines wind effects		submarines telecommunication
	nunataks oceanography		wind velocity		underwater communication
	polynyas				
		sea sta	tes		hydrothermal vents
sea keep		RT	ocean models		ed April 2005)
	Maintaining the stability of a surface linear response to wave height, pitch,		ocean surface ocean temperature	USL	submarine hydrothermal vents
	enter of gravity, and bow acceleration.		oceanographic parameters	Seahors	e helicopter
	attitude gyros		oceanography	USE	UH-34 helicopter
	damping		sea level	acalanta	
	gyroscopic stability		TOPEX	sealants USE	sealers
	gyrostabilizers motion stability		water currents water waves	002	554.5.5
	stabilizers		wind effects	sealers	
	torquers			UF	sealants
0 1/:		sea sui	face temperature	RT	adhesives coatings
	g helicopter SH-3 helicopter	GS	oceanographic parameters		dopes
002	orr o noncopior		. ocean temperature		fillers
	ght helicopter		sea surface temperature surface properties		packaging
USE	CH-46 helicopter		. surface temperature		packings (seals)
sea laun	nchina		sea surface temperature		paints sealing
	launching		temperature		seals (stoppers)
	. sea launching		. surface temperature sea surface temperature		seams (joints)
	antiship missiles		. water temperature		solders
	antiship warfare ballistic missile submarines		ocean temperature		varnishes
	catapults		sea surface temperature	sealing	
	drydocks	RT	air water interactions land surface temperature		sealing
	fleet ballistic missiles		ocean surface		. self sealing
	missile launchers Poseidon missiles		oceanography	RT	adhesive handing
	rocket launchers				adhesive bonding binding
	torpedoes	sea tru			blocking
	water takeoff and landing aircraft	RT	aerial photography		blowers
	Zenit launch vehicles		coastal currents imagery		bonding
sea law			ocean surface		brazing caulking
DEF	United Nations declaration regarding		ocean temperature		cements
	minerals and other marine resources.		photointerpretation		clamps
ĞS	law (jurisprudence)				closing
	. international law	sea uro			coating
	sea law cooperation	GS	animals . invertebrates		coatings containment
~			01.001.01.00		

# seals (animals)

coverings	RT data retrieval	. NASA programs
encapsulating	information retrieval	NASA space programs
glands (seals)	∞ profiles	Earth Resources Program
∞ joining	and the second s	Earth Resources Survey
lining processes	search radar	Program
moisture resistance	GS radar	SEASAT program
∞ packing	search radar	. space programs
packings (seals)	over-the-horizon radar	NASA space programs
plugging	RT airport surface detection equipment	Earth Resources Program
retaining	coherent radar	Earth Resources Survey
riveting	continuous wave radar	Program
sealers	pulse radar	SEASAT program
soldering	radar detection	RT Landsat satellites
spraying	radar tracking	oceanography
stopping	satellite-borne radar	
waterproofing	side-looking radar	SEASAT satellites
welding	surveillance radar	GS artificial satellites
	tracking radar	. SEASAT satellites
seals (animals)	TRADEX radar system	SEASAT 1
GS animals		SEASAT-B satellite
. vertebrates	searching	RT Landsat satellites
mammals	GS searching	NASA programs
marine mammals	. search profiles	oceanography
seals (animals)	RT conical scanning	programs
RT marine biology	COSPAS	satellite altimetry
	panoramic scanning	Synchronous Earth Observatory
seals (stoppers)	reconnaissance	satellite
GS seals (stoppers)	retrieval	
. brush seals	SarSat	SEASAT-B satellite
. gaskets	scanning	GS artificial satellites
. glands (seals)	selection	. SEASAT satellites
. hermetic seals		SEASAT-B satellite
. labyrinth seals	searchlights	RT Landsat satellites
. O ring seals	GS lighting equipment	oceanography
. packings (seals)	. luminaires	programs
. plugs	searchlights	SEASAT 1
. pump seals	RT airport lights	
RT air locks	arc lamps	seasonal variations
barrier layers	beacons	USE annual variations
∞ barriers	projectors	
blocking	runway lights	seasons
∞ caps		GS seasons
closures	seas	. autumn
constrictions	DEF Inland bodies of salt water or geo-	. spring (season)
cuffs	graphic divisions of oceans or ocean areas of	. summer
plugging	wave generation.	. winter
sealers	GS seas	RT annual variations
spherical caps	. Arabian Sea	climatology
∞ tapes	. Baltic sea	crop calendars
valves	. Barents Sea	equinoxes
	. Beaufort Sea (North America)	meteorology
seamounts	. Bering Sea	solar position
DEF Elevations of the ocean floor rising to	. Black Sea	solstices
about 3000-1000 feet or more with the summit	. Caribbean Sea	weather
about 1000-6000 feet below sea level.	. Caspian Sea	wind variations
RT continental shelves	. Chukchi Sea	
crevasses	. Mediterranean Sea	Seasprite helicopter
∞ faults	Adriatic Sea	USE UH-2 helicopter
folds (geology)	. North Sea	
islands	. Red Sea	seat belts
landforms	. Salton Sea (CA)	DEF Safety belts that fasten across the lap
mid-ocean ridges	. Sea of Japan	GS safety devices
ocean bottom	. Sea of Okhotsk	. seat belts
structural basins	RT archipelagoes	RT ∞ belts
	coastal currents	harnesses
seams (joints)	coasts	seats
GS joints (junctions)	deep water	
. seams (joints)	Earth hydrosphere	seats
RT adhesives	ocean temperature	UF benches
fillets	oceanography	chairs
metal joints	oceans	GS seats
sealers	Sargasso Sea	. Barany chair
	seaweeds	. ejection seats
seaplanes	shallow water	flying ejection seats
GS water takeoff and landing aircraft	shoals	RT comfort
seaplanes	straits	couches
RT amphibious aircraft	thermal pollution	cushions
amphibious vehicles	underwater photography	harnesses
hulls (structures)		∞ lounges
monoplanes	SEASAT 1	riding quality
	GS artificial satellites	seat belts
Search and Rescue Satellite	. SEASAT satellites	sitting position
USE SarSat	SEASAT 1	
	RT Landsat satellites	Sea-viewing Wide Field-of-view Sensor
Search for Extraterrestrial Intelligence	oceanography	(added December 1998)
USE Project SETI	programs	UF SeaWiFS
	SEASAT-B satellite	GS scanners
search profiles		. ocean color scanner
GS searching	SEASAT program	Sea-viewing Wide Field-of-view
. search profiles	GS programs	Sensor
	The state of the s	

RT chlorophylls	corner flow	RT atmospheric physics
Coastal Zone Color Scanner	three dimensional boundary layer	solar activity effects
ocean surface phytoplankton	vortices vorticity	solar cycles teleconnections (meteorology)
remote sensors	volucity	teleconnections (meteorology)
satellite-borne instruments	secondary injection	security
water color	GS injection	GS security
	. secondary injection	. airport security
seaweeds UF kelp	RT fluid injection shock wave control	<ul><li>computer security</li><li>computer information security</li></ul>
RT marine biology	shock wave propagation	firewalls (computers)
oceanography	supersonic flow	intrusion detection (computers)
oceans	thrust augmentation	RT ∞ classifying
sea grasses	thrust vector control	computer program integrity
sea water seas	secondary ion mass spectrometry	crime integrity
3643	(added July 1991)	police
SeaWiFS	DEF Mass spectrometry performed on ions	privacy
(added December 1998)	sputtered from a sample by a primary ion beam.	scrambling (communication)
USE Sea-viewing Wide Field-of-view Sensor	UF SIMS (spectrometry) GS spectroscopy	selective dissemination of information
Selisoi	. mass spectroscopy	steganography terrorism
sebaceous glands	secondary ion mass	vulnerability
GS anatomy	spectrometry	•
. glands (anatomy)	RT mass spectrometers	sedatives
. sebaceous glands	secondary radar	GS drugs . <b>sedatives</b>
sebacic acid	DEF A radar technique or mode of operation	RT pentobarbital
GS acids	in which the return signals are obtained from	phenobarbital
. carboxylic acids	beacons, transponders, or repeaters carried by	psychotropic drugs
fatty acids	the targets, contrasted with primary radar in	tranquilizers
<b>sebacic acid</b> organic compounds	which the return signals are obtained by reflection from the targets.	sediment transport
. carboxylic acids	GS radar	RT mass flow
fatty acids	. secondary radar	mass transfer
sebacic acid	RT discrete address beacon system	sediments
accordant hattarias	interrogation	andimentary reaks
secondary batteries USE storage batteries	secondary waves	sedimentary rocks  DEF Rocks resulting from the consolidation
	USE S waves	of loose sediments that have accumulated in
secondary cosmic rays	secretions	layers, e.g., clastic rocks (such as fragments of
DEF Secondary emission in the atmosphere stimulated by primary cosmic rays. Used	GS secretions	older rocks transported from their source and
for Moliere formula.	. endocrine secretions	deposited in water or from air or ice. Sedimen- tary rocks constitute one of the three main
UF Moliere formula	hormones	classes into which rocks are divided, the others
GS ionizing radiation	corticosteroids	being igneous rocks and metamorphic rocks.
. cosmic rays	aldosterone hydroxycorticosteroid	GS rocks
secondary cosmic rays RT atmospheric radiation	cortisone	. sedimentary rocks
cosmic ray albedo	glucocorticoids	carbonaceous rocks coal
cosmic ray showers	estrogens	anthracite
electron decay rate	hypertensin	lignite
electron photon cascades	pituitary hormones adrenocorticotropin (ACTH)	solvent refined coal
electron precipitation primary cosmic rays	vasopressins	limestone sandstones
single event upsets	prostaglandins	shales
emgra aram apara	thyroxine	RT alluvium
secondary emission	insulin	breccia
DEF Emission of subatomic particles of	. sweat RT body fluids	clays
photons stimulated by primary radiation; for example, cosmic rays impinging on other particles	gall	dolomite (mineral)
and causing them, by disruption of their electron	glands (anatomy)	gypsum igneous rocks
configurations or even of their nuclei, to emit	hydrogen metabolism	∞ layers
particles or photons or both in turn.	melatonin	monazite sands
GS emission	metabolism mineral metabolism	petrography
. particle emission electron emission	skin (anatomy)	sands sediments
secondary emission		shatter cones
RT dynodes	∞ sections	soils
electron irradiation	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	stratigraphy
field emission	LISTED BELOW)	a a disa a mata
monoscopes multipactor discharges	RT categories classes	sediments  DEF Solid fragmental materials that origi-
photomultiplier tubes	subdivisions	nate from weathering of rocks and are trans-
scanning electron microscopy	subsidiaries	ported or deposited by air, water, or ice, or that
Townsend avalanche		accumulate by other natural agents, such as
socondary flow	∞ sectors     SN (USE OF A MORE SPECIFIC TERM IS	chemical precipitation from solution or secretion
secondary flow GS fluid flow	RECOMMENDEDCONSULT THE TERMS	by organisms, and that form in layers on the Earth's surface at ordinary temperatures in a
. parallel flow	LISTED BELOW) RT area	loose, unconsolidated form; e.g., sand, gravel,
three dimensional flow	circles (geometry)	silt, mud, till, loess, and alluvium.
secondary flow	regions	UF silts
. viscous flow	· ·	GS sediments
boundary layer flow <b>secondary flow</b>	secular perturbation	. gravels . mud
translational motion	USE long term effects	. sands
. three dimensional motion	secular variations	monazite sands
three dimensional flow	GS variations	tar sands
secondary flow RT compressibility effects	. periodic variations <b>secular variations</b>	RT alluvium clays
RT compressibility effects		

	deposition		turbulence effects	c	∞ waves
	deposits				
	dissolved organic matter	seekers	2	seismo	cardiography
	dredged materials				The measurement of the high fre-
	•	USE	homing devices		•
	fans (landforms)				vibrations of the heart.
	glacial drift	seepag	ie .	GS	bioengineering
	grit	ŔŢ	canals		. biometrics
	littoral drift		drainage		cardiography
	marine chemistry		•		seismocardiography
			flood damage	DT	
	ocean bottom		flow nets	RT	ballistocardiography
	peat		hydrodynamics		fibrillation
	sediment transport		intrusion		
	sedimentary rocks		irrigation	seismo	grams
	sewage treatment		leakage	RT	seismographs
	sludge		losses	oolomo	aranha
	soil pollution		offshore energy sources	seismo	
			penetration	UF	seismometers
			percolation	GS	measuring instruments
SEE (so	oftware engineering environments)		permeability		. vibration meters
USE	programming environments				seismographs
	1 3 3 3 4 4 4		piezometers		lunar seismographs
			water consumption		
Cashaa	le apofficient				recording instruments
	k coefficient	seame	nted mirrors		. seismographs
USE	Seebeck effect				lunar seismographs
			led August 1995)	RT	accelerometers
			Telescope mirrors made up of many		acoustic measurement
Seebec	k effect	small, t	hin, glass segments. Motorized control-		
	The establishment of an electric poten-		ep the segments optically aligned to form		phased arrays
	erence tending to produce a flow of		e large mirror.		seismograms
					shock measuring instruments
	in a circuit of two dissimilar metals the	GS	mirrors		tiltmeters
junction	s of which are at different temperatures.		. segmented mirrors		tiltifictors
Used fo	r Seebeck coefficient.	RT	adaptive optics		t
UF	Seebeck coefficient		astronomical observatories	seismo	
			deformable mirrors	DEF	The study of earthquakes, by exten-
HI ∘	∘ effects			sion, the	e structure of the interior of the Earth via
	Peltier effects		honeycomb mirrors		atural and artificially generated seismic
	temperature effects		optical correction procedure		
	thermocouples		reflecting telescopes	signals.	
			3	GS	seismology
	thermodynamic properties		-1-		. asteroseismology
	thermoelectricity	segme			. moonquakes
	thermophysical properties	RT	circles (geometry)		helioseismology
	transport properties		∞ components	DT	
			curves (geometry)	RT	asthenosphere
					crustal fractures
	(in = =l = ti =)		lines (geometry)		Earth movements
	(inoculation)		radii		Earth sciences
USE	inoculation				
		Segre (	characteristic		earthquake damage
			∞ characteristics		earthquakes
seedlin	gs (botany)	יוח			geology
			crack propagation		geophysics
	ed August 2004)		metal fatigue		isostasy
DEF	A very young plant after germination of		_		,
seeds.		oograg	ation		large aperture seismic array
GS	plants (botany)	segrega			lunar geology
ao		USE	separation		mid-ocean ridges
	seedlings (botany)				Rouse belts
RT	plant physiology	ealemi	cenergy		
	plant roots		0,	c	∞ science
	seeds	RT	earthquake damage		seismic waves
			∞ energy		subduction (geology)
			strain energy methods		tidal waves
			•		ildai waves
seeds					
RT	alfalfa		c waves	seismo	
	barley	DEF	The disturbance of earth tremors pro-	USE	seismographs
	citrus trees	duced b	by a mechanical disturbance on the sur-		
	corn	face or	underground. Used for electroseismic	seizure	es .
		effect.	andorground occurrence	RT	convulsions
	embryos	UF	alastropoismis affact		
	farm crops		electroseismic effect		cramps
	grains (food)	GS	elastic waves		
	nuts (fruits)		. seismic waves	SEL co	mputers
	oats		Love waves	GS	data processing equipment
			microseisms		. computers
	planting				digital computers
	plants (botany)		Rayleigh waves		
	seedlings (botany)	RT	crustal fractures		SEL computers
	sugar beets		detonation waves		
	sugar cane		dilatational waves	selection	on
			Earth movements	UF	choice
	tomatoes				
	utricle		earthquake damage	GS	selection
	vegetables		earthquake resistance		. personnel selection
	viability		earthquake resistant structures		pilot selection
			earthquakes		. materials selection
			Gutenberg zone		. site selection
0001	(actronomy)			DT	
	(astronomy)		large aperture seismic array	RT	certification
(add	ed July 1989)		longitudinal waves	c	∞ classifying
ÙF	atmospheric seeing		P waves		collection
RT	astronomical observatories		planetary quakes		decisions
111					
	astronomy		polarized elastic waves		evaluation
	atmospheric effects		S waves		figure of merit
	atmospheric optics		seismology		options
	atmospheric turbulence		SH waves		ranking
			shock waves		rejection
	optical correction procedure				,
	scintillation		surface waves		sampling
	space observations (from Earth)		tsunami waves	c	∞ screening
	telescopes		underground explosions		searching
	•		- F		•

sorting algorithms lunar soil . . zinc selenides lunar surface selenium lunar temperature GS chemical elements lunar tides selection rules (nuclear physics) selenium lunar topography rules GS RT selenium isotopes moon selection rules (nuclear physics) moonquakes alpha decay selenium alloys regolith emission GS alloys selenography forbidden transitions selenium alloys neutron emission RT copper ∞ physics self absorption GS energy absorption radiation absorption quantum numbers selenium compounds selenium compounds . . self absorption selective dissemination of information . selenides RT ∞ absorption GS communicating . . cadmium selenides absorption spectra . information dissemination . . copper selenides absorptivity . . selective dissemination of ... copper indium selenides automatic control information . . gallium selenides diffusion RT computer information security indium selenides ∞ radiation data storage ... copper indium selenides documentation . . lead selenides self adaptive control systems indexes (documentation) . . zinc selenides DEF Particular types of stability augmenta-tion systems which change the responses of given control inputs by constantly sampling re-sponses and adjusting their gain, rather than having fixed or selection on particular information flow selenium oxides information retrieval RT ∞ chemical compounds information systems ∞ Group 6A compounds libraries having fixed or selective gain systems. management planning selenium isotopes automatic control security GS chemical elements . adaptive control technology transfer . nuclides self adaptive control systems . . isotopes . selenium isotopes active control selective fading adaptive optics selenium GS fading automata theory . signal fading selenium oxides autonomy selective fading GS chalcogenides  $\infty$  control frequency analyzers . oxides ∞ systems ground wave propagation . selenium oxides modulation selenium compounds sidebands self alignment selenium oxides signal fading rate GS alignment self alignment selenography RT active control selective surfaces geography adaptive control Surfaces, often coated, for which the lunar craters automatic control spectral optical properties, such as reflectance, lunar crust landing gear absorptance, emittance, or transmittance vary lunar landing sites model reference adaptive control significantly with wavelength. Such properties lunar maps servomechanisms are of interest in solar energy applications. Used lunar mobile laboratories for solar selective coatings. lunar rays self assembly solar selective coatings lunar rocks (added January 2001) energy absorption films lunar topography DEF Coordinated action of independent selectivity moon units to produce a larger structure or to achieve solar collectors selenology a desired group effect. A strategy for nanofabrisolar energy absorbers surface properties cation that involves designing molecules and thermochromic coatings supramolecular entities so that shapeselenology complementarity or other properties causes them to aggregate into desired structures. That branch of astronomy that treats of selectivity the moon, its magnitude, motion, constitution, discrimination RT assembling GS and the like. Selene is Greek for moon. photothermal conversion self assembly astronomy lunar composition selective surfaces abiogenesis ∞ assembly lunar core chemical evolution fabrication selectors lunar craters analyzers RT lunar crust circuits micelles lunar dust electric relays molecular biology lunar echoes molecular structure samplers lunar eclipses switches monomolecular films lunar effects switching circuits nanofabrication lunar environment nanostructure (characteristics) lunar equator nanotechnology selenides lunar evolution synthesis (chemistry) GS chalcogenides lunar exploration selenides lunar far side self calibrating omnirange UF SCORE omnirange . . cadmium selenides lunar figure . . copper selenides lunar geology . . . copper indium selenides lunar gravitation GS navigation aids . . gallium selenides lunar gravitational effects . beacons . . indium selenides lunar limb . . radio beacons . . . omnidirectional radio ranges . copper indium selenides lunar luminescence . . lead selenides lunar magnetic fields . . self calibrating omnirange . zinc selenides lunar mantle radio equipment selenium compounds lunar maria . radio transmitters . . radio beacons . selenides lunar occultation . . . omnidirectional radio ranges . . cadmium selenides lunar phases . . copper selenides lunar radar echoes . self calibrating omnirange . . . copper indium selenides lunar radiation transmitters . . gallium selenides lunar rocks . radio transmitters . . indium selenides lunar rotation . . radio beacons

lunar seismographs

lunar shadow

. copper indium selenides

lead selenides

. . . omnidirectional radio ranges

.... self calibrating omnirange

RT solar compasses reaction jet backpacks ∞ tests SMU (maneuvering units) self consistent fields space self maneuvering units Selsyns (trademark) UF SCF self maneuvering units USE servomotors RT computational chemistry . IMLSS SEM (microscopy) field theory (physics) RT astronaut maneuvering equipment ∞ fields extravehicular activity USE scanning electron microscopy Hartree approximation extravehicular mobility units magnetic fields maneuvers semantics molecular orbitals manned maneuvering units GS linguistics quantum electrodynamics semantics communication theory shell theory self organizing systems grammars perceptrons self deploying space stations
USE self erecting devices languages RT artificial intelligence message processing machine learning space stations messages ∞ systems natural language processing Turing machines self diffusion (solid state) nomenclatures DEF The spontaneous movement of an orthography atom to a new site in a crystal of its own species. parsing algorithms self oscillation diffusion GS predicate logic GS oscillations . self diffusion (solid state) psycholinguistics self oscillation atomic mobilities sentences feedback amplifiers ionic diffusion speech positive feedback molecular diffusion syllables transfer functions particle diffusion symbols syntax self erecting devices self propagation words (language) self deploying space stations GS diffusion RT ∞ automation self propagation semicircular canals ∞ devices DEF Structures of the inner ear, the primary transmission ∞ equipment self propagation function of which is to register movement of the inflatable spacecraft RT ∞ propagation body in space. They respond to change in the inflatable structures rate of movement. orbital assembly GS anatomy self regulating space erectable structures . sense organs USE automatic control . . ear self excitation . . . labyrinth GS excitation . . . sémicircular canals self repairing devices self excitation RT eardrums RT ∞ automation forced vibration middle ear ∞ devices free vibration otolith organs evolvable hardware oscillators vestibules maintenance resonators semiconducting films self focusing self sealing amorphous semiconductors GS focusing GS sealing amorphous silicon self focusing self sealing diamond films RT image contrast RT flight safety energy absorption films ∞ machinery fuel systems ∞ films optical correction procedure rupturing superconducting films optical measuring instruments support systems thick films thin films self ignition (added April 1997) self shadowing semiconductor devices USE spontaneous combustion RT large space structures Electron devices in which the characshadows teristic distinguishing electronic conduction takes place within semiconductors. self induced vibration solar arrays GS vibration GS electronic equipment . structural vibration self stimulation . solid state devices . . self induced vibration . . semiconductor devices motivation . . . panel flutter reinforcement (psychology) ... avalanche diodes . . . subsonic flutter . cryosar . . . supersonic flutter Barritt diodes . transonic flutter self subtraction holography ... charge transfer devices bending vibration USE holographic subtraction . . . . bucket brigade devices flutter . . . . charge coupled devices forced vibration . . . . charge injection devices free vibration self sustained emission ... germanium diodes GS emission missile vibration . . . heterojunction devices pilot induced oscillation self sustained emission .... high electron mobility transistors random vibration electron emission .... MODFETS torsional vibration light emission ... junction diodes particle emission . . . . MIM diodes self initiated antiaircraft missiles stimulated emission step recovery diodes USE SIAM missiles ... light emitting diodes . . . metal oxide semiconductors self lubricating materials DEF Programmed functions performed by a .... CMOS impregnating RT machine, either automatically at start-up or on .... ITO (semiconductors) lubrication user demand, that test the working order of the SOS (semiconductors) materials machine. In particular, programs stored in read-MIM (semiconductors) solid lubricants only memory that test the integrity of a ma-MIS (semiconductors) spacecraft lubrication MOM (semiconductors) chine's integrated circuits and the connections self lubrication between the circuits and the devices they con-MSM (semiconductors) NDM semiconductor devices lubrication GS automatic test equipment . . . neuristors self lubrication parametric diodes avionics impregnating checkout . . photodiodes

electronic equipment tests

fail-safe systems

... photovoltaic cells

. . . . solar cells

self maneuvering units

personnel propulsion systems

# semiregular variable stars

	vertical junction solar cells		tunnel diodes	in the r	range between metals and insulators, in
	Schottky diodes		resonant tunneling diodes		he electrical charge carrier concentration
	semiconductor lasers		varactor diodes		es with increasing temperature over
	aluminum gallium arsenide	RT	MIM diodes		emperature range. Certain semiconduc-
	lasers		SIS (semiconductors)		ossess two types of carriers, namely,
	gallium arsenide lasers		thermionic diodes		e electrons and positive holes.
	quantum cascade lasers			GS	
	quantum well lasers	semico	nductor insulator semiconductors		. acceptor materials
	YLF lasers	USE	SIS (semiconductors)		. amorphous semiconductors
	SOI (semiconductors)		,		amorphous silicon
	thermistors	semico	nductor junctions		. donor materials
	thyristors	GS	semiconductor junctions		. metal oxide semiconductors
	silicon controlled rectifiers		. heterojunctions		CMOS
	transferred electron devices		. homojunctions		ITO (semiconductors)
	transistor amplifiers		. MBM junctions		SOS (semiconductors)
	transistors		. n-n junctions		. metal-nitride-oxide-semiconductors
	bipolar transistors		. n-p-n junctions		. metal-nitride-oxide-silicon
	field effect transistors		. p-i-n junctions		. MIM (semiconductors)
	charge flow devices		. p-n junctions		. MIS (semiconductors)
	JFET		. p-n-p junctions		. MOM (semiconductors)
	MODFETS		. p-n-p-n junctions		. n-type semiconductors
	high electron mobility transistors		. silicon junctions		. organic semiconductors
	MODFETS	RT	Barritt diodes		. photoconductors
	junction transistors		heterojunction devices		. p-type semiconductors
	JFET		∞ junctions		. superlattices
	phototransistors		MSM (semiconductors)		. Vycor
	silicon transistors		n-type semiconductors	RT	aluminum arsenides
	SOS (semiconductors)		p-type semiconductors		antisite defects
	single electron transistors		Schottky diodes		bipolar transistors
	cascode devices		SIS (semiconductors)		bucket brigade devices
	quantum well infrared		threshold voltage		carbon nitrides
	photodetectors		tunnel junctions		carrier density (solid state)
	resonant tunneling diodes				carrier injection
	TRAPATT devices	semico	nductor lasers		charge injection devices
	varactor diodes	UF	laser diodes		conducting polymers
	variator diodes	GS	electronic equipment		conducting polymers
RT		0.0	. solid state devices		conductors
H I	barrier layers		semiconductor devices		
	bubble technique		semiconductor lasers		copper indium selenides
	chips (memory devices)		aluminum gallium arsenide		doping (materials)
	crystal rectifiers		lasers		electric conductors
	diffusion electrodes		gallium arsenide lasers		electron affinity
	diffusion length		quantum cascade lasers		electron density (concentration)
	diodes		quantum well lasers		electron tunneling
	doping (materials)		YLF lasers		electrons
	Gunn diodes		stimulated emission devices		emitters
	Gunn effect				excitons
	Hall effect		. lasers		gadolinium-gallium garnet
	hybrid circuits		semiconductor lasers		gallium nitrides
	ion implantation		aluminum gallium arsenide lasers		hole distribution (electronics)
0	∘ junctions		gallium arsenide lasers		holes (electron deficiencies)
	microminiaturization		quantum cascade lasers		indium antimonides
	modulation doping		quantum well lasers		indium gallium arsenides
	molecular electronics		YLF lasers		indium selenides
	nanostructures (devices)	RT	Bragg reflectors		indium tellurides
	organic semiconductors		DBR lasers		intermetallics
	oscillators		distributed feedback lasers		majority carriers
	parametric amplifiers		fiber lasers		∞ materials
	pentodes		gadolinium-gallium garnet		melts (crystal growth)
	quantum dots		gallium arsenides		metalloids
	quantum Hall effect		Gunn effect		minority carriers
	quantum wires		injection lasers		modulation doping
	rectifiers		laser arrays		nanostructure (characteristics)
	semiconductors (materials)		laser cavities		negative electron affinity
	silicon films		optical switching		organic charge transfer salts
	tetrodes		pulsed lasers		polyacetylene
	triodes		Q switched lasers		pseudopotentials
	tunnel junctions		quantum dots		resistors
	wafers		quantum wires		screen effect
	That of the state		solid state lasers		semiconductor devices
			surface emitting lasers		semiconductor plasmas
semico	nductor diodes		waveguide lasers		∞ solid state physics
DEF	Two-electrode semiconductor devices		· ·		thermoelectric materials
utilizing	the rectifying properties of junctions or	semico	nductor plasmas		momodouno materiale
point co	ntacts.	GS	particles		
GS	electronic equipment		. charged particles	semier	npirical equations
	. diodes		energetic particles	RT	
	semiconductor diodes		plasmas (physics)		∞ equations
	avalanche diodes		semiconductor plasmas		parameterization
	cryosar		corpuscular radiation		r
	Barritt diodes		energetic particles		
	germanium diodes		plasmas (physics)	semime	etals etals
	Gunn diodes		semiconductor plasmas		metalloids
	transferred electron devices	RT	electron mobility		
	junction diodes		electron-hole drops		
	MIM diodes		holes (electron deficiencies)	semire	gular variable stars
	step recovery diodes		plasma physics		celestial bodies
	light emitting diodes		semiconductors (materials)		. stars
	parametric diodes		,		variable stars
	photodiodes	semico	nductors (materials)		semiregular variable stars
	Schottky diodes	DEF	Electronic conductors, with resistivity	RT	irregular variable stars
					-

	periodic variations		sensibility		perceptual time constant
		GS	sensitivity		physiological tests
semiso			. anaphylaxis		pilot performance
RT	plastic properties solids		. impact resistance		reaction time
	thixotropy		. notch sensitivity . pain sensitivity		sensory feedback
	viscous fluids		. photosensitivity	∞ sensors	<b>i</b>
			. light adaptation	SN	(USE OF A MORE SPECIFIC TERM IS
	an models		phototropism		RECOMMENDEDCONSULT THE TERMS
GS	models		. propellant sensitivity	DEF	LISTED BELOW)  Devices designed to respond to physi-
DT	. semispan models		. radiation tolerance		uli (as temperature, illumination, and
RT	aerodynamic configurations aircraft models		. sensitometry		and transmit a resulting signal for inter-
	scale models	RT	. spectral sensitivity acuity		, or measurement, or for operating a
	wind tunnel models	• • • • • • • • • • • • • • • • • • • •	adaptation		Used for pickoffs and pickups.
_			amplification	UF	pickoffs pickups
	ont polariscopes		auditory perception	RT	bioinstrumentation
GS	measuring instruments . polariscopes		dynamic characteristics		character recognition
	Senarmont polariscopes		dynamic response frequency response		charge flow devices
	optical equipment		itching		contour sensors
	. polariscopes		perception		crop identification data acquisition
DT	Senarmont polariscopes		precision		electronic transducers
RT	lasers		range (extremes)		FLIR detectors
	optical measuring instruments		reaction time		gas detectors
senders		~	resistance resolution		guidance sensors
USE	transmitters		sensitizing		image velocity sensors
0	-to-u-ft		shock resistance		laser gyroscopes measuring instruments
Seneca		~	thresholds		microoptoelectromechanical systems
USE	PA-34 Seneca aircraft		thresholds (perception)		microwave sensors
Senega	1		tolerances (mechanics)		multispectral linear arrays
	nations		transfer functions transient response		remote sensors
	Senegal		visibility		robot sensors
RT	Africa		vulnerability		servomotors smart materials
00000	vaana				tactile sensors (robotics)
sense o	anatomy		rity analysis		torque sensors (robotics)
ao	. sense organs		ed February 2001) Study of how the variation in the output		transducers
	chemoreceptors		tem model can be qualitatively or quan-		
	ear		apportioned to different input param-		deprivation
	eardrums		odel structures, or calibration data.	GS	deprivation
	eustachian tubes	RT ∝	analyzing	RT	. sensory deprivation confinement
	labyrinth cochlea		design analysis		confining
	Corti organ		design optimization		monotony
	otolith organs		error analysis factorial design		perception
	semicircular canals		optimization		
	vestibules		parameter identification		discrimination
	middle ear		parameterization	GS	discrimination
	eye (anatomy) choroid membranes		shape optimization		. sensory discrimination . brightness discrimination
	conjunctiva		systems analysis		tactile discrimination
	cornea	sensitiz	ring		visual discrimination
	oculomotor nerves	RT	activation	RT	speech recognition
	pupils		actuation		time discrimination
	retina		anaphylaxis		faadbaak
	fovea gravireceptors		corrosion prevention		feedback feelings
	otolith organs		sensitivity		feedback
	baroreceptors	sensito	metry		. biofeedback
	mechanoreceptors	DEF	The measurement of the light re-		sensory feedback
	photoreceptors		characteristics of photographic film un-	RT	emotional factors
	proprioceptors		cified conditions of exposure and devel-		emotions moods
RT	thermoreceptors fingers	opment. GS	sensitivity		moon illusion
	head (anatomy)	us	. sensitometry		nonlinear feedback
	nervous system	RT	gravireceptors		perception
	olfactory perception		mechanoreceptors		sensorimotor performance
	organs		photoreceptors		
	perceptual time constant receptors (physiology)		photosensitivity		perception senses
	sensitometry		proprioceptors		perception
	skin (anatomy)		radiation measurement receptors (physiology)	30	. sensory perception
			sense organs		auditory perception
senses			thermoreceptors		consciousness
USE	sensory perception		funian		extrasensory perception
sensibili	tv	sensor i	rusion multisensor fusion		kinesthesia olfactory perception
USE	sensitivity	USE	munisensor rusion		pain
		sensori	motor performance		. pain sensitivity
sensing		UF	motor skills		proprioception
USE	detection	GS	sensorimotor performance		autokinesis
	da		. psychomotor performance		taste
sensitiv DEF		RT	psychosomatics afferent nervous systems		touch tactile discrimination
	is of the input parameters. Used for	пі	efferent nervous systems		vertical perception
	vity and sensibility.		human performance		vibration perception
UF	insensitivity		human reactions		. visual perception

	21. 1.01.1.6.1		
	critical flicker fusion	surface roughness effects	shaking
	space perception	turbulence effects	shearing
	autokinesis	vortex flaps	size separation
	visual discrimination		slicing
RT	afterimages	separation	solvent extraction
	anesthesia	SN (USE OF A MORE SPECIFIC TERM IS	sorption
	electrocutaneous communication	RECOMMENDEDCONSULT THE TERMS	. 6
	itching	LISTED BELOW) UF seareaation	splitting
		UF <i>segregation</i> RT adsorption	spreading
	y stimulation	aeration	stage separation
GS	stimulation		stripping (distillation)
	. sensory stimulation	agglomeration	sublimation
RT	chronaxy	agitation	swirling
	emotional factors	beneficiation	thermal diffusion
	subliminal stimuli	boundary layer separation	thermophoresis
		breaking	tumbling motion
sensory	thresholds	centrifuging	vaporizing
	ed August 2004)	chemical fractionation	venting
	thresholds (perception)	chipping	washing
002	in concide (perception)	classifiers	zone melting
sentend	ces	cleaning	zone menng
RT	communication theory	coagulation	separators
111	languages	coalescing	UF battery separators
		Coanda effect	, ,
	messages	colloids	GS separators
	semantics	concentrating	. classifiers
	signal reception	condensing	sizing screens
	signal transmission	crystallization	thickeners (equipment)
	speech		. dividers
	syntax	cutting	. drying apparatus
	talking	debonding (materials)	desiccators
	words (language)	decontamination	. dust collectors
		degassing	. evaporators
Sentine	el system	dehumidification	. fluid filters
GS	weapon systems	dehydration	air filters
	Sentinel system	deionization	. precipitators
RT	antimissile defense	delaminating	electrostatic precipitators
	antimissile missiles	demineralizing	. sieves
	civil defense	deoxygenation	. spirals (concentrators)
	Nike missiles	deposition	. stills
	Safeguard system	descaling	
	Spartan missile	desorption	RT centrifuges
	Sprint missile	dialysis	cleaners
	•	diffusion	columns (process engineering)
	surface to air missiles	dispersing	concentrating
00	∘ systems	dissolving	concentrators
050 //-			condensers (liquefiers)
	ndian spacecraft)	distillation	curtains
USE	Indian spacecraft	diverters	∞ diffusers
		∞ division	diverters
	(satellite)	drying	∞ filters
	An ESA meteorological satellite de-	electrodialysis	floats
signed f	for sun-Earth observation and climatol-	electrostatic precipitators	fluidized bed processors
ogy.		elimination	furnaces
GS	artificial satellites	elution	ion exchange membrane electrolytes
	. meteorological satellites	evaporation	mixers
	SEOCS (satellite)	exchanging	∞ separation
		exclusion	shakers
SEOS		external store separation	spacers
USE	Synchronous Earth Observatory	extraction	traps
	satellite	filtration	vaporizers
		flaking	washers (cleaners)
SEPAC	(payload)	flashing (vaporizing)	wasileis (cleatieis)
DEE			washers (spacers)
	Space experiment particle accelera-	flotation	
tors. A S	Space experiment particle accelera- Spacelab 1 payload that experiments on	flotation flushing	washers (spacers) windows (apertures)
tors. A S the Ear	Space experiment particle accelera- Spacelab 1 payload that experiments on rth's ionosphere and magnetosphere.	flotation flushing foaming	washers (spacers) windows (apertures) septum
tors. A S the Ear Used fo	Space experiment particle accelera- Spacelab 1 payload that experiments on	flotation flushing foaming fractionation	washers (spacers) windows (apertures) septum RT mediastinum
tors. A S the Ear Used fo tors.	Space experiment particle accelera- spacelab 1 payload that experiments on rth's ionosphere and magnetosphere. or Space Exper with Particle Accelera-	flotation flushing foaming fractionation fracturing	washers (spacers) windows (apertures) septum RT mediastinum membranes
tors. A S the Ear Used fo	Space experiment particle accelera- spacelab 1 payload that experiments on rth's ionosphere and magnetosphere. or Space Exper with Particle Accelera-	flotation flushing foaming fractionation fracturing homogenizing	washers (spacers) windows (apertures) septum RT mediastinum
tors. A S the Ear Used fo tors. UF	Space experiment particle accelera- Spacelab 1 payload that experiments on  rth's ionosphere and magnetosphere.  or Space Exper with Particle Accelera-  Space Exper with Particle  Accelerators	flotation flushing foaming fractionation fracturing homogenizing ion exchanging	washers (spacers) windows (apertures) septum RT mediastinum membranes ∞ partitions
tors. A S the Ear Used fo tors.	Space experiment particle accelera- Spacelab 1 payload that experiments on  th's ionosphere and magnetosphere.  or Space Exper with Particle Accelera-  Space Exper with Particle  Accelerators  payloads	flotation flushing foaming fractionation fracturing homogenizing ion exchanging ion extraction	washers (spacers) windows (apertures)  septum  RT mediastinum membranes ∞ partitions  sequencing
tors. A S the Ear Used fo tors. UF	Space experiment particle accelera- spacelab 1 payload that experiments on rth's ionosphere and magnetosphere. or Space Exper with Particle Accelera- Space Exper with Particle Accelerators payloads . SEPAC (payload)	flotation flushing foaming fractionation fracturing homogenizing ion exchanging ion extraction ion stripping	washers (spacers) windows (apertures)  septum  RT mediastinum membranes  ∞ partitions  sequencing  RT consecutive events
tors. A S the Ear Used fo tors. UF	Space experiment particle accelera- spacelab 1 payload that experiments on rth's ionosphere and magnetosphere. or Space Exper with Particle Accelera- Space Exper with Particle Accelerators payloads SEPAC (payload)	flotation flushing foaming fractionation fracturing homogenizing ion exchanging ion extraction ion stripping isolation	washers (spacers) windows (apertures)  septum  RT mediastinum membranes  ∞ partitions  sequencing  RT consecutive events coordination
tors. A S the Ear Used fo tors. UF	Space experiment particle accelera- spacelab 1 payload that experiments on rth's ionosphere and magnetosphere. or Space Exper with Particle Accelera-  Space Exper with Particle Accelerators payloads SEPAC (payload) accelerators particle accelerators	flotation flushing foaming fractionation fracturing homogenizing ion exchanging ion extraction ion stripping isolation leaching	washers (spacers) windows (apertures)  septum  RT mediastinum membranes  ∞ partitions  sequencing  RT consecutive events
tors. A S the Ear Used fo tors. UF	Space experiment particle accelera- spacelab 1 payload that experiments on rth's ionosphere and magnetosphere. or Space Exper with Particle Accelera- Space Exper with Particle Accelerators payloads SEPAC (payload)	flotation flushing foaming fractionation fracturing homogenizing ion exchanging ion extraction ion stripping isolation	washers (spacers) windows (apertures)  septum  RT mediastinum membranes  ∞ partitions  sequencing  RT consecutive events coordination
tors. A S the Ear Used fo tors. UF GS RT ~	Space experiment particle accelera- Spacelab 1 payload that experiments on  th's ionosphere and magnetosphere.  or Space Exper with Particle Accelera-  Space Exper with Particle Accelerators  payloads  SEPAC (payload)  accelerators  particle accelerators  Spacelab	flotation flushing foaming fractionation fracturing homogenizing ion exchanging ion extraction ion stripping isolation leaching materials recovery melting	washers (spacers) windows (apertures)  septum RT mediastinum membranes ∞ partitions  sequencing RT consecutive events coordination critical path method
tors. A S the Ear Used fo tors. UF GS RT ~	Space experiment particle accelera- spacelab 1 payload that experiments on rth's ionosphere and magnetosphere. or Space Exper with Particle Accelera-  Space Exper with Particle Accelerators payloads SEPAC (payload) accelerators particle accelerators	flotation flushing foaming fractionation fracturing homogenizing ion exchanging ion extraction ion stripping isolation leaching materials recovery	washers (spacers) windows (apertures)  septum RT mediastinum membranes ∞ partitions  sequencing RT consecutive events coordination critical path method interruption
tors. A S the Ear Used fo tors. UF GS RT ~	Space experiment particle accelera- Spacelab 1 payload that experiments on  th's ionosphere and magnetosphere.  or Space Exper with Particle Accelera-  Space Exper with Particle Accelerators  payloads  SEPAC (payload)  accelerators  particle accelerators  Spacelab	flotation flushing foaming fractionation fracturing homogenizing ion exchanging ion extraction ion stripping isolation leaching materials recovery melting	washers (spacers) windows (apertures)  septum RT mediastinum membranes ∞ partitions  sequencing RT consecutive events coordination critical path method interruption ∞ operations
tors. A S the Ear Used fo tors. UF GS RT   separat	Space experiment particle accelera- spacelab 1 payload that experiments on rth's ionosphere and magnetosphere. or Space Exper with Particle Accelera- Space Exper with Particle Accelerators payloads SEPAC (payload) accelerators particle accelerators Spacelab	flotation flushing foaming fractionation fracturing homogenizing ion exchanging ion extraction ion stripping isolation leaching materials recovery melting mixing	washers (spacers) windows (apertures)  septum RT mediastinum membranes ∞ partitions  sequencing RT consecutive events coordination critical path method interruption ∞ operations operations operations operations research
tors. A S the Ear Used fotors. UF GS RT   separat UF	Space experiment particle accelera- spacelab 1 payload that experiments on rth's ionosphere and magnetosphere. or Space Exper with Particle Accelera- Space Exper with Particle Accelerators payloads SEPAC (payload) accelerators particle accelerators Spacelab sed flow flow separation	flotation flushing foaming fractionation fracturing homogenizing ion exchanging ion extraction ion stripping isolation leaching materials recovery melting mixing osmosis percolation phase separation (materials)	washers (spacers) windows (apertures)  septum RT mediastinum membranes ∞ partitions  sequencing RT consecutive events coordination critical path method interruption ∞ operations operations research packet switching
tors. A S the Ear Used fotors. UF GS RT   separat UF	Space experiment particle accelera- Spacelab 1 payload that experiments on th's ionosphere and magnetosphere. or Space Exper with Particle Accelera-  Space Exper with Particle Accelerators payloads SEPAC (payload) accelerators particle accelerators Spacelab  seed flow flow separation fluid flow	flotation flushing foaming fractionation fracturing homogenizing ion exchanging ion extraction ion stripping isolation leaching materials recovery melting mixing osmosis percolation phase separation (materials)	washers (spacers) windows (apertures)  septum RT mediastinum membranes ∞ partitions  sequencing RT consecutive events coordination critical path method interruption ∞ operations operations research packet switching Petri nets planning
tors. A S the Ear Used fotors. UF GS RT   separat UF	Space experiment particle accelera- spacelab 1 payload that experiments on rth's ionosphere and magnetosphere. or Space Exper with Particle Accelera- Space Exper with Particle Accelerators payloads SEPAC (payload) accelerators particle accelerators sparticle accelerators Spacelab sed flow flow separation fluid flow viscous flow soundary layer flow	flotation flushing foaming fractionation fracturing homogenizing ion exchanging ion extraction ion stripping isolation leaching materials recovery melting mixing osmosis percolation phase separation (materials) polarization (charge separation)	washers (spacers) windows (apertures)  septum RT mediastinum membranes ∞ partitions  sequencing RT consecutive events coordination critical path method interruption ∞ operations operations research packet switching Petri nets planning priorities
tors. A S the Ear Used fotors. UF GS RT   separat UF	Space experiment particle accelera- spacelab 1 payload that experiments on rth's ionosphere and magnetosphere. or Space Exper with Particle Accelera- Space Exper with Particle Accelerators payloads SEPAC (payload) caccelerators particle accelerators Spacelab  sed flow flow separation fluid flow viscous flow boundary layer flow Spacelab flow separated flow separated flow	flotation flushing foaming fractionation fracturing homogenizing ion exchanging ion extraction ion stripping isolation leaching materials recovery melting mixing osmosis percolation phase separation (materials) polarization (charge separation) precipitation (chemistry)	washers (spacers) windows (apertures)  septum RT mediastinum membranes ∞ partitions  sequencing RT consecutive events coordination critical path method interruption ∞ operations operations operations operations research packet switching Petri nets planning priorities ranking
tors. A Sthe Earl Used fotors.  UF  GS  RT ~  separat  UF  GS	Space experiment particle accelera- spacelab 1 payload that experiments on rth's ionosphere and magnetosphere. or Space Exper with Particle Accelera-  Space Exper with Particle Accelerators payloads SEPAC (payload) accelerators particle accelerators Spacelab  sed flow flow separation fluid flow viscous flow boundary layer flow Separated flow Separated flow Separation	flotation flushing foaming fractionation fracturing homogenizing ion exchanging ion extraction ion stripping isolation leaching materials recovery melting mixing osmosis percolation phase separation (materials) polarization (charge separation) precipitation (chemistry) purging	washers (spacers) windows (apertures)  septum  RT mediastinum membranes ∞ partitions  sequencing  RT consecutive events coordination critical path method interruption ∞ operations operations operations research packet switching Petri nets planning priorities ranking scheduling
tors. A S the Ear Used fotors. UF GS RT   separat UF	Space experiment particle accelera- spacelab 1 payload that experiments on  rth's ionosphere and magnetosphere.  or Space Exper with Particle Accelera-  Space Exper with Particle Accelera-  Space Exper with Particle Accelerators  payloads SEPAC (payload)  accelerators  particle accelerators  Spacelab   sed flow  flow separation  fluid flow separated flow separated flow  separated flow  boundary layer separation  cavitation flow	flotation flushing foaming fractionation fracturing homogenizing ion exchanging ion extraction ion stripping isolation leaching materials recovery melting mixing osmosis percolation phase separation (materials) polarization (chemistry) purging purification	washers (spacers) windows (apertures)  septum RT mediastinum membranes ∞ partitions  sequencing RT consecutive events coordination critical path method interruption ∞ operations operations research packet switching Petri nets planning priorities ranking scheduling sequential control
tors. A Sthe Earl Used fotors.  UF  GS  RT ~  separat  UF  GS	Space experiment particle accelera- spacelab 1 payload that experiments on rth's ionosphere and magnetosphere. or Space Exper with Particle Accelera-  Space Exper with Particle Accelerators payloads SEPAC (payload) caccelerators particle accelerators spacelab  sed flow flow separation fluid flow siscous flow boundary layer flow separated flow separated flow boundary layer separation cavitation flow conical flow	flotation flushing foaming fractionation fracturing homogenizing ion exchanging ion extraction ion stripping isolation leaching materials recovery melting mixing osmosis percolation phase separation (materials) polarization (charge separation) precipitation purging purification radiochemical separation	washers (spacers) windows (apertures)  septum  RT mediastinum membranes ∞ partitions  sequencing  RT consecutive events coordination critical path method interruption ∞ operations operations research packet switching Petri nets planning priorities ranking scheduling sequential control switching
tors. A Sthe Earl Used fotors.  UF  GS  RT ~  separat  UF  GS	Space experiment particle accelera- spacelab 1 payload that experiments on rth's ionosphere and magnetosphere. or Space Exper with Particle Accelera- Space Exper with Particle Accelerators payloads SEPAC (payload) caccelerators particle accelerators Spacelab  sed flow flow separation fluid flow viscous flow boundary layer flow separated flow separated flow onical flow conical flow Crocco-Lee theory	flotation flushing foaming fractionation fracturing homogenizing ion exchanging ion extraction ion stripping isolation leaching materials recovery melting mixing osmosis percolation phase separation (materials) polarization (charge separation) precipitation purification radiochemical separation recrystallization	washers (spacers) windows (apertures)  septum RT mediastinum membranes ∞ partitions  sequencing RT consecutive events coordination critical path method interruption ∞ operations operations research packet switching Petri nets planning priorities ranking scheduling sequential control switching switching theory
tors. A Sthe Earl Used fotors.  UF  GS  RT ~  separat  UF  GS	Space experiment particle accelera- spacelab 1 payload that experiments on rth's ionosphere and magnetosphere. or Space Exper with Particle Accelera- Space Exper with Particle Accelerators payloads SEPAC (payload) caccelerators particle accelerators Spacelab  sed flow flow separation fluid flow viscous flow boundary layer flow separated flow boundary layer separation cavitation flow conical flow Crocco-Lee theory flow characteristics	flotation flushing foaming fractionation fracturing homogenizing ion exchanging ion extraction ion stripping isolation leaching materials recovery melting mixing osmosis percolation phase separation (materials) polarization (charge separation) precipitation radiochemical separation recrystallization refining	washers (spacers) windows (apertures)  septum  RT mediastinum membranes ∞ partitions  sequencing  RT consecutive events coordination critical path method interruption ∞ operations operations research packet switching Petri nets planning priorities ranking scheduling sequential control switching
tors. A Sthe Earl Used fotors.  UF  GS  RT ~  separat  UF  GS	Space experiment particle accelera- spacelab 1 payload that experiments on rth's ionosphere and magnetosphere. or Space Exper with Particle Accelera-  Space Exper with Particle Accelerators payloads SEPAC (payload) accelerators particle accelerators Spacelab  sed flow flow separation fluid flow viscous flow boundary layer flow separated flow separated flow conical flow crocco-Lee theory flow distribution	flotation flushing foaming fractionation fracturing homogenizing ion exchanging ion extraction ion stripping isolation leaching materials recovery melting mixing osmosis percolation phase separation (materials) polarization (charge separation) precipitation radiochemical separation recrystallization refining removal	washers (spacers) windows (apertures)  septum  RT mediastinum membranes ∞ partitions  sequencing  RT consecutive events coordination critical path method interruption ∞ operations operations research packet switching Petri nets planning priorities ranking scheduling sequential control switching switching theory turnaround (STS)
tors. A Sthe Earl Used fotors.  UF  GS  RT ~  separat  UF  GS	Space experiment particle accelera- spacelab 1 payload that experiments on rth's ionosphere and magnetosphere. or Space Exper with Particle Accelera- Space Exper with Particle Accelerators payloads SEPAC (payload) caccelerators particle accelerators spacelab sed flow flow separation fluid flow soundary layer flow separated flow separated flow separated flow crocco-Lee theory flow characteristics flow distribution forward facing steps	flotation flushing foaming fractionation fracturing homogenizing ion exchanging ion extraction ion stripping isolation leaching materials recovery melting mixing osmosis percolation phase separation (materials) polarization (charge separation) precipitation purging purification radiochemical separation refining removal scrapers	washers (spacers) windows (apertures)  septum RT mediastinum membranes ∞ partitions  sequencing RT consecutive events coordination critical path method interruption ∞ operations operations research packet switching Petri nets planning priorities ranking scheduling sequential control switching theory turnaround (STS)  sequential analysis
tors. A Sthe Earl Used fotors.  UF  GS  RT ~  separat  UF  GS	Space experiment particle accelera- spacelab 1 payload that experiments on rth's ionosphere and magnetosphere. or Space Exper with Particle Accelera- Space Exper with Particle Accelerators payloads SEPAC (payload) caccelerators particle accelerators sparticle accelerators Spacelab  sed flow flow separation fluid flow viscous flow boundary layer flow separated flow separated flow conical flow Crocco-Lee theory flow distribution forward facing steps reattached flow	flotation flushing foaming fractionation fracturing homogenizing ion exchanging ion extraction ion stripping isolation leaching materials recovery melting mixing osmosis percolation phase separation (materials) polarization (charge separation) precipitation (chemistry) purging purification radiochemical separation recrystallization refining removal scrapers separated flow	washers (spacers) windows (apertures)  septum RT mediastinum membranes ∞ partitions  sequencing RT consecutive events coordination critical path method interruption ∞ operations operations research packet switching Petri nets planning priorities ranking scheduling sequential control switching switching theory turnaround (STS)  sequential analysis GS statistical analysis
tors. A Sthe Ear Used for tors.  UF  GS  RT  separat  UF  GS  RT  RT	Space experiment particle accelera- spacelab 1 payload that experiments on rth's ionosphere and magnetosphere. or Space Exper with Particle Accelera- Space Exper with Particle Accelerators payloads SEPAC (payload) caccelerators particle accelerators spacelab sed flow flow separation fluid flow soundary layer flow separated flow separated flow separated flow crocco-Lee theory flow characteristics flow distribution forward facing steps	flotation flushing foaming fractionation fracturing homogenizing ion exchanging ion extraction ion stripping isolation leaching materials recovery melting mixing osmosis percolation phase separation (materials) polarization (charge separation) precipitation purging purification radiochemical separation refining removal scrapers	washers (spacers) windows (apertures)  septum RT mediastinum membranes ∞ partitions  sequencing RT consecutive events coordination critical path method interruption ∞ operations operations research packet switching Petri nets planning priorities ranking scheduling sequential control switching theory turnaround (STS)  sequential analysis

### sequential computers

sampling sorting algorithms temporal logic sequential computers GS data processing equipment . computers . . digital computers ... sequential computers sequential control DEF Control by completion of a series of one or more events. automatic control GS sequential control accuracy computer programming consecutive events data flow analysis numerical control sequencing Serbska Republic (added June 1996) nations Serbska Republic Bosnia and Herzegovina Europe Yugoslavia sergeant missiles GS missiles . surface to surface missiles . sergeant missiles Juno 1 launch vehicle Juno 2 launch vehicle Jupiter C rocket vehicle Little Joe 2 launch vehicle solid propellant rocket engines sergenium GS chemical elements . actinide series . . transuranium elements . . . sergenium . nuclides . . isotopes . . . radioactive isotopes . . . transuranium elements . sergenium metals . actinide series . . transuranium elements . . . sergenium series (mathematics) analysis (mathematics) . calculus series (mathematics) . . asymptotic series . . Campbell-Hausdorff series cosine series Fourier series . Pade approximation . power series . Taylor series . MacLaurin series . progressions ... Prony series . sine series . real variables . . series (mathematics) asymptotic series Campbell-Hausdorff series ... cosine series Fourier series ... Pade approximation ... power series . . . . Taylor series . . MacLaurin series . . . progressions ... Prony series Abel function Chebyshev approximation divergence form factors

Fourier-Bessel transformations

function space

functional analysis Gibbs phenomenon infinity series expansion sums

series expansion

DEF In mathematics, a divergent series of terms the sum of which is asymptotic or ascend-

ĞS. expansion

series expansion asymptotic series divergence mathematics series (mathematics)

serotonin

drugs

. vasoconstrictor drugs

. serotonin organic compounds . amines . . tryptamines . . . serotonin . cyclic compounds

. . heterocyclic compounds . . . indoles

.... tryptamines . . . . serotonin

serpentine

serratia

ĠS minerals . serpentine asbestos chromites rocks

soils

microorganisms GS . bacteria

serratia

SERT 1 spacecraft

electric propulsion electric rocket engines engine tests space electric rocket tests spacecraft

SERT 2 spacecraft

RT electric propulsion electric rocket engines engine tests space electric rocket tests ∞ spacecraft

SERT (rocket tests)

USE space electric rocket tests

serums

GS serums blood serum inoculum antiserums ∞ fluids proteins

service life

machine life GS life (durability) service life accelerated life tests ∞ equipment fatigue life maintenance retirement for cause

Service Module (ISS)

(added March 1999)

DEF Primary Russian component of the International Space Station providing an early station living quarters and life support system functions to all early elements. Also provides propulsive attitude control and reboost capability for the early station.

systems health monitoring

Zvezda Service Module UF

GS modules . space station modules Service Module (ISS) International Space Station life support systems

service modules

GS modules

. service modules

. . Multi-Purpose Logistics Modules spacecraft components

service modules

Multi-Purpose Logistics Modules

Apollo spacecraft command modules spacecraft docking modules spacecraft modules

service oriented architecture

(added May 2007)

DEF A paradigm for organizing and utilizing loosely coupled, platform-independent, distributed capabilities that may be under the control of different ownership domains. The set of components comprising the architecture can be invoked and their interface descriptions can be published and discovered.

architecture (computers)
. service oriented architecture GS

computer networks computer systems design

distributed processing web services

services

GS services

. medical services . meteorological services web services

RT ∞ food

government procurement Internet resources inventory management logistics logistics management materials handling personnel procurement procurement management

products site selection support systems transportation

utilities

servoamplifiers

GS amplifiers . servoamplifiers control equipment

servoamplifiers controllers

. servomechanisms . servoamplifiers

feedback amplifiers fly by tube control servocontrol

servocontrol

servostability control aeroservoelasticity aircraft hydraulic systems automatic control ∞ control control moment gyroscopes control theory digital command systems feedback control hydraulic equipment

manipulators manual control off-on control pneumatic equipment proportional control remote control rocket engine control servoamplifiers servomechanisms servomotors stepping motors turbojet engine control

	visual control		Lebesgue theorem		garbage
oori (om	echanisms		Orlicz space		human wastes
	Control systems incorporating feed-	000	permutations space		metabolic wastes sanitation
	which one or more of the system signals		subdivisions		sewage
	nt mechanical motion.		subgroups		waste disposal
GS	controllers	∞	theories		wastes
	. servomechanisms	CETI			
	servoamplifiers servomotors	<i>SETI</i> USE	Project SETI	sewing	
RT	active control	OOL	1 Toject OETI	RT	binding
	actuators	setting		٥	∘ joining needles
	aircraft hydraulic systems	SN	(USE OF A MORE SPECIFIC TERM IS		weaving
	automatic control		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		
	automatic control valves	RT	adjusting	sex	
	∘ automation ∘ control		coagulation	RT •	∘ drives
	control moment gyroscopes		curing		females
	electric motors		hardening (materials) polymerization		males
	feedback control		positioning		sex factor zygotes
	hydraulic equipment		solidification		zygotoo
	pneumatic equipment			sex fac	tor
	radar equipment remote control	settling RT	accumulations	RT	females
	robots	nı	agglomeration		males
	self alignment		agitation		physiological factors
	servocontrol		beneficiation		psychological factors
	stepping motors		coagulation		sex sex glands
	tactile sensors (robotics)		coalescing		Sex giarius
	torque sensors (robotics)		concentrating	sex gla	nde
servom	otors		crystallization deposition	GS	anatomy
UF	Magnesyn (trademark)		effluents	-	. genitourinary system
	Selsyns (trademark)		flocculating		reproductive systems
	servos		flotation		sex glands
GS	controllers		particle motion		gonads
	. servomechanisms servomotors		precipitation (chemistry)		ovaries testes
	motors		processing separation		prostate gland
	. servomotors	~	size separation		glands (anatomy)
RT	actuators		Stokes law (fluid mechanics)		sex glands
	amplidynes		subsidence		gonads
	automatic control		water treatment		ovaries
	electric motors heliostats	cotuno			testes
0	orotating electrical machines	setups RT	machining	RT	prostate gland estrogens
	sensors	• • • • • • • • • • • • • • • • • • • •	tooling		reproduction (biology)
	servocontrol		3		sex factor
	slewing		Storms Observing Satellite		
	synchronizers	USE	StormSat satellite	sextant	s
	torque motors	sewage		DEF	Double reflecting instruments for mea-
servos		GS	wastes		angles, primarily altitudes of celestial
USE	servomotors		. sewage	bodies. GS	measuring instruments
		RT	activated sludge	GS	. optical measuring instruments
servosta	ability control		effluents		sextants
USE	servocontrol		environment effects		optical equipment
SES			human wastes liquid wastes		. optical measuring instruments
USE	surface effect ships		metabolic wastes	DT	sextants
002	carrage encot empe		organic wastes (fuel conversion)	RT	navigation aids position indicators
SES (S	huttle)		sewers		stadimeters
USE	Shuttle Engineering Simulator		solid wastes		theodolites
			waste disposal		transits
set SN	(EXCLUDES SET THEORY)		water treatment		
GS	mechanical properties	sewage	treatment	Seyche	
	set	GS	management		ed February 1989)
RT	deformation		. waste management	GS	landforms
	shear properties		waste treatment		. islands <b>Seychelles</b>
aat tha	OW.	DT	sewage treatment		nations
set theo UF	subsets (mathematics)	RT	aerobes anaerobes		. Seychelles
GS	mathematical logic		chemical sterilization	RT	Africa
	. set theory		filtration		Indian Ocean
	Borel sets		Modular Integrated Utility System		
	equivalence		purification		galaxies
ОΤ	threshold logic		sediments	GS	celestial bodies
RT	Boolean algebra branching (mathematics)		sludge		. galaxies active galaxies
	combinatorial analysis	000	treatment waste disposal		Seyfert galaxies
0	oconjunction			RT	active galactic nuclei
	Fibonacci numbers	sewers			blazars
	fractals	DEF	Networks of pipelines for the transpor-		galactic nuclei
	fuzzy sets		metabolic and/or industrial wastes for		infrared radiation
	fuzzy systems graph theory	disposal GS	pipelines		line spectra luminous intensity
	homotropy	GO	. sewers		Markarian galaxies
	hyperplanes	RT	drainage		spiral galaxies
	lattices (mathematics)		effluents		stellar spectra

	ultraviolet radiation		shadowgraph photography		shale oil
SFAR		ОТ	Schlieren photography	RT	fuel oils
USE	sound fixing and ranging	RI	black and white photography		fuels
OOL	South fixing and ranging		color photography flow visualization		gasoline hydrocarbon fuels
sferics			wind tunnel models		kerogen
USE	atmospherics		wind turner models		kerosene
		shadow	vgraphs		lubricating oils
SGEMF		USE	shadowgraph photography		paraffins
USE	system generated electromagnetic				retort processing
	pulses	shadov			
SGML		DEF	Darknesses in regions, caused by ob-	shales	
	document markup languages		ns between the source of light and the		Fine grained detrital sedimentary
	33	regions GS		rocks, to	ormed by the consolidation (especially
	stronomy)	as	. lunar shadow		pression) of clay, silt, or mud. They are
	ed January 2000)		. penumbras		erized by finely laminated structures, npart a fissility approximately parallel to
USE	soft gamma repeaters	RT	•		ding, along which rocks break readily
SGR (n	uclear reactors)		clouds (meteorology)		layers and are commonly most con-
	sodium graphite reactors		darkness		s on weathered surfaces. They are char-
	3. ap		illuminating	acterize	d by an appreciable content of clay
SH way	res		light (visible radiation)		s and detrital quartz; thinly laminated or
	ed September 1988)		night		aystones, siltstones, or mudstones.
	horizontally polarized shear waves		self shadowing	GS	rocks
GS	elastic waves		umbras		. sedimentary rocks
	. S waves	shafts	(machine elements)	рт	shales
RT	SH waves nondestructive tests	UF		R I	boreholes clays
KI.	seismic waves	0.	journals (shafts)		Earth resources
	transverse waves		trunnions		minerals
	ultrasonic tests	GS	shafts (machine elements)		soils
۰	• waves		. rotating shafts		555
			turboshafts	shallow	shell equations
	elicopter	RT		RT	end plates
UF	HSS-2 helicopter		bearings	~	o equations
	Sea King helicopter		bushings ∞ journals		pressure vessels
00	Sikorsky HSS-2 helicopter		∞ Journals ∞ Ioading		stress analysis
GS	antisubmarine warfare aircraft	`	loads (forces)		
	. SH-3 helicopter Sikorsky aircraft		mandrels	shallow	
	. SH-3 helicopter		mechanical drives	GS	shells (structural forms) . shallow shells
	transport aircraft		packings (seals)	RT	critical loading
	SH-3 helicopter		pintles		shell stability
	V/STOL aircraft		pivots		shell theory
	. rotary wing aircraft		rotating cylinders		,
	helicopters		spindles		-
			•	shallow	water example of the state of t
	military helicopters		supports		water water
DT	military helicopters SH-3 helicopter		supports torque	GS	water . shallow water
RT	military helicopters SH-3 helicopter S-61 helicopter		supports torque transmissions (machine elements)	GS	water . shallow water cnoidal waves
RT	military helicopters SH-3 helicopter		supports torque	GS	water . shallow water cnoidal waves fisheries
	military helicopters SH-3 helicopter S-61 helicopter		supports torque transmissions (machine elements) vehicle wheels	GS	water . shallow water cnoidal waves fisheries oceanography
SH-4 he	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter	shaker	supports torque transmissions (machine elements) vehicle wheels wheels	GS	water . shallow water cnoidal waves fisheries oceanography oceans
SH-4 he	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter		supports torque transmissions (machine elements) vehicle wheels wheels	GS	water . shallow water cnoidal waves fisheries oceanography oceans reefs
SH-4 he	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter elicopter antisubmarine warfare aircraft . SH-4 helicopter Sikorsky aircraft		supports torque transmissions (machine elements) vehicle wheels wheels s classifiers mixers	GS	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas
SH-4 he	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter elicopter antisubmarine warfare aircraft . SH-4 helicopter Sikorsky aircraft . SH-4 helicopter		supports torque transmissions (machine elements) vehicle wheels wheels s classifiers mixers separators	GS	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines
SH-4 he	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter  elicopter antisubmarine warfare aircraft . SH-4 helicopter Sikorsky aircraft . SH-4 helicopter transport aircraft		supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking	GS	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography
SH-4 he	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter elicopter antisubmarine warfare aircraft . SH-4 helicopter Sikorsky aircraft . SH-4 helicopter transport aircraft . SH-4 helicopter transport aircraft . SH-4 helicopter		supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves	GS	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines
SH-4 he	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter  SH-4 helicopter Sikorsky aircraft . SH-4 helicopter transport aircraft . SH-4 helicopter transport aircraft VSTOL aircraft		supports torque transmissions (machine elements) vehicle wheels wheels s classifiers mixers separators shaking sieves sizing screens	GS	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography
SH-4 he	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter antisubmarine warfare aircraft .SH-4 helicopter Sikorsky aircraft .SH-4 helicopter transport aircraft .SH-4 helicopter transport aircraft .SH-4 helicopter V/STOL aircraft . rotary wing aircraft		supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators	GS RT shanks	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography
SH-4 he	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter slicopter antisubmarine warfare aircraft . SH-4 helicopter Sikorsky aircraft . SH-4 helicopter transport aircraft . SH-4 helicopter V/STOL aircraft . rotary wing aircraft . helicopters		supports torque transmissions (machine elements) vehicle wheels wheels s classifiers mixers separators shaking sieves sizing screens	GS RT shanks USE	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions)
SH-4 he	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter  Slicopter antisubmarine warfare aircraft . SH-4 helicopter Sikorsky aircraft . SH-4 helicopter transport aircraft . SH-4 helicopter transport aircraft . SH-4 helicopter transport aircraft . SH-4 nelicopter //STOL aircraft . rotary wing aircraft . helicopters military helicopters		supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators	GS RT shanks USE Shanno	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions) n information theory
SH-4 ho	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter slicopter antisubmarine warfare aircraft . SH-4 helicopter Sikorsky aircraft . SH-4 helicopter transport aircraft . SH-4 helicopter V/STOL aircraft . rotary wing aircraft . helicopters	RT shakin	supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators	GS RT shanks USE Shanno	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions)
SH-4 ho	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter  SH-4 helicopter  Sikorsky aircraft . SH-4 helicopter  Sikorsky aircraft . SH-4 helicopter  transport aircraft . SH-4 helicopter  V/STOL aircraft . rotary wing aircraft . helicopters military helicopters SH-4 helicopter	RT <b>shakin</b> GS	supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators  g shaking . dithers	GS RT shanks USE Shanno USE	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions) n information theory information theory
SH-4 he GS	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter shicopter antisubmarine warfare aircraft . SH-4 helicopter Sikorsky aircraft . SH-4 helicopter transport aircraft . SH-4 helicopter V/STOL aircraft . rotary wing aircraft . helicopters military helicopters SH-4 helicopter S-61 helicopter SH-3 helicopter	RT shakin	supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators  g shaking . dithers agitation	GS RT shanks USE Shanno USE Shanno	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions) n information theory information theory on-Wiener measure
SH-4 he GS RT Shackle	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter  SH-4 helicopter  Sikorsky aircraft . SH-4 helicopter  Sikorsky aircraft . SH-4 helicopter  transport aircraft . SH-4 helicopter  V/STOL aircraft . rotary wing aircraft . helicopters military helicopters SH-4 helicopter S-61 helicopter SH-3 helicopter  SH-3 helicopter	RT <b>shakin</b> GS	supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators  g shaking dithers agitation buffeting	GS RT shanks USE Shanno USE Shanno	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions) n information theory information theory on-Wiener measure entropy
SH-4 he GS	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter antisubmarine warfare aircraft .SH-4 helicopter Sikorsky aircraft .SH-4 helicopter transport aircraft .SH-4 helicopter transport aircraft .SH-4 helicopter V/STOL aircraft . helicopters military helicopters military helicopter S-61 helicopter SH-3 helicopter Seton bomber attack aircraft	RT <b>shakin</b> GS	supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators g shaking dithers agitation buffeting dispersing	GS RT shanks USE Shanno USE Shanno	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions) n information theory information theory entropy information theory information theory
SH-4 he GS RT Shackle	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter antisubmarine warfare aircraft .SH-4 helicopter Sikorsky aircraft .SH-4 helicopter transport aircraft .SH-4 helicopter transport aircraft .SH-4 helicopter V/STOL aircraft .rotary wing aircraft .helicopters military helicopters SH-4 helicopter SH-3 helicopter SH-3 helicopter SH-3 helicopter seton bomber attack aircraft .bomber aircraft	RT <b>shakin</b> GS	supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators  g shaking . dithers agitation buffeting dispersing epilepsy	GS RT shanks USE Shanno USE Shanno	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions) n information theory information theory on-Wiener measure entropy
SH-4 he GS RT Shackle	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter antisubmarine warfare aircraft . SH-4 helicopter Sikorsky aircraft . SH-4 helicopter transport aircraft . SH-4 helicopter V/STOL aircraft . rotary wing aircraft . helicopters military helicopters SH-4 helicopter SH-3 helicopter	RT <b>shakin</b> GS	supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators g shaking . dithers agitation buffeting dispersing epilepsy flapping	shanks USE Shanno USE Shanno RT	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions) n information theory information theory on-Wiener measure entropy information theory random variables
SH-4 he GS RT Shackle	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter  SH-4 helicopter  SH-4 helicopter Sikorsky aircraft . SH-4 helicopter  Sikorsky aircraft . SH-4 helicopter  transport aircraft . SH-4 helicopter  V/STOL aircraft . rotary wing aircraft . helicopters military helicopter S-61 helicopter SH-3 helicopter  Sth-3 helicopter  Sth-3 helicopter  Sth-3 helicopter  Ston bomber  attack aircraft . bomber aircraft . Shackleton bomber Hawker Siddeley aircraft	RT <b>shakin</b> GS	supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators g shaking . dithers agitation buffeting dispersing epilepsy flapping flutter	shanks USE Shanno USE Shanno RT	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions) m information theory information theory information theory information theory random variables control
SH-4 he GS RT Shackle	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter elicopter antisubmarine warfare aircraft . SH-4 helicopter Sikorsky aircraft . SH-4 helicopter transport aircraft . SH-4 helicopter V/STOL aircraft . rotary wing aircraft . helicopters military helicopters sH-4 helicopter S-61 helicopter SH-3 helicopter etcon bomber attack aircraft . bomber aircraft . Shackleton bomber Hawker Siddeley aircraft . Shackleton bomber	shakin GS RT	supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators  g shaking dithers agitation buffeting dispersing epilepsy flapping flutter mixing	shanks USE Shanno USE Shanno RT	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions) n information theory information theory on-Wiener measure entropy information theory random variables
SH-4 he GS RT Shackle	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter antisubmarine warfare aircraft .SH-4 helicopter Sikorsky aircraft .SH-4 helicopter transport aircraft .SH-4 helicopter V/STOL aircraft .rotary wing aircraft .helicopters military helicopter S-61 helicopter SH-3 helicopter SH-3 helicopter SH-3 helicopter SH-3 helicopter SH-3 helicopter Attack aircraft . Shackleton bomber Hawker Siddeley aircraft .Shackleton bomber monoplanes	shakin GS RT	supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators  g shaking dithers agitation buffeting dispersing epilepsy flapping flutter mixing separation	shanks USE Shanno USE Shanno RT	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions) n information theory information theory information theory on-Wiener measure entropy information theory random variables control The control of large flexible platforms
SH-4 he GS RT Shackle	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter elicopter antisubmarine warfare aircraft . SH-4 helicopter Sikorsky aircraft . SH-4 helicopter transport aircraft . SH-4 helicopter V/STOL aircraft . rotary wing aircraft . helicopters military helicopters sH-4 helicopter S-61 helicopter SH-3 helicopter etcon bomber attack aircraft . bomber aircraft . Shackleton bomber Hawker Siddeley aircraft . Shackleton bomber	shakin GS RT	supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators  g shaking dithers agitation buffeting dispersing epilepsy flapping flutter mixing	shanks USE Shanno USE Shanno RT Shape of DEF in orbit	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions) n information theory information theory information theory on-Wiener measure entropy information theory random variables control The control of large flexible platforms
SH-4 he GS RT Shackle	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter sH-4 helicopter sikorsky aircraft . SH-4 helicopter Sikorsky aircraft . SH-4 helicopter transport aircraft . SH-4 helicopter transport aircraft . SH-4 helicopter V/STOL aircraft . rotary wing aircraft . helicopters military helicopters SH-4 helicopter S-61 helicopter SH-3 helicopter sth-3 helicopter eton bomber attack aircraft . bomber aircraft . Shackleton bomber Hawker Siddeley aircraft . Shackleton bomber monoplanes . Shackleton bomber	shakin GS RT	supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators  g shaking dithers agitation buffeting dispersing epilepsy flapping flutter mixing separation shakers	shanks USE Shanno USE Shanno RT shape o DEF in orbit cated. RT	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions) n information theory information theory information theory on-Wiener measure entropy information theory random variables control The control of large flexible platforms by means of actuators strategically lo- actuators Columbus space station
SH-4 he GS RT Shackle GS	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter antisubmarine warfare aircraft .SH-4 helicopter Sikorsky aircraft .SH-4 helicopter transport aircraft .SH-4 helicopter transport aircraft . rotary wing aircraft . helicopter V/STOL aircraft . helicopters military helicopters military helicopter S-61 helicopter SH-3 helicopter eton bomber attack aircraft . bomber aircraft . Shackleton bomber Hawker Siddeley aircraft . Shackleton bomber monoplanes . Shackleton bomber	shakin GS RT	supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators g shaking dithers agitation buffeting dispersing epilepsy flapping flutter mixing separation shakers structural vibration suspending (mixing) swirling	shanks USE Shanno USE Shanno RT shape o DEF in orbit cated. RT	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions) n information theory information theory information theory random variables control The control of large flexible platforms by means of actuators strategically lo- actuators Columbus space station control
SH-4 he GS	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter antisubmarine warfare aircraft .SH-4 helicopter Sikorsky aircraft .SH-4 helicopter transport aircraft .SH-4 helicopter V/STOL aircraft .rotary wing aircraft .helicopters military helicopter SH-3 helicopter SH-3 helicopter SH-3 helicopter SH-3 helicopter SH-3 helicopter Hawker Siddeley aircraft .Shackleton bomber Hawker Siddeley aircraft .Shackleton bomber monoplanes .Shackleton bomber louvers shielding	shakin GS RT	supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators  g shaking . dithers agitation buffeting dispersing epilepsy flapping flutter mixing separation shakers structural vibration suspending (mixing)	shanks USE Shanno USE Shanno RT shape o DEF in orbit cated. RT	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions) n information theory information theory information theory random variables control The control of large flexible platforms by means of actuators strategically lo- actuators Columbus space station control theory control control theory
SH-4 he GS	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter antisubmarine warfare aircraft .SH-4 helicopter Sikorsky aircraft .SH-4 helicopter transport aircraft .SH-4 helicopter transport aircraft . rotary wing aircraft . helicopter V/STOL aircraft . helicopters military helicopters military helicopter S-61 helicopter SH-3 helicopter eton bomber attack aircraft . bomber aircraft . Shackleton bomber Hawker Siddeley aircraft . Shackleton bomber monoplanes . Shackleton bomber	shakin GS RT	supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators  g shaking dispersing epilepsy flapping flutter mixing separation shakers structural vibration suspending (mixing) swirling vibration	shanks USE Shanno USE Shanno RT shape o DEF in orbit cated. RT	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions) In information theory information theory information theory random variables control The control of large flexible platforms by means of actuators strategically lo- actuators Columbus space station control theory flexible spacecraft
SH-4 he GS	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter  SH-4 helicopter  Sikorsky aircraft . SH-4 helicopter Sikorsky aircraft . SH-4 helicopter transport aircraft . SH-4 helicopter V/STOL aircraft . helicopter V/STOL aircraft . helicopters military helicopters military helicopter SH-3 helicopter Shackleton bomber Hawker Siddeley aircraft . Shackleton bomber monoplanes . Shackleton bomber	shaking GS RT	supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators  g shaking dithers agitation buffeting dispersing epilepsy flapping flutter mixing separation shakers structural vibration suspending (mixing) swirling vibration	shanks USE Shanno USE Shanno RT shape o DEF in orbit cated. RT	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions) n information theory information theory information theory random variables control  The control of large flexible platforms by means of actuators strategically lo- actuators Columbus space station control theory flexible spacecraft large space structures
SH-4 he GS RT Shackle GS shades RT	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter antisubmarine warfare aircraft .SH-4 helicopter Sikorsky aircraft .SH-4 helicopter transport aircraft .SH-4 helicopter V/STOL aircraft . helicopters military helicopters military helicopter S-61 helicopter SH-3 helicopter SH-3 helicopter SH-3 helicopter eton bomber attack aircraft . Shackleton bomber Hawker Siddeley aircraft . Shackleton bomber monoplanes . Shackleton bomber louvers shielding shutters	shakin GS RT	supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators g shaking dithers agitation buffeting dispersing epilepsy flapping flutter mixing separation shakers structural vibration suspending (mixing) swirling vibration  bil fuels	shanks USE Shanno USE Shanno RT shape o DEF in orbit cated. RT	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions) n information theory information theory information theory on-Wiener measure entropy information theory random variables control The control of large flexible platforms by means of actuators strategically lo- actuators Columbus space station control control theory flexible spacecraft large space structures space platforms
SH-4 he GS  RT  Shackle GS  shades RT  shadow DEF	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter antisubmarine warfare aircraft .SH-4 helicopter Sikorsky aircraft .SH-4 helicopter transport aircraft .SH-4 helicopter V/STOL aircraft .rotary wing aircraft .helicopters military helicopter SH-3 helicopter SH-3 helicopter SH-3 helicopter SH-3 helicopter Hawker Siddeley aircraft .Shackleton bomber Houvers Shielding shutters  Veraph photography Photography in which steep density	shaking GS RT	supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators  g shaking dithers agitation buffeting dispersing epilepsy flapping flutter mixing separation shakers structural vibration suspending (mixing) swirling vibration  bil fuels chemical fuels	shanks USE Shanno USE Shanno RT shape o DEF in orbit cated. RT	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions) n information theory information theory information theory random variables control  The control of large flexible platforms by means of actuators strategically lo- actuators Columbus space station control theory flexible spacecraft large space structures
SH-4 he GS  RT  Shackle GS  shades RT  shadow DEF gradient	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter SH-4 helicopter SH-4 helicopter Sikorsky aircraft . SH-4 helicopter Sikorsky aircraft . SH-4 helicopter transport aircraft . SH-4 helicopter V/STOL aircraft . rotary wing aircraft . helicopters military helicopter S-61 helicopter SH-3 helicopter SH-3 helicopter Sh-3 helicopter Hawker Siddeley aircraft . Shackleton bomber Hawker Siddeley aircraft . Shackleton bomber monoplanes . Shackleton bomber louvers shielding shutters rgraph photography Photography in which steep density is in the flow about a body are made	shaking GS RT	supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators  g shaking dithers agitation buffeting dispersing epilepsy flapping flutter mixing separation shakers structural vibration suspending (mixing) swirling vibration  bil fuels chemical fuels . hydrocarbon fuels	shanks USE Shanno RT  shape o DEF in orbit cated. RT	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions) In information theory information theory information theory random variables control The control of large flexible platforms by means of actuators strategically lo- actuators Columbus space station control control theory flexible spacecraft large space structures space platforms spacecraft control
SH-4 he GS  RT  Shackle GS  shades RT  shadow DEF gradien'tvisible, to	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter SH-4 helicopter SH-4 helicopter Sikorsky aircraft . SH-4 helicopter Sikorsky aircraft . SH-4 helicopter transport aircraft . SH-4 helicopter V/STOL aircraft . helicopter V/STOL aircraft . helicopters military helicopters military helicopter SH-3 helicopter Shackleton bomber Hawker Siddeley aircraft . Shackleton bomber monoplanes . Shackleton bomber  louvers shielding shutters ygraph photography Photography in which steep density is in the flow about a body are made the body itself being presented in silhou-	shaking GS RT	supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators  g shaking dithers agitation buffeting dispersing epilepsy flapping flutter mixing separation shakers structural vibration suspending (mixing) swirling vibration  bil fuels chemical fuels	shanks USE Shanno USE Shanno RT  shape of DEF in orbit cated. RT	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions) in information theory information theory information theory information theory random variables  control The control of large flexible platforms by means of actuators strategically lo- actuators Columbus space station control theory flexible spacecraft large space structures space platforms spacecraft control functions
SH-4 he GS  RT  Shackle GS  shades RT  shadow DEF gradient visible, tette. Us	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter SH-4 helicopter SH-4 helicopter Sikorsky aircraft . SH-4 helicopter Sikorsky aircraft . SH-4 helicopter transport aircraft . SH-4 helicopter V/STOL aircraft . rotary wing aircraft . helicopters military helicopter S-61 helicopter SH-3 helicopter SH-3 helicopter Sh-3 helicopter Hawker Siddeley aircraft . Shackleton bomber Hawker Siddeley aircraft . Shackleton bomber monoplanes . Shackleton bomber louvers shielding shutters rgraph photography Photography in which steep density is in the flow about a body are made	shaking GS RT	supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators  g shaking . dithers agitation buffeting dispersing epilepsy flapping flutter mixing separation shakers structural vibration suspending (mixing) swirling vibration  bil fuels . chemical fuels hydrocarbon fuels fossil fuels	shanks USE Shanno USE Shanno RT  shape o DEF in orbit cated. RT	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions) In information theory information theory information theory random variables control The control of large flexible platforms by means of actuators strategically lo- actuators Columbus space station control control theory flexible spacecraft large space structures space platforms spacecraft control
SH-4 he GS  RT  Shackle GS  shades RT  shadow DEF gradient visible, tette. Us	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter antisubmarine warfare aircraft . SH-4 helicopter Sikorsky aircraft . SH-4 helicopter transport aircraft . SH-4 helicopter V/STOL aircraft . rotary wing aircraft . helicopters military helicopters sH-4 helicopter SH-3 helicopter  Shackleton bomber attack aircraft . Shackleton bomber Hawker Siddeley aircraft . Shackleton bomber Hawker Siddeley aircraft . Shackleton bomber Houvers shielding shutters  ygraph photography Photography in which steep density is in the flow about a body are made the body itself being presented in silhou- eld for shadowgraphs	shaking GS RT	supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators  g shaking . dithers agitation buffeting dispersing epilepsy flapping flutter mixing separation shakers structural vibration suspending (mixing) swirling vibration  bil fuels . chemical fuels . hydrocarbon fuels fossil fuels fossil fuels shale oil	shanks USE Shanno USE Shanno RT  shape o DEF in orbit cated. RT	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions) In information theory information theory information theory information theory random variables control The control of large flexible platforms by means of actuators strategically lo- actuators Columbus space station control theory flexible spacecraft large space structures space platforms spacecraft control functions ded July 1992) functions (mathematics) . shape functions
SH-4 he GS  RT  Shackle GS  shades RT  shadow DEF gradient visible, tette. Us owgraph UF	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter SH-4 helicopter SH-4 helicopter Sikorsky aircraft . SH-4 helicopter Sikorsky aircraft . SH-4 helicopter transport aircraft . SH-4 helicopter V/STOL aircraft . rotary wing aircraft . helicopters military helicopter S-61 helicopter SH-3 helicopter Abackleton bomber Hawker Siddeley aircraft . Shackleton bomber Hawker Siddeley aircraft . Shackleton bomber Honoplanes . Shackleton bomber  Iouvers shielding shutters  Vgraph photography Photography in which steep density is in the flow about a body are made the body itself being presented in silhou- tied for shadowgraphs shadowgraphs spark shadowgraph	shaking GS RT	supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators  g shaking . dithers agitation buffeting dispersing epilepsy flapping flutter mixing separation shakers structural vibration suspending (mixing) swirling vibration  bil fuels . chemical fuels fossil fuels shale oil oils . shale oil resources	shanks USE Shanno USE Shanno RT  shape o DEF in orbit cated. RT	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions) In information theory information theory information theory information theory random variables control The control of large flexible platforms by means of actuators strategically lo- actuators Columbus space station control theory flexible spacecraft large space structures space platforms spacecraft control cunctions ed July 1992) functions (mathematics) . shape functions finite element method
SH-4 he GS  RT  Shackle GS  shades RT  shadow DEF gradien' visible, i, ette. Us owgrapl	military helicopters SH-3 helicopter S-61 helicopter SH-4 helicopter antisubmarine warfare aircraft . SH-4 helicopter Sikorsky aircraft . SH-4 helicopter transport aircraft . SH-4 helicopter V/STOL aircraft . rotary wing aircraft . helicopters military helicopters sH-4 helicopter SH-3 helicopter  Shackleton bomber attack aircraft . Shackleton bomber Hawker Siddeley aircraft . Shackleton bomber Hawker Siddeley aircraft . Shackleton bomber Houvers shielding shutters  ygraph photography Photography in which steep density is in the flow about a body are made the body itself being presented in silhou- eld for shadowgraphs	shaking GS RT	supports torque transmissions (machine elements) vehicle wheels wheels  s classifiers mixers separators shaking sieves sizing screens vertical motion simulators vibration simulators  g shaking dithers agitation buffeting dispersing epilepsy flapping flutter mixing separation shakers structural vibration suspending (mixing) swirling vibration  bil fuels chemical fuels hydrocarbon fuels shale oil oils shale oil	shanks USE Shanno USE Shanno RT  shape of ladded GS	water . shallow water cnoidal waves fisheries oceanography oceans reefs seas shorelines topography water depth  joints (junctions) In information theory information theory information theory information theory random variables control The control of large flexible platforms by means of actuators strategically lo- actuators Columbus space station control theory flexible spacecraft large space structures space platforms spacecraft control functions ded July 1992) functions (mathematics) . shape functions

structural analysis oblate spheroids Kolmogorov theory planforms Krook equation shape memory alloys profiles mixing length flow theory Martensitic alloys (titanium-nickel) profilometers plastic flow which exhibit shape recovery characteristics by prolateness Richardson number stress-induced transformation and reorientation. surface geometry stratified flow Reverse transformation during heating restores symmetry the original grain structure of the high temperatopology shear layers ture phase. Chapman shear layer GS alloys sharks RT boundary layers shape memory alloys GS animals Earth ionosphere . nitinol alloys . vertebrates layers ferroelastic materials . . fishes mixing layers (fluids) . shape memory alloys . . . sharks riblets . nitinol alloys screech tones sharp leading edges ferroelasticity shock layers microstructure GS edges shock wave control nickel alloys leading edges ∞ transition layers phase transformations . sharp leading edges plastic memory RT airfoils shear properties forebodies GS mechanical properties smart materials trailing edges stress-strain diagrams shear properties temperature effects . . shear strength sharpness titanium alloys creep properties (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) ductility transition metals fatigue (materials) shape optimization Hookes law clarity (added February 2001) hysteresis contrast DEF Process of, or techniques for, deterimpact strength precision mining values of shape design variables that modulus of elasticity slender bodies minimize or maximize a selected object function ∞ properties while satisfying limiting constraints. resilience shatter cones GS optimization Distinctively striated conical rock fragset . design optimization ments along which fracturing has occurred, stress relaxation . . shape optimization ranging in length from less than a centimeter to stresses aircraft design several meters, and generally found in nested or stress-strain diagrams airfoil profiles composite groups in rocks of cryptoexplosion temperature inversions ∞ design structures and believed to be formed by shock toughness design analysis waves generated by meteorite impact. fineness ratio GS cones shear strain DEF The tangent of the angular change, sensitivity analysis . shatter cones shape functions due to force, between two lines originally perrocks structural analysis shatter cones pendicular to each other through a point in a structural design carbonaceous rocks body mechanical properties structural design criteria cometary collisions crustal fractures Mindlin plates shaped charges formations structural strain DEF An explosive device configured so that geology torsional vibration its energy can be controlled in one direction. geomorphology GS explosive devices meteorite collisions shear strength . shaped charges meteorite craters DEF The maximum shear stress which a material is capable of sustaining. Shear strength ammunition sedimentary rocks bombs (ordnance) shock loads is calculated from the maximum load during a explosive forming shear or torsion test and is based on the original explosives dimensions of the cross section of the specistructural properties (geology) projectiles men. shattering torpedoes GS mechanical properties warheads USE fragmentation . shear properties weapons shear strength Shawnee helicopter compressive strength CH-21 helicopter shapers USE fiber strength GS tools high strength ∞ shear . machine tools interfacial energy (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN . shapers ∞ strength grinding machines tensile strength milling machines RT dilatational waves shearing shapes DEF The stress component tangential to the shears ÚF curved surfaces plane on which the forces act. Used for shear form fatigue and shearing stress. shear creep GS shapes shear fatigue mechanical properties GS . convexity shearing stress . creep properties . ellipticity stresses . shear creep flatness plastic deformation . shear stress . line shape . torsional stress tensile creep . ogee shape interlaminar stress rosette shapes mechanical properties shear disturbances . T shape shearography USE S waves asymmetry transverse loads concavity shear fatique contour sensors USE shear stress shear waves contours USE S waves corners shear flow shearing ∞ cross sections GS fluid flow crystal morphology shear flow cutting GS coaxial flow shearing curvature

core flow

grazing flow

∞ flow

creep properties

curved panels

geoids

aeometry

morphology

blanking (cutting)

cold working

failure modes

failure

# shearography

	hot working		current sheets		. elastic shells
	loads (forces)		elastic sheets		. fluid filled shells
	metal cutting		fabrics		liquid filled shells
	metal working		flat plates		. hemispherical shells
	∞ separation		laminates		. metal shells
0	∞ shear		membrane structures		. orthotropic shells
	shears		membranes		. perforated shells
	stamping		metal foils		. plastic shells
	structural strain		metal sheets		. reinforced shells
			multilayer insulation		. shallow shells
shearin	g stress		neutral sheets		
	shear stress				. spherical shells
USL	Sileal Stress		panels		spherical caps
choaro	aranhy		papers		. thin walled shells
shearo			polymeric films		. toroidal shells
	ed February 1996)		sheet molding compounds	RT	aircraft structures
	An interferomic method that provides		thick plates		arches
whole f	ield observation of derivatives of small		thin plates		bays (structural units)
surface	displacement and hence, strain.		vortex sheets	00	capsules
GS	interferometry		vortex streets		clamped structures
	. shearography		webs (sheets)		coverings
RT	displacement measurement		webs (sileets)		
	nondestructive tests	ahall a	d		cowlings
	shear stress	shell a			enclosures
		GS	electrodes		fairings
	strain measurement		. anodes		housings
	stress measurement		shell anodes		hulls (structures)
		RT	heat measurement		isotensoid structures
shears					membrane structures
GS	cutters	shell q	alaxies		membranes
	. shears		led March 1991)		
	tools		celestial bodies		monocoque structures
	. shears	ao			nacelles
RT	machine tools		. galaxies		pressure vessel design
пі			shell galaxies		protuberances
	saws	RI	elliptical galaxies		rocket engine cases
٥	∞ shear_		galactic structure		skin (structural member)
	shearing		interacting galaxies		walls
sheath	S	shell st	tability		
GS	sheaths	GS	mechanical properties	shelters	3
	. ion sheaths		. dimensional stability	GS	shelters
	. plasma sheaths		structural stability		. lunar shelters
RT o	∞ casing			RT	buildings
	encapsulating		shell stability		civil defense
			stability		
	fairings		. static stability		environmental engineering
	jackets		dimensional stability		habitability
	linings		structural stability		sheds
	protectors		shell stability		Starsite program
	roofs	RT	buckling		survival
	walls	• • • • • • • • • • • • • • • • • • • •	fluid filled shells		
			liquid filled shells		
sheddi	na			shelves	<b>S</b>
RT	ejection		orthotropic shells	SN	(USE OF A MORE SPECIFIC TERM IS
111	molting		plastic shells		RECOMMENDEDCONSULT THE TERMS
	0		reinforced shells		LISTED BELOW)
	peeling		shallow shells	RT	bedrock
	vortex shedding				cases (containers)
		shell s			cliffs
sheds		(ada	led November 1988)		continental shelves
RT	shelters		celestial bodies		racks (frames)
		ao	. stars		reefs
sheep					
GS	animals		early stars		
ao	. vertebrates		hot stars	Shenan	doah Valley (VA)
			B stars		valleys
	mammals		shell stars	ao	•
	sheep		peculiar stars	DT	. Shenandoah Valley (VA)
RT	livestock		shell stars	RT	river basins
	wool	RT	stellar envelopes		Virginia
sheet n	netal	shell th	neory	Chanab	au E anagaratt
USE	metal sheets	RT	perforated shells		ou 5 spacecraft
		111	self consistent fields		ed October 2003)
sheet n	nolding compounds				Chinese manned spacecraft consisting
	ed July 1993)		shallow shells	of a forv	vard orbital module, a re-entry capsule,
	Resin matrix of polymer matrix fiber		∞ theories	and an	aft service module.
				GS	Chinese spacecraft
	sites formed into sheets and used as	shellfis	sh		. Shenzhou 5 spacecraft
	materials for structures.	DEF	Aquatic invertebrate animals having		manned spacecraft
GS	molding materials	shells.			. Shenzhou 5 spacecraft
	. sheet molding compounds	RT	coastal water	DT	
RT	composite materials		marine biology	н	Chinese space program
	composite structures		marine biology marine environments		Long March launch vehicles
	fiber composites				
	graphite-epoxy composites		marine resources		
			mollusks	shergot	
	molds			(adde	ed September 1991)
	plastics	shells	(structural forms)	DEF	Achondritic stony meteorites com-
	polymer matrix composites		shells (structural forms)		nainly of pigeonite and maskolynite.
	resin matrix composites		. anisotropic shells	GS	celestial bodies
0	∞ sheets		. circular shells	45	. meteorites
∞ sheets			. conical shells		stony meteorites
SN	(USE OF A MORE SPECIFIC TERM IS		. corrugated shells		achondrites
514	RECOMMENDEDCONSULT THE TERMS		. cylindrical shells		shergottites
	LISTED BELOW)		. domes (structural forms)	RT	chassignites
RT	coatings		radomes		nakhlites

	SNC meteorites		submarines		laser fusion
Sheraoti	ty Nakhla Chassigny meteorites	ship te	rminals		laser outputs Nova Laser System
	ed March 1998)	ĠS	terminal facilities	0	⇒ systems
USE	SNC meteorites	RT	. ship terminals artificial harbors	shiverir	20
shieldin	na	111	deepwater terminals	GS	shivering
DEF	The arrangement of shields used for		harbors		. dithers
	ticular circumstance; the use of shields.		Marots (ESA) offshore docking	RT	body temperature
GS	shielding . electromagnetic shielding		tanker terminals	shoals	
	. radio frequency shielding		∞ terminals	GS	water
	. electrostatic shielding		wharves	RT	. <b>shoals</b> beaches
	. heat shielding reentry shielding	ship to	shore communication	111	lakes
	. reusable heat shielding	DEF	Communication between a ship at sea		oceanography
	. magnetic shielding		hore station.		oceans
	<ul><li>radiation shielding</li><li>solar radiation shielding</li></ul>	GS	telecommunication . communication		reefs rivers
	. spacecraft shielding		ship to shore communication		seas
RT	ablative nose cones	RT	data transmission		water depth
	absorbers (materials)		radio communication ships	∞ shock	
	armor attenuation		telemetry	SN	(USE OF A MORE SPECIFIC TERM IS
	attenuators				RECOMMENDEDCONSULT THE TERMS LISTED BELOW)
	baffles	<b>ships</b> GS	water vehicles	RT	convulsions
000	barriers blast deflectors	do	. ships		mechanical shock shock (physiology)
	blinds		Advanced Range Instrumentation		shock resistance
	deflectors		Ship aircraft carriers		thermal shock
	diverters		cargo ships	shook (	(physiology)
	enclosures flame deflectors		Savannah nuclear ship		Clinical manifestations of circulatory
	guards (shields)		tanker ships	insufficie	ency, including hypotension, weak pulse,
	housings		nuclear powered ships Savannah nuclear ship		rdia, pallor, and diminished urinary out-
	linings louvers		satellite communications ships	put. RT	human reactions
	manipulators		submarines		human tolerances
	panels		ballistic missile submarines guided missile submarines		physiological effects
	protection protectors		trident submarine	~	physiology ∘ shock
	safety devices		surface effect ships		- SHOOK
∞	screens	DT	SWATH (ship)		absorbers
	shades	RT	amphibious vehicles antiship missiles		Devices for the dissipation of energy modify the response of a mechanical
	suppressors windows (apertures)		antiship warfare		to applied shock.
	windshields		boats	rRT∘	∞ absorbers
-1-:-1-1-	(		harbors hydrofoil craft		absorbers (equipment) cushions
	(geology) bedrock		hydrofoils		damping
002			keels		energy absorption
shift		,	marine transportation ∞ military vehicles		hydraulic equipment
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	`	navy		impact impact acceleration
RT	LISTED BELOW) exchanging		ocean data acquisitions systems		isolators
	frequency shift		propellers		landing gear
	phase shift		research vehicles ship hulls		mechanical shock pneumatic equipment
	shift registers transferring		ship to shore communication		silencers
	liansiening		shipyards		springs (elastic)
shift reg	gisters		surface navigation surface vehicles		suspension systems (vehicles) vibration damping
GS	computer components		∞ transport vehicles		vibration isolators
RT	. shift registers computer storage devices		transportation energy		
	delay lines (computer storage)		underwater vehicles ∞ vessels	shock a	diffusers diffusers
	digital techniques		- 1000010	OOL	shock wave attenuation
000	registers (computers) shift	shipya			Para de Maria
	- Stifft	RT	cargo ships construction		discontinuity discontinuity
	equilibrium flow		enclosures	ao	. shock discontinuity
GS	fluid flow		industrial areas	RT	density distribution
	. gas flow equilibrium flow		industries logistics		wave fronts
	shifting equilibrium flow		maintenance	shock f	fronts
RT	frozen equilibrium flow		oceanography	DEF	Shock waves regarded as the forward
Shillelar	gh missiles	(	∞ ports ships		s of fluid regions having characteristics t from those of the region ahead of the
	missiles		tanker ships		The front sides of shock waves.
	. surface to surface missiles		water vehicles	GS	wave fronts
	antitank missiles Shillelagh missiles	Shive!	aser system	DT	. shock fronts
	Onlinelayii iiiiooneo	DEF	•	HI∘	∞ fronts magnetosheath
ship hu		doped	ED-2 glass) infrared laser system used		wave propagation
GS	hulls (structures)		r driven fusion experiments.		wave scattering
RT	. ship hulls hydrodynamic coefficients	GS	stimulated emission devices . lasers	shock l	heating
	hydrodynamics		high power lasers	GS	heating
	ships	C-T	Shiva laser system		. kinetic heating
	structural design	RT	coherent light		aerodynamic heating

... shock heating

. transient heating

. shock heating

magnetohydrodynamic shear heating plasma heating

#### shock layers

RT ∞ layers

normal shock waves oblique shock waves shear layers stress waves

∞ transition layers

#### shock loads

GS loads (forces)

dynamic loads

. . transient loads ... shock loads

. . . . blast loads RT aerodynamic loads

axial compression loads compression loads

contact loads crustal fractures impact loads

landing loads shatter cones

structural design criteria

#### shock measuring instruments

GS

measuring instruments
. shock measuring instruments

accelerometers pressure gages seismographs strain gages

#### shock resistance

shock resistance GS

. impact resistance earthquake resistance high acceleration

impact mechanical properties

mechanical shock propellant sensitivity

∞ resistance sensitivity

∞ shock thermal shock vibration

#### shock simulators

GS simulators

shock simulators

vertical motion simulators vibration simulators

#### shock spectra

DEF 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 structural vibration

### shock tests

RT drop tests impact tests load tests railroad humping tests ∞ tests vibration tests

#### shock tubes

DEF Relatively long tubes or pipes in which very brief high speed gas flows are produced by wery brief high speed gas nows 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.

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 UF shock diffusers

GS attenuation

. wave attenuation

. . acoustic attenuation

. shock wave attenuation

RT 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  $RT \, \infty \, generators$ magnetic pistons pressure sensors pulse generators wave generation

#### shock wave interaction

GS wave interaction

#### shock wave interaction

Godunov method interactional aerodynamics

∞ interactions

interplanetary shock waves

propagation modes scattering

wave degradation

### shock wave luminescence

GS 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

RT 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

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 accompanied by a marked increase in pressure, density, temperature, and entropy, as occurs, e.g., in supersonic flows about bodies. Used for bow shock waves.

UF 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

RT 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

∞ transition layers transonic flow tsunami waves underwater acoustics underwater communication

∞ waves wedge flow Whitham rule

### Shoemaker-Levy 9 comet

(added June 1994) celestial bodies . comets

Shoemaker-Levy 9 comet

RT cometary collisions

Jupiter (planet)		C-8A augmentor wing aircraft		Surface Radiation Budget project
shoes		Cessna 402B aircraft Mercure aircraft	short v	vave radio transmission
GS clothing	RT	air transportation	GS	transmission
. shoes		∞ aircraft		. electromagnetic wave transmission
RT boots (footwear)		aircraft design		radio transmission
leather		airline operations		short wave radio transmission signal transmission
protective clothing socks		passenger aircraft V/STOL aircraft		radio transmission
333.13		V/OTOE diloran		short wave radio transmission
Shooting Star aircraft	short r	ange ballistic missiles	RT	0 1
USE T-33 aircraft	GS	missiles		wave propagation
shops		. ballistic missiles	shorter	nina
RT maintenance		short range ballistic missiles . surface to surface missiles		reduction
The manner and		short range ballistic missiles		
Shoran	RT	field army ballistic missiles	∞ shot	
DEF A precision electronic position fixing		intermediate range ballistic missiles	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS
system using a pulse transmitter and receiver and two transponder beacons at fixed points.	, ,			LISTED BELOW)
Used for short range navigation.		ange navigation Shoran	RT	
UF short range navigation	USL	Silorati		launching orbital shots
GS navigation	Short S	SC-1 aircraft		pellets
. radio navigation	USE	SC-1 aircraft		shot noise
hyperbolic navigation	Chart C	30 E airerett		shot peening
<b>Shoran</b> RT air navigation		SC-5 aircraft SC-5 aircraft	shot n	oiso
Decca navigation	USL	30-3 anciait		Quantum noise caused by electric cur-
distance measuring equipment	Short S	SC-7 aircraft	rent flu	ctuations attributable to the discrete na-
navigation aids	USE	SC-7 aircraft		charge carriers.
solar compasses	, , ,		GS	electromagnetic interference
shorelines		akeoff & vertical landing aircraft STOVL aircraft		radio frequency interference
RT beaches	USE	STOVE aircraft		electromagnetic noise shot noise
coastal water	short t	akeoff aircraft	RT	Barritt diodes
coasts	UF	STOL aircraft		∞ shot
lakes	GS	V/STOL aircraft		thermal noise
oceanography		. short takeoff aircraft	-14	
oceans rivers		Aladin 2 aircraft Breguet 940 aircraft	shot p	hardening (materials)
shallow water		Breguet 940 aircraft	do	. shot peening
tidal flats		C-8A augmentor wing aircraft		metal finishing
wetlands		C-15 aircraft		. peening
Short Belfast C MK-1 aircraft		C-123 aircraft	D.T.	shot peening
USE <b>SC-5 aircraft</b>		DHC 4 aircraft DHC 5 aircraft	RI	cold working descaling
OOL OO D UNCTUIL		Questol aircraft		fatigue (materials)
short circuit currents		U-10 aircraft		metal working
DEF The steady value of the input alternat-	RT ·	∞ aircraft		∞ shot
ing currents that flow when the output direct		circulation control airfoils		strain hardening
current terminals are short-circuited and rated line alternating voltage is applied to the line		compound helicopters		surface finishing
terminals.		externally blown flaps fan in wing aircraft		work hardening
GS electric current		helicopters	should	ers
. short circuit currents		JATO engines	RT	joints (anatomy)
RT open circuit voltage		jet aircraft		scapula
photovoltaic cells short circuits		jet flaps	∞ showe	re
solar cells		lift fans lifting rotors	SN	(USE OF A MORE SPECIFIC TERM IS
volt-ampere characteristics		∞ military aircraft		RECOMMENDEDCONSULT THE TERMS
·		powered lift aircraft	RT	LISTED BELOW) cosmic ray showers
short circuits		rotary wing aircraft		flood predictions
DEF An abnormal connection of relatively		Siebel aircraft		meteoroid showers
low resistance between two points on a circuit.  The result is a flow of excess (often damaging)		STOVL aircraft ∞ subsonic aircraft		rain
current between these points.	,	takeoff runs		rain forests rainstorms
GS electrical faults		tilt wing aircraft		Tallistoffis
short circuits		vertical takeoff aircraft	shrapn	
RT circuits	•	∞ winged vehicles	RT	3
electric arcs failure	alaant u	vave radiation		fragments
jumpers	SN			projectiles weapons
short circuit currents	GS	electromagnetic radiation		weapons
sneak circuit analysis		. radio waves	shredo	ling
system failures		short wave radiation	GS	comminution
short cracks		microwaves centimeter waves	DT	. shredding
GS fractures (materials)		cosmic microwave background	RT	composting cutting
. cracks		radiation		tearing
short cracks		decimeter waves		· ·
RT crack geometry		microwave emission		missile
crack initiation		millimeter waves submillimeter waves	GS	
crack propagation fatigue life	RT	far infrared radiation		. air to surface missiles Shrike missile
fracture mechanics		high frequencies	RT	
metal fatigue		long wave radiation		
also the distance		monochromatic radiation	shrink	
short haul aircraft GS transport aircraft	•	∞ radiation	RT	casting
GS transport aircraft . short haul aircraft		Surface Meteorology and Solar Energy project		contraction growth
. Short flaur airtrait		Energy project		gi owiii

∞ reduction	. Doppler radar	. motion sickness
sintering	. pulse Doppler radar	
temperature inversions	Shuttle Imaging Radar	SID (ionospheric disturbances)
•	. imaging radar	USE sudden ionospheric disturbances
warpage		OOL Sudden follospheric disturbances
	Shuttle Imaging Radar	21. 2.1.1.
shrouded bodies	. pulse radar	side inlets
USE <b>shrouds</b>	pulse Doppler radar	GS intake systems
	Shuttle Imaging Radar	side inlets
shrouded nozzles	. space based radar	RT air intakes
RT annular nozzles		
	Shuttle Imaging Radar	bypass ratio
nozzle geometry	. synthetic aperture radar	hypersonic inlets
nozzle walls	Shuttle Imaging Radar	inlet airframe configurations
∞ nozzles	RT Earth observations (from space)	nose inlets
shrouded propellers	radar geology	scoops
	radar imagery	supersonic inlets
UF ducted propellers	remote sensing	∞ water intakes
GS propellers	Space Shuttle payloads	
. shrouded propellers		sidebands
RT ducted fans	synthetic arrays	RT ∞ bands
ring wings	Shuttle Mission Simulator	double sideband transmission
thrust augmentation	UF SMS (Shuttle)	selective fading
XV-11A aircraft	GS simulators	single sideband transmission
		g
shrouded turbines	. Shuttle Mission Simulator	sidelobe reduction
GS turbomachinery		
	Shuttle Orbiters	GS attenuation
. turbines	USE Space Shuttle orbiters	. sidelobe reduction
shrouded turbines	OOL Opace on attic orbiters	RT apodization
		horn antennas
shrouds	Shuttle pallet satellites	
UF shrouded bodies	DEF Reusable pallet type structures de-	radar antennas
	signed to be shuttle launched which will act as	radar attenuation
RT coverings		radar reception
ducted bodies	building blocks for larger platforms. Used for	radar reflectors
rigging	SPAS (ESA platforms).	
ngging	UF SPAS (ESA platforms)	radar resolution
-h.unt-	GS artificial satellites	∞ reduction
shunts		sidelobes
USE <b>bypasses</b>	. Shuttle pallet satellites	diddioboo
circuits	RT space shuttles	. 5.1. 1. 1
	!	sidelobes
shutdowns	Chuttle Cunerlightusiaht Tonk	GS distribution (property)
	Shuttle Superlightweight Tank	. radiation distribution
DEF The processes of decreasing engine	(added June 1998)	antenna radiation patterns
thrusts to zero.	USE external tanks	
RT deactivation	propellant tanks	sidelobes
engines	proponant tanto	RT antenna design
		∞ lobes
∞ SCRAM	SI	near fields
	USE International System of Units	
shutters	•	sidelobe reduction
SN (USE OF A MORE SPECIFIC TERM IS	aialan	
RECOMMENDEDCONSULT THE TERMS	sialon	side-looking radar
LISTED BELOW)	DEF Any composition containing silicon,	GS radar
RT blinds	aluminum, oxygen, and nitrogen and usually	
camera shutters	produced by the high-temperature reactions	. synthetic aperture radar
		side-looking radar
louvers	among the ingredients.	RT airborne radar
shades	GS mixtures	change detection
	aiala m	
	. Siaion	imaging radar
Shuttle Avionics Integration Laboratory	. <b>sialon</b>	
Shuttle Avionics Integration Laboratory	RT aluminum	radar imagery
Shuttle Avionics Integration Laboratory USE SAIL project	RT aluminum ceramics	radar imagery
USE SAIL project	RT aluminum	radar imagery radar scanning
	RT aluminum ceramics high temperature	radar imagery
USE SAIL project  Shuttle Boosters	RT aluminum ceramics high temperature nitrogen	radar imagery radar scanning search radar
USE SAIL project	RT aluminum ceramics high temperature nitrogen oxygen	radar imagery radar scanning
USE SAIL project  Shuttle Boosters  USE Space Shuttle Boosters	RT aluminum ceramics high temperature nitrogen	radar imagery radar scanning search radar sidereal time
USE SAIL project  Shuttle Boosters  USE Space Shuttle Boosters  Shuttle Derived Vehicles	RT aluminum ceramics high temperature nitrogen oxygen reaction bonding	radar imagery radar scanning search radar  sidereal time DEF Time based upon the rotation of the
USE SAIL project  Shuttle Boosters USE Space Shuttle Boosters  Shuttle Derived Vehicles DEF New configuration resulting from the	RT aluminum ceramics high temperature nitrogen oxygen reaction bonding refractory materials	radar imagery radar scanning search radar  sidereal time DEF Time based upon the rotation of the Earth relative to the vernal equinox.
USE SAIL project  Shuttle Boosters USE Space Shuttle Boosters  Shuttle Derived Vehicles DEF New configuration resulting from the	RT aluminum ceramics high temperature nitrogen oxygen reaction bonding refractory materials silicon nitrides	radar imagery radar scanning search radar  sidereal time DEF Time based upon the rotation of the Earth relative to the vernal equinox. GS time
USE SAIL project  Shuttle Boosters USE Space Shuttle Boosters  Shuttle Derived Vehicles DEF New configuration resulting from the production and operation of the Space Shuttle.	RT aluminum ceramics high temperature nitrogen oxygen reaction bonding refractory materials	radar imagery radar scanning search radar  sidereal time DEF Time based upon the rotation of the Earth relative to the vernal equinox. GS time . sidereal time
USE SAIL project  Shuttle Boosters USE Space Shuttle Boosters  Shuttle Derived Vehicles  DEF New configuration resulting from the production and operation of the Space Shuttle. Used for SDV.	RT aluminum ceramics high temperature nitrogen oxygen reaction bonding refractory materials silicon nitrides sintering	radar imagery radar scanning search radar  sidereal time DEF Time based upon the rotation of the Earth relative to the vernal equinox. GS time
Shuttle Boosters USE Space Shuttle Boosters USE Space Shuttle Boosters  Shuttle Derived Vehicles DEF New configuration resulting from the production and operation of the Space Shuttle. Used for SDV. UF SDV	RT aluminum ceramics high temperature nitrogen oxygen reaction bonding refractory materials silicon nitrides sintering  SIAM missiles	radar imagery radar scanning search radar  sidereal time DEF Time based upon the rotation of the Earth relative to the vernal equinox. GS time sidereal time RT astronomy
USE SAIL project  Shuttle Boosters USE Space Shuttle Boosters  Shuttle Derived Vehicles DEF New configuration resulting from the production and operation of the Space Shuttle. Used for SDV UF SDV RT Advanced Launch System (STS)	RT aluminum ceramics high temperature nitrogen oxygen reaction bonding refractory materials silicon nitrides sintering	radar imagery radar scanning search radar  sidereal time  DEF Time based upon the rotation of the Earth relative to the vernal equinox. GS time . sidereal time RT astronomy Earth rotation
USE SAIL project  Shuttle Boosters USE Space Shuttle Boosters  Shuttle Derived Vehicles DEF New configuration resulting from the production and operation of the Space Shuttle. Used for SDV. UF SDV RT Advanced Launch System (STS) manned spacecraft	RT aluminum ceramics high temperature nitrogen oxygen reaction bonding refractory materials silicon nitrides sintering  SIAM missiles UF self initiated antiaircraft missiles	radar imagery radar scanning search radar  sidereal time  DEF Time based upon the rotation of the Earth relative to the vernal equinox. GS time . sidereal time  RT astronomy Earth rotation stellar motions
USE SAIL project  Shuttle Boosters USE Space Shuttle Boosters  Shuttle Derived Vehicles DEF New configuration resulting from the production and operation of the Space Shuttle. Used for SDV UF SDV RT Advanced Launch System (STS)	RT aluminum ceramics high temperature nitrogen oxygen reaction bonding refractory materials silicon nitrides sintering  SIAM missiles UF self initiated antiaircraft missiles GS missiles	radar imagery radar scanning search radar  sidereal time  DEF Time based upon the rotation of the Earth relative to the vernal equinox.  GS time . sidereal time  RT astronomy Earth rotation stellar motions time measurement
USE SAIL project  Shuttle Boosters USE Space Shuttle Boosters  Shuttle Derived Vehicles DEF New configuration resulting from the production and operation of the Space Shuttle. Used for SDV. UF SDV RT Advanced Launch System (STS) manned spacecraft Space Shuttle orbiters	RT aluminum ceramics high temperature nitrogen oxygen reaction bonding refractory materials silicon nitrides sintering  SIAM missiles UF self initiated antiaircraft missiles GS missiles . antiaircraft missiles	radar imagery radar scanning search radar  sidereal time  DEF Time based upon the rotation of the Earth relative to the vernal equinox. GS time . sidereal time  RT astronomy Earth rotation stellar motions
USE SAIL project  Shuttle Boosters USE Space Shuttle Boosters  Shuttle Derived Vehicles  DEF New configuration resulting from the production and operation of the Space Shuttle.  Used for SDV.  UF SDV  RT Advanced Launch System (STS)  manned spacecraft  Space Shuttle orbiters  space shuttles	RT aluminum ceramics high temperature nitrogen oxygen reaction bonding refractory materials silicon nitrides sintering  SIAM missiles UF self initiated antiaircraft missiles GS missiles	radar imagery radar scanning search radar  sidereal time  DEF Time based upon the rotation of the Earth relative to the vernal equinox.  GS time . sidereal time  RT astronomy Earth rotation stellar motions time measurement
USE SAIL project  Shuttle Boosters  USE Space Shuttle Boosters  Shuttle Derived Vehicles  DEF New configuration resulting from the production and operation of the Space Shuttle. Used for SDV.  UF SDV  RT Advanced Launch System (STS) manned spacecraft  Space Shuttle orbiters space shuttles  ∞ spacecraft	RT aluminum ceramics high temperature nitrogen oxygen reaction bonding refractory materials silicon nitrides sintering  SIAM missiles UF self initiated antiaircraft missiles GS missiles . antiaircraft missiles	radar imagery radar scanning search radar  sidereal time DEF Time based upon the rotation of the Earth relative to the vernal equinox. GS time . sidereal time RT astronomy Earth rotation stellar motions time measurement units of measurement
USE SAIL project  Shuttle Boosters USE Space Shuttle Boosters  Shuttle Derived Vehicles  DEF New configuration resulting from the production and operation of the Space Shuttle.  Used for SDV.  UF SDV  RT Advanced Launch System (STS)  manned spacecraft  Space Shuttle orbiters  space shuttles	RT aluminum ceramics high temperature nitrogen oxygen reaction bonding refractory materials silicon nitrides sintering  SIAM missiles UF self initiated antiaircraft missiles GS missiles . antiaircraft missiles . SIAM missiles RT air to air missiles	radar imagery radar scanning search radar  sidereal time  DEF Time based upon the rotation of the Earth relative to the vernal equinox. GS time . sidereal time  RT astronomy Earth rotation stellar motions time measurement units of measurement siderite meteorites
USE SAIL project  Shuttle Boosters  USE Space Shuttle Boosters  Shuttle Derived Vehicles  DEF New configuration resulting from the production and operation of the Space Shuttle. Used for SDV.  UF SDV  RT Advanced Launch System (STS) manned spacecraft  Space Shuttle orbiters space shuttles  ∞ spacecraft	RT aluminum ceramics high temperature nitrogen oxygen reaction bonding refractory materials silicon nitrides sintering  SIAM missiles UF self initiated antiaircraft missiles GS missiles . antiaircraft missiles . SIAM missiles . SIAM missiles	radar imagery radar scanning search radar  sidereal time DEF Time based upon the rotation of the Earth relative to the vernal equinox. GS time . sidereal time RT astronomy Earth rotation stellar motions time measurement units of measurement
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USE SAIL project  Shuttle Boosters USE Space Shuttle Boosters  Shuttle Derived Vehicles  DEF New configuration resulting from the production and operation of the Space Shuttle.  Used for SDV.  UF SDV  RT Advanced Launch System (STS) manned spacecraft Space Shuttle orbiters space Shuttle orbiters space shuttles  ∞ spacecraft design  Shuttle Engineering Simulator	RT aluminum ceramics high temperature nitrogen oxygen reaction bonding refractory materials silicon nitrides sintering  SIAM missiles UF self initiated antiaircraft missiles GS missiles . antiaircraft missiles . SIAM missiles RT air to air missiles	radar imagery radar scanning search radar  sidereal time  DEF Time based upon the rotation of the Earth relative to the vernal equinox. GS time . sidereal time  RT astronomy Earth rotation stellar motions time measurement units of measurement siderite meteorites
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Shuttle Boosters USE Space Shuttle Boosters  USE Space Shuttle Boosters  Shuttle Derived Vehicles DEF New configuration resulting from the production and operation of the Space Shuttle. Used for SDV. UF SDV RT Advanced Launch System (STS) manned spacecraft Space Shuttle orbiters space shuttles  ∞ spacecraft design  Shuttle Engineering Simulator DEF Training equipment for crew members in mission operation procedures including vari-	RT aluminum ceramics high temperature nitrogen oxygen reaction bonding refractory materials silicon nitrides sintering  SIAM missiles UF self initiated antiaircraft missiles GS missiles . antiaircraft missiles . SIAM missiles RT air to air missiles antimissile missiles Siberia RT Arctic regions	radar imagery radar scanning search radar  sidereal time  DEF Time based upon the rotation of the Earth relative to the vernal equinox. GS time . sidereal time  RT astronomy Earth rotation stellar motions time measurement units of measurement siderite meteorites USE iron meteorites siderites  DEF A spathic iron ore; an iron carbonate.
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Shuttle Boosters USE Space Shuttle Boosters  Shuttle Derived Vehicles  DEF New configuration resulting from the production and operation of the Space Shuttle. Used for SDV.  UF SDV  RT Advanced Launch System (STS) manned spacecraft Space Shuttle orbiters space shuttles  ⇒ spacecraft design  Shuttle Engineering Simulator  DEF Training equipment for crew members in mission operation procedures including various approach maneuvers, braking, final approach, etc.  UF SES (Shuttle) GS simulators Shuttle Engineering Simulator  RT space shuttles  shuttle glow	RT aluminum ceramics high temperature nitrogen oxygen reaction bonding refractory materials silicon nitrides sintering  SIAM missiles UF self initiated antiaircraft missiles GS missiles . antiaircraft missiles . SIAM missiles RT air to air missiles antimissile missiles Siberia RT Arctic regions Asia U.S.S.R.  SIC (coefficient) USE structural influence coefficients  Sicily GS landforms . islands . Sicily	radar imagery radar scanning search radar  sidereal time  DEF Time based upon the rotation of the Earth relative to the vernal equinox. GS time . sidereal time  RT astronomy Earth rotation stellar motions time measurement units of measurement siderite meteorites  USE iron meteorites  siderites  DEF A spathic iron ore; an iron carbonate. GS carbon compounds . carbonates . siderites iron compounds . siderites iron compounds . siderites
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	Earth mantle geochemistry	RT	Mercury MA-8 flight		telecommunication
	iron	CICMA	0.000000000	sinnal	detectors
	lunar composition		9 computer	UF	signal discriminators
	meteoritic composition	GS	data processing equipment . computers	RT	
	mineralogy		digital computers		autodynes
	minerals		SIGMA computers	•	∞ detectors
	petrography		SIGMA 9 computer		discrimination
	planetary composition				microwave sensors
	trace elements	SIGMA	computers		preamplifiers
		GS	data processing equipment		signal measurement
sides			. computers		sound transducers telecommunication
RT	edges		digital computers		telecommunication
	geometry rims		SIGMA computers	signal o	discriminators
	walls		SIGMA 9 computer	ŬSE	signal detectors
		0:	0-11-		
sideslip		GS	Orionis celestial bodies	•	distortion
RT ·	maneuvers	dS	. stars	GS	
	roll		double stars	RT	. signal distortion intersymbolic interference
	skidding		binary stars	111	radio signals
0	∘ slip		Sigma Orionis		scrambling (communication)
	spacecraft motion		early stars		,
	yaw		hot stars	signal	encoding
oidowoo	a h		B stars	GS	
sidewas USE	backwash		Sigma Orionis		. signal encoding
OOL	buckwasii		peculiar stars		amplitude modulation
Sidewir	nder missiles	RT	Sigma Orionis Orion constellation		quadrature amplitude modulation
GS	missiles	111	stellar systems		frequency modulation feedback frequency modulation
	. air to air missiles		Stellar Systems		FM/PM (modulation)
	Sidewinder missiles	siama-	mesons		frequency shift keying
	. antiaircraft missiles	GS	particles		pulse frequency modulation
	Sidewinder missiles	0.0	. elementary particles		phase modulation
			bosons		FM/PM (modulation)
Siebel a			mesons		phase shift keying
HI∘	o aircraft		vector mesons		binary phase shift keying
	short takeoff aircraft		sigma-mesons		quadrature phase shift keying
Siamon	s 2002 computer		fermions		pulse modulation pulse amplitude modulation
GS	data processing equipment		baryons <b>sigma-mesons</b>		pulse code modulation
ao	. computers		hadrons		delta modulation
	. Siemens 2002 computer		baryons		differential pulse code
	·		sigma-mesons		modulation
Sierra L	_eone		mesons		pulse frequency modulation
GS	nations		vector mesons		pulse time modulation
	. Sierra Leone		sigma-mesons		pulse duration modulation
RT	Africa		. nuclear particles		pulse position modulation
	d		bosons mesons	RT	trellis coding concatenated codes
	Nevada Mountains (CA)		vector mesons	111	digital to analog converters
GS	landforms . mountains		sigma-mesons		pulse frequency modulation telemetry
	Sierra Nevada Mountains (CA)	RT	charged particles		redundancy encoding
RT			eta-mesons		Reed-Solomon codes
					scrambling (communication)
sieves		signal	analysis		telecommunication
GS	separators	GS	data processing		transmitters
	. sieves		. signal analysis		video compression Viterbi decoders
RT	fluid filters		cepstral analysis		voice data processing
	shakers	RI «	∞ analyzing		wavelet analysis
	sizing screens wire cloth		digital radar systems frequency analyzers		,
	Wife Clour		Gabor transformation	signal i	fadeout
sight			phase deviation	USE	signal fading
USE	visual perception		signal measurement	-!1	for all as as
	The state of the s		spectrum analysis	<b>signal</b> UF	
SIGMA	5 computer		wavelet analysis	GS	0
GS	data processing equipment			do	. signal fading
	. computers	signal	analyzers		. Rayleigh fading
	analog computers	GS	measuring instruments		selective fading
	SIGMA 5 computer		. analyzers	RT	acoustic instability
	. digital computers	DT	signal analyzers		atmospheric scattering
	SIGMA 5 computer	RT	analog computers autodynes		attenuation
010111	_		autodynes		diffraction patterns
SIGMA GS	7 manned spacecraft	cional	detection		electromagnetic absorption ground effect (communications)
do	. Mercury spacecraft	GS	detection		radio frequency interference
	SIGMA 7	40	. signal detection		radio scattering
	reentry vehicles		correlation detection		reception diversity
	. recoverable spacecraft	RT	autodynes		signal measurement
	. Mercury spacecraft	c	∞ detectors		smear
	SIGMA 7		discrimination		sound intensity
	soft landing spacecraft		dynamic range	_	
	. Mercury spacecraft		phase detectors		fading rate
	SIGMA 7		preamplifiers	GS	rates (per time)
	space capsules . Mercury spacecraft		radar detection signal measurement	RT	. signal fading rate fading
	SIGMA 7		sound transducers	пІ	selective fading

	sound intensity	. signal reflection	DT	television transmission
cianal 1	flow graphs	RT cepstral analysis spread reflection	RT	audio signals
RT	duality principle	transmission		code division multiplexing message processing
	∞ flow graphs	wave reflection		messages
	network analysis	wave reflection		multiplexing
	Richards theorem	signal stabilization		orthogonal multiplexing theory
	sneak circuit analysis	GS stabilization		packet switching
		. signal stabilization		pulse communication
signal (	generators	RT frequency control		radar attenuation
DEF	Shielded sources of voltage or power,	transmission circuits		radio attenuation
the out	pUt level and frequency of which are			radio scattering
	ed, and usually variable over a range.	signal to noise ratios		sentences
GS	signal generators	DEF Ratios which measure the comprehen-		sound transmission
	. frequency synthesizers	sibility of a data source or transmission link,		syllables
ОТ	. function generators	usually expressed as the root mean square		talking
RT	circuits	signal amplitude divided by the root mean square noise amplitude.		telecommunication
٥	∞ generators	GS ratios		transmission efficiency
	Hall generators oscillators	. signal to noise ratios		transmission rate (communications)
	sirens	RT amplitude distribution analysis		video signals
	solid state devices	attenuation		wireless communication
	sound generators	background noise	cianal-n	rocessing-in-the-element detectors
	subharmonic generators	bit error rate		ed January 2000)
	voltage generators	carrier to noise ratios		infrared detectors
	3 3	channel noise	002	
signal ı	measurement	communication theory	∞ signals	
UF	electronic signal measurement	companding	SN	(USE OF A MORE SPECIFIC TERM IS
RT	electromagnetic measurement	correlation detection	-	RECOMMENDEDCONSULT THE TERMS
	ionospheric propagation	dark current	RT	LISTED BELOW) audio signals
0	∞ measurement	dynamic range	n i	auditory signals
	signal analysis	electromagnetic interference		beacons
	signal detection	electromagnetic noise		bells
	signal detectors	false alarms		chirp signals
	signal fading	image contrast		electric pulses
	signal processing	image enhancement interference immunity		error signals
	signal to noise ratios	low noise		horns
signal ı	mixina	matched filters		magnetic signals
GS	mixing	maximum entropy method		messages
0.0	. signal mixing	∞ noise		pseudorandom sequences
RT	auditory signals	noise propagation		pyrotechnics
	error signals	noise spectra		radio signals
	four-wave mixing	noise threshold		random signals
	magnetic signals	random noise		signal to noise ratios
	radio signals	random signals		sirens
		signal measurement		sound generators
	processing	∞ signals		symbols
GS	1 0	white noise		telecommunication
	signal processing	aloual transmission		time signals video signals
БТ	space-time adaptive processing	signal transmission		visual signals
RT	audio signals	GS transmission		visual stimuli
	companding direction finding	. <b>signal transmission</b> data transmission		viodal dilitali
	discrete cosine transform	automatic picture transmission	signatu	re analysis
	equalizers (circuits)	multiple access		analyzing
	frequency domain analysis	Aloha system		cepstral analysis
	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
۰	∞ processing	access		radar signatures
	signal measurement	time division multiple access		signatures
	smoke detectors	packet transmission		target recognition
	surface acoustic wave devices	Aloha system		
	telemetry	single channel per carrier	signatu	
	time domain analysis	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 . spectral signatures
cianal ı	reception	ionospheric propagation ionospheric F-scatter		microwave signatures
GS	signal reception	propagation	RT	amplitude distribution analysis
ao	. homodyne reception	microwave transmission	111	biomarkers
	. radar reception	multipath transmission		detection
	. radio reception	short wave radio transmission		representations
	. television reception	single sideband transmission		signature analysis
RT	antenna gain	spread spectrum transmission		target recognition
	preamplifiers	transequatorial propagation		video landmark acquisition and
۰	∞ receiving	transhorizon radio propagation		tracking
	sentences	satellite transmission		
	transmission rate (communications)	telemetry	signific	
	vocoders	biotelemetry	RT	confidence limits
		P.A.C.M. telemetry		correlation
	reflection	PCM telemetry		covariance
GS	echoes	radio telemetry		degrees of freedom
	. signal reflection	pulse frequency modulation		finite difference theory
	reflection	telemetry		null hypothesis

	numerical analysis	RT ∝	aircraft		tourmaline
	regression analysis				zeolites
	statistical tests	silanes		RT	akermanite
	teleconnections (meteorology)	GS	hydrogen compounds		amphiboles
oiano (o	umbolo)		. hydrides		disilicides
signs (s	•		silanes		minerals
USE	symbols		chlorosilanes methyl chlorosilanes		silicides
sians a	nd symptoms		silicon compounds		silicon dioxide tetraethyl orthosilicate
UF	symptoms		. silanes		vermiculite
	syndromes		chlorosilanes		verificulte
GS	signs and symptoms		methyl chlorosilanes	silicide	es
	. acquired immunodeficiency	RT	disilicides	GS	silicon compounds
	syndrome		polycarbosilanes		silicides
	. bradycardia		polysilanes		disilicides
	. cough			RT	intermetallics
	. dizziness	silence			silicates
	. dyspnea	RT	noise reduction		
	. edema		transmission loss	silicon	
	. headache . hematuria	ailanaa	_	GS	chemical elements . metalloids
	. kidney stones	silencei RT	attenuators		silicon
	. leukopenia	п	damping		amorphous silicon
	. nausea		inhibitors		porous silicon
	. vertigo		mufflers		silicon isotopes
RT	asphyxia		shock absorbers	RT	float zones
	diseases		squelch circuits		reaction bonding
	hallucinations		suppressors		Schottky diodes
00	indication		zero sound		silicon alloys
	symptomology				•
		silica		silicon	alloys
	-Alin meteorite	USE	silicon dioxide	GS	alloys
GS	celestial bodies				. silicon alloys
	. meteorites	silica g		RT	aluminum alloys
	iron meteorites		A colloidal, highly absorbent silica		germanium alloys
	Sikhote-Alin meteorite		a dehumidifying and dehydrating agent,		iron alloys
Sikkim			alyst carrier, and sometimes as a cata-		magnesium alloys
GS	nations	lyst. GS	gols		microstructure
0.0	. Sikkim	do	gels . <b>silica gel</b>		nickel alloys silicon
RT	Asia	RT	aerogels		SIIICOTT
	Bhutan		dehumidification	silicon	carbides
	Himalayas		dehydration	GS	carbon compounds
	India		drying		. carbides
			silicon dioxide		silicon carbides
	y aircraft		xerogels		silicon compounds
GS	Sikorsky aircraft		ŭ		silicon carbides
	. CH-3 helicopter	silica gl	ass	RT	abrasives
	. CH-34 helicopter	GS	glass		carbon-silicon carbide composites
	. CH-54 helicopter		silica glass		Carborundum (trademark)
	. H-19 helicopter	RT	glass coatings		ceramic fibers
	. H-53 helicopter . H-56 helicopter		glass electrodes		nanocomposites
	. H-60 Helicopter		glass fibers		polycarbosilanes
	. S-58 helicopter		glassware	alliaan	
	. S-61 helicopter		sands		compounds
	. S-67 helicopter		silicon dioxide	GS	silicon compounds
	. SH-3 helicopter	silicates			. flint . organic silicon compounds
	. SH-4 helicopter	GS	silicon compounds		triphenyl silicon
	. Sikorsky Whirlwind helicopter	as	. silicates		. silanes
	. UH-34 helicopter		aluminum silicates		chlorosilanes
	UH-60A helicopter		andesite		methyl chlorosilanes
	. UH-61A helicopter		feldspars		. silicates
RT ∝	aircraft		gehlenite		aluminum silicates
0" 1	1100 0 1 1' 1		kaolinite		andesite
,	/ HSS-2 helicopter		montmorillonite		feldspars
USE	SH-3 helicopter		pyrophyllite		gehlenite
Sikorsky	S-58 helicopter		plagioclase		kaolinite
	S-58 helicopter		aragonite		montmorillonite
			beryl		pyrophyllite
Sikorsky	S-61 helicopter		alexandrite		plagioclase
USE	S-61 helicopter		calcium silicates		aragonite
			gehlenite		beryl
	S-64 helicopter		cordierite		alexandrite
USE	CH-54 helicopter		fayalite fluorosilicates		calcium silicates gehlenite
Cilcorola	, C 65 haliaantar		forsterite		cordierite
	/ S-65 helicopter		garnets		fayalite
USE	H-53 helicopter		gadolinium-gallium garnet		fluorosilicates
Sikorsk	S-67 helicopter		yttrium-aluminum garnet		forsterite
	S-67 helicopter		yttrium-iron garnet		garnets
			merwinite		gadolinium-gallium garnet
Sikorsk	y Whirlwind helicopter		monticellite		yttrium-aluminum garnet
GS	Sikorsky aircraft		. nepheline		yttrium-iron garnet
	. Sikorsky Whirlwind helicopter		potassium silicates		merwinite
	V/STOL aircraft		pyroxenes		monticellite
	. rotary wing aircraft		enstatite		nepheline
	helicopters		sodium silicates		potassium silicates
	military helicopters		spodumene		pyroxenes
	Sikorsky Whirlwind helicopter		talc		enstatite

	sodium silicates		silicon isotopes	RT	SOI (semiconductors)
	spodumene		. nuclides		<b>33</b> . (333334
	talc		isotopes	silicon	e resins
	tourmaline		silicon isotopes	GS	resins
	zeolites				. silicone resins
	. silicides	silicon	junctions		silicon polymers
	disilicides	GS	semiconductor junctions		. silicone resins
	. silicon carbides		silicon junctions	RT	thermosetting resins
	. silicon nitrides	RT	amorphous silicon		
	. silicon oxides		heterojunctions		e rubber
	muscovite		homojunctions	GS	
	nephelite		SIS (semiconductors)		. rubber
	. silicon dioxide		SOI (semiconductors)		synthetic rubbers
	quartz		threshold voltage		silicone rubber
	coesite				RTV-40 rubber (trademark)
	stishovite	silicon	nitrides		RTV-60 rubber (trademark)
	spodumene	GS	nitrogen compounds		
	. silicon tetrachloride		. nitrides	silicon	
RT	akermanite		silicon nitrides	GS	silicon polymers
∞	chemical compounds		silicon compounds		. silicones
∞	Group 4A compounds		silicon nitrides		polysiloxanes
	methyl polysiloxanes	RT	ceramic matrix composites		siloxanes
	polysiloxanes		nanocomposites	DT	methyl polysiloxanes
	silicones		reaction bonding	HI o	∞ polymers
	siloxanes		sialon		silicon compounds
				oiliooni	izina
	controlled rectifiers		oxides	<b>silicon</b> i GS	
	SCR (rectifiers)	GS	chalcogenides	us	hardening (materials) . siliconizing
GS	electronic equipment		. oxides	DT	
	. solid state devices		silicon oxides	RT	coating
	semiconductor devices		muscovite		coatings
	thyristors		nephelite		corrosion prevention
	silicon controlled rectifiers		silicon dioxide		corrosion resistance
	rectifiers		quartz		oxidation resistance
	. thyristors		coesite		passivity
	silicon controlled rectifiers		stishovite	eilicon-	on-insulator semiconductors
RT	current converters (AC to DC)		spodumene		SOI (semiconductors)
	thyratrons		silicon compounds	USL	301 (Sellicolladelois)
			. silicon oxides	silicon-	on-sapphire junctions
silicon o			muscovite		SOS (semiconductors)
	The chemically resistant dioxide of sili-		nephelite	002	CCC (Commoditations)
	ed for Refrasil (trademark) and silica.		silicon dioxide	silicon-	on-sapphire semiconductors
	Refrasil (trademark)		quartz		SOS (semiconductors)
	silica		coesite		,
GS	chalcogenides		stishovite	silicon-c	on-sapphire transistors
	. oxides		spodumene		SOS (semiconductors)
	dioxides	RT	akermanite		,
	silicon dioxide			silk	
	quartz	silicon	polymers	GS	fabrics
	coesite	GS	silicon polymers		. silk
	stishovite		. silicone resins		fibers
	silicon oxides		. silicones		. silk
	silicon dioxide		polysiloxanes	RT	crepe
	quartz		siloxanes		organic materials
	coesite		methyl polysiloxanes		•
	stishovite		. polysilanes	silkwor	ms
	silicon compounds		polycarbosilanes	GS	animals
	. silicon oxides	RT «	∞ polymers		. invertebrates
	silicon dioxide				arthropods
	quartz		radiation detectors		insects
	coesite	GS	measuring instruments		moths
	stishovite		. radiation measuring instruments		silkworms
RT	borosilicate glass		radiation detectors		larvae
	ceramics		silicon radiation detectors		. silkworms
	E glass	RT «	∞ radiation	RT	infestation
	glass				
	metallic glasses		rectifiers		nissile storage)
	obsidian	USE	crystal rectifiers	USE	missile silos
	porcelain				
	quartz crystals		solar cells	siloxan	
	rhyolite	USE	solar cells	GS	silicon polymers
	S glass				. silicones
	sands		tetrachloride		siloxanes
		GS	halogen compounds	RT <	∞ polymers
	silica gel				
	silica glass		. chlorine compounds		polysiloxanes
	silica glass silicates		. chlorine compounds chlorides		
	silica glass silicates Vycor		. chlorine compounds chlorides silicon tetrachloride		polysiloxanes
	silica glass silicates		chlorine compounds . chlorides silicon tetrachloride . halides	silts	polysiloxanes silicon compounds
	silica glass silicates Vycor xerogels		chlorine compounds chlorides discontetrachloride halides chlorides	silts USE	polysiloxanes
silicon f	silica glass silicates Vycor xerogels		chlorine compounds chlorides silicon tetrachloride halides chlorides silicon tetrachloride	USE	polysiloxanes silicon compounds
silicon f RT	silica glass silicates Vycor xerogels ilms amorphous silicon		chlorine compounds chlorides silicon tetrachloride halides chlorides silicon tetrachloride	USE silver	polysiloxanes silicon compounds sediments
silicon f RT ∞	silica glass silicates Vycor xerogels ilms amorphous silicon films		chlorine compounds chlorides silicon tetrachloride halides chlorides silicon tetrachloride	USE	polysiloxanes silicon compounds sediments chemical elements
silicon f RT ∞	silica glass silicates Vycor xerogels ilms amorphous silicon films semiconductor devices		chlorine compounds chlorides cilicon tetrachloride halides chlorides cilicon tetrachloride silicon compounds silicon tetrachloride	USE silver	polysiloxanes silicon compounds sediments chemical elements . silver
silicon f	silica glass silicates Vycor xerogels ilms amorphous silicon films semiconductor devices SOI (semiconductors)		chlorine compounds chlorides silicon tetrachloride halides chlorides silicon tetrachloride silicon compounds silicon tetrachloride transistors	USE silver	polysiloxanes silicon compounds sediments chemical elements . silver silver isotopes
silicon f	silica glass silicates Vycor xerogels ilms amorphous silicon films semiconductor devices	<b>silicon</b> GS	chlorine compounds chlorides chlorides chlorides chlorides chlorides cilicon tetrachloride silicon compounds silicon tetrachloride transistors electronic equipment	USE silver	polysiloxanes silicon compounds  sediments  chemical elements . silver silver isotopes metals
silicon f RT ∞	silica glass silicates Vycor xerogels ilms amorphous silicon films semiconductor devices SOI (semiconductors) thin films		chlorine compounds chlorides silicon tetrachloride halides chlorides silicon tetrachloride silicon compounds silicon tetrachloride transistors electronic equipment solid state devices	USE silver	polysiloxanes silicon compounds  sediments  chemical elements . silver . silver isotopes metals . noble metals
silicon f	silica glass silicates Vycor xerogels ilms amorphous silicon films semiconductor devices SOI (semiconductors) thin films sotopes		chlorine compounds chlorides chlorides slicon tetrachloride halides chlorides slicon tetrachloride silicon compounds silicon tetrachloride transistors electronic equipment solid state devices semiconductor devices	USE silver	polysiloxanes silicon compounds  sediments  chemical elements . silver silver isotopes metals noble metals silver
silicon f RT 	silica glass silicates Vycor xerogels ilms amorphous silicon films semiconductor devices SOI (semiconductors) thin films sotopes chemical elements		chlorine compounds chlorides chlorides silicon tetrachloride halides chlorides silicon tetrachloride silicon compounds silicon tetrachloride transistors electronic equipment solid state devices semiconductor devices transistors	USE silver	polysiloxanes silicon compounds  sediments  chemical elements . silver . silver isotopes metals . noble metals . silver silver silver
silicon f RT Silicon is	silica glass silicates Vycor xerogels ilms amorphous silicon films semiconductor devices SOI (semiconductors) thin films sotopes		chlorine compounds chlorides chlorides slicon tetrachloride halides chlorides slicon tetrachloride silicon compounds silicon tetrachloride transistors electronic equipment solid state devices semiconductor devices	USE silver	polysiloxanes silicon compounds  sediments  chemical elements . silver silver isotopes metals noble metals silver

	silver isotopes		silver compounds	RT	architecture (computers)
	•		. silver halides		computer design
silver a			silver iodides		computer programming
GS	alloys . silver alloys	cilvor i	sotopes		concurrent processing
RT	bearing alloys		chemical elements		interprocessor communication MIMD (computers)
	gold alloys	ao	. nuclides		operating systems (computers)
			isotopes		parallel processing (computers)
	promides		silver isotopes	0,1,110	25 (
GS	halogen compounds		. silver		OR (image correlator)
	. bromine compounds bromides		silver isotopes	USE	image correlators
	silver bromides		metals . noble metals	similarii	ties
	. halides		silver		analogies
	bromides		silver isotopes		
	silver bromides		. transition metals		ity numbers dimensionless numbers
	metal halides		silver	GS	. similarity numbers
	silver halides		silver isotopes		ratios
	silver bromides silver compounds	eilver r	nitrates		. similarity numbers
	. silver halides		nitrogen compounds	RT	dimensional analysis
	silver bromides		. nitrates		scaling laws
			inorganic nitrates	oimilar	ity theorem
	cadmium batteries		silver nitrates		ity theorem theorems
UF GS	cadmium silver batteries		silver compounds	ao	. similarity theorem
do	electrochemical cells . electric batteries		. silver nitrates		Lagrange similarity hypothesis
	storage batteries	silver o	oxide zinc batteries	RT	
	silver cadmium batteries	USE			mathematical models
RT	nickel cadmium batteries	002	onto: Into battorios		scale models
		silver o		oimilitu	ido low
	chlorides	GS	chalcogenides	similitu GS	
GS	halogen compounds		. oxides	GS	. similitude law
	. chlorine compounds		metal oxides	RT	gravitation
	chlorides silver chlorides		silver oxides		inertia
	. halides		silver compounds . silver oxides		scale models
	chlorides		. Silver Oxides		viscosity
	silver chlorides	silver z	zinc batteries		
	metal halides	UF	silver oxide zinc batteries		harmonic motion
	silver halides		zinc silver batteries		A motion such that the displacement is
	silver chlorides		zinc silver oxide batteries		oidal function of time. harmonic motion
	silver compounds	GS		as	. simple harmonic motion
	. silver halides		. electric batteries		harmonics
	silver chlorides		storage batteries silver zinc batteries		. simple harmonic motion
eilver (	compounds		Sliver zinc batteries	RT	
	silver compounds	silvicu	lture		Fourier analysis
ao	. silver halides		The theory and practice of controlling		harmonic excitation
	silver bromides		ablishment, composition, and growth of	a imamba	. madbad
	silver chlorides		of trees for the harvesting of foliage		x method  A finite iterative algorithm used in lin-
	silver iodides		and possibly the trees themselves for		gramming whereby successive solutions
	. silver nitrates	biomas			ained and tested for optimality.
ОТ	. silver oxides	GS	agriculture . silviculture	GS	mathematical logic
	chemical compounds	RT	biomass		. algorithms
	∞ Group 1B compounds ∞ metal compounds	nı	botany		simplex method
	- metal compounds		cultivation		optimization
silver l	nalides		forests	DT	. simplex method
GS	halogen compounds		orchards	RT	linear programming
	halides		planting		mathematical programming matrices (mathematics)
	metal halides		trees (plants)	c	matrices (matrierratics) ∞ methodology
	silver halides	C11.			problem solving
	silver bromides silver chlorides	SIM UF	scientific instrument modules		
	silver iodides	GS	scientific instrument modules modules	simplif	
	silver compounds	ao	. spacecraft modules	RT	assumptions
	. silver halides		SIM		linearization
	silver bromides		spacecraft components	SIMS (	spectrometry)
	silver chlorides		. spacecraft modules	USE	, ,,
	silver iodides		SIM		, , , , , , , , , , , , , , , , , , , ,
	and the second section of the	RT	Apollo 15 flight		ed altitude
	nydrogen batteries		Apollo project	USE	altitude simulation
	Secondary batteries having silver and		cameras	-:	had annually a
	en electrodes. They have good energy and cycle life.	,	instrument packages ∞ instruments		ted annealing
	electrochemical cells	,	mon amonto	RT	led December 1992) annealing
40	. electric batteries	SIMD (	computers)	111	computerized simulation
	storage batteries		A type of parallel computer with mul-		laser annealing
	silver hydrogen batteries	tiple me	emories and an arithmetic logic unit for		optimization
			nemory. A single control unit allocates		pulse heating
	odides		ion execution according to the memory		simulation
GS	halogen compounds		olds the required operands. Used for		•
	. halides		nstruction multiple datastream.	simulat	
	metal halides	UF	,	GS	simulation
	silver halides	GS	data processing equipment . computers		. atmospheric entry simulation
			VALUE OF THE PARTY		. computerized simulation
	silver iodides				
	. iodine compounds		digital computers		analog simulation

. control simulation tunnel junctions . real variables . data simulation . . periodic functions . environment simulation . . . trigonometric functions single engine aircraft . . acoustic simulation .... sine series single engine aircraft . . altitude simulation . . series (mathematics) Cessna 172 aircraft Cessna 205 aircraft space environment simulation . sine series . . thermal simulation functions (mathematics) Cessna 210 aircraft . . . weightlessness simulation . transcendental functions F-8 aircraft ... neutral buoyancy simulation . . periodic functions . F-9 aircraft . F-16 aircraft exhaust flow simulation . . . trigonometric functions . flight simulation . F-84 aircraft . . . . sine series . in-flight simulation . F-86 aircraft . landing simulation . F-94 aircraft sine waves . motion simulation . F-100 aircraft Waves which can be expressed as the . rheoelectrical simulation . F-101 aircraft sine of a linear function of time, or space, or F-102 aircraft . solar simulation both. Used for sinusoids. . systems simulation . F-104 aircraft UF sinusoids . . computer systems simulation . F-105 aircraft RT elastic waves . direct numerical simulation . F-106 aircraft electromagnetic radiation . Jaguar aircraft . hardware-in-the-loop simulation trigonometric functions . large eddy simulation jet provost aircraft wavelet analysis L-29 jet trainer MiG aircraft . magnetohydrodynamic simulation ∞ waves . scene generation analogies Mirage aircraft Singapore . Mirage 3 aircraft bionics GS nations P-51 aircraft
P-1127 aircraft bond graphs data processing equipment Singapore RT Asia P-1154 aircraft deception . T-2 aircraft Earth analogs single channel per carrier transmission T-28 aircraft game theory Voice and data transmission system heuristic methods . T-33 aircraft for satellite communication featuring the use of a Vampire MK 35 aircraft hypervelocity projectiles carrier frequency for each channel of communimathematical models VJ-101 aircraft cation. Used for SCPC transmission. Monte Carlo method  $RT \, \infty \, aircraft$ SCPC transmission operations research fighter aircraft telecommunication simulated annealing general aviation aircraft . single channel per carrier simulators transmission spacecraft cabin simulators single event upsets transmission systems analysis DEF Radiation-induced errors in microelec-. signal transmission tronic circuits caused when charged particles validity . . data transmission virtual reality (usually from the radiation belts or from cosmic ... single channel per carrier rays) lose energy by ionizing the medium through which they pass, leaving behind a wake war games transmission RT carrier frequencies channels (data transmission) simulator training of electron-hole pairs. USE training simulators GS radiation effects satellite communication . single event upsets satellite transmission simulators astrionics spacecraft communication GS simulators avionics telegraph systems . environment simulators charged particles telemetry . . Lunar Gravity Simulator cosmic rays telephony . . solar simulators electron-hole drops voice communication . . space simulators inner radiation belt voice data processing ... clinostats ionization . . . High Vacuum Orbital Simulator microelectronics single crystals . Langley complex coordinator radiation damage monocrystals radiation dosage satellite-borne instruments . lunar orbit and landing simulators crystals GS . motion simulators single crystals . shock simulators secondary cosmic rays bicrystals . Shuttle Engineering Simulator spacecraft charging boules . Shuttle Mission Simulator spacecraft electronic equipment Bravais crystals . target simulators Bridgman method . training simulators single input single output systems crystal lattices SISO (control systems) . . flight simulators diamonds . . . cockpit simulators graphite . . spacecraft cabin simulators single instruction multiple datastream kink bands . vibration simulators USE SIMD (computers) needles . vertical motion simulators piezoelectric crystals single sideband modulation analogs polycrystals computer systems simulation single sideband transmission dummies space processing ultrapure metals single sideband transmission ∞ missile simulators single sideband modulation models single electron transistors transmission simulation (added July 2008) . electromagnetic wave transmission ∞ test equipment Three-terminal, solid-state, nanoelec-. . radio transmission test facilities tronic switching devices that use quantum me-... single sideband transmission training devices chanical electron tunneling to control the move-. signal transmission simultaneous equations ment of single electrons and amplify current. . . radio transmission GS electronic equipment . . single sideband transmission RT ∞ equations . solid state devices amplitude modulation least squares method . . semiconductor devices double sideband transmission matrices (mathematics) . . . transistors sidebands simultaneous image correlator . single electron transistors television transmission nanostructures (devices) voice communication USE image correlators single electron transistors wave propagation carbon nanotubes sine series electron mobility single stage rocket vehicles analysis (mathematics) GS

electron tunneling

nanotechnology

quantum dots

rocket vehicles

. single stage rocket vehicles

. . Agena rocket vehicles

. calculus

. . . sine series

. . series (mathematics)

	Agona A rocket vehicle	GS	landforms		roonization
	Agena A rocket vehicle Agena B rocket vehicle	GS	. structural basins		respiration
	Agena C rocket vehicle		karst	sinusoid	ds
	Agena D rocket vehicle		sinkholes	USE	
	Arcas rocket vehicles	RT	kettles (geology)	OOL	onio navoo
	. Black Brant sounding rockets	п	structural properties (geology)	Sioux h	elicopter
			structural properties (geology)		OH-13 helicopter
	Black Brant 1 sounding rocket			002	
	Black Brant 2 sounding rocket			siphoni	ina
	Black Brant 3 sounding rocket	sinking			The transfer of a liquid from a high to a
	Black Brant 4 sounding rocket	RT	falling		vel by atmospheric pressure forcing it up
	Black Brant 5 sounding rocket		refraction		rter leg while the weight of the liquid in
	Black Knight rocket vehicle		submerging		ger leg causes continuous downward
	Dornier paraglider rocket vehicle		water immersion	flow.	ger leg causes continuous downward
	Genie rocket vehicle				fluida
	Honest John rocket vehicle			nı °	∞ fluids
	Hyla-Star rocket vehicle	sinks			siphons
	Little John rocket vehicle	SN	(EXCLUDES PLUMBING		thermosiphons
	Loki rocket vehicle	OIN	FIXTURES:-LIMITED TO AREAS FOR	-1	_
	Nomad launch vehicle		ABSORPTIVE DISPOSAL OF HEAT OR	siphon	
	Veronique rocket vehicles		FLUIDS)	RT	materials handling
	Viking rocket vehicle	GS	sinks		pipelines
	Zuni rocket vehicle		. heat sinks		pipes (tubes)
RT	Mauler missile	RT	absorbers (materials)		pumps
111	rocket engines		disposal		siphoning
	∘ vehicles	0	o sources	0	∘ tubes
c	o veriicies				
cinalo	stage to exhit vehicles			SIR-A	
Sillyle :	stage to orbit vehicles	sinks (g	reology)	USE	Shuttle Imaging Radar
	Second and third generation (post-		structural basins		
	Shuttle) vehicles studied for Earth orbit	USL	Structural basins	SIR-B	
	ional space transportation system.			USE	Shuttle Imaging Radar
GS	launch vehicles				3 3
	. reusable launch vehicles	Sinope		SIR-C	
	single stage to orbit vehicles	(add	ed January 1996)	USE	Shuttle Imaging Radar
	Delta Clipper	DEF	A natural satellite of Jupiter orbiting at	002	ename maging maaa.
	HOTOL launch vehicle	a mean	distance of 23,700,000 kilometers.	SIR-D	
	reentry vehicles	GS	celestial bodies	USE	Shuttle Imaging Radar
	. recoverable spacecraft		. natural satellites	002	Onattio imaging ridda
	reusable spacecraft		Jupiter satellites	sirens	
	single stage to orbit vehicles		Sinope	RT	horns
	Delta Clipper	RT	Jupiter (planet)		noise intensity
		п	Jupiter (planet)		•
DT	HOTOL launch vehicle				signal generators
RT	NASA programs			٥	∘ signals
	rocket-based combined-cycle engines	sintere	d aluminum powder		sound generators
	space shuttles	GS	particles		sound intensity
	space transportation		. metal particles		sound transmission
c	∘ vehicles		metal powder		warning systems
	X-30 vehicle		powdered aluminum		
			sintered aluminum powder	SIRIO s	satellite
single-	phase flow		. powder (particles)	GS	artificial satellites
ŬF	one-phase flow		metal powder		. synchronous satellites
	uniphase flow				SIRIO satellite
GS	fluid flow		powdered aluminum	RT	Italian space program
	. single-phase flow	DT	sintered aluminum powder		Italy
RT	critical flow	RT	aluminum		naiy
111	gas flow		powder metallurgy	SIRS R	satellite
	laminar flow			GS	artificial satellites
				ao	
	liquid flow	sinterin	a		. meteorological satellites SIRS B satellite
	mass flow	DEF	The bonding of adjacent surfaces of	ОТ	
	multiphase flow		s in a mass of powders, usually metal, by	RT	meteorological flight
	orifice flow		Used for presintering.		meteorological instruments
	pipe flow	UF	presintering		satellite observation
	steady flow	GS	sintering		unmanned spacecraft
	steam flow	as			
	subcritical flow	ОТ	. liquid phase sintering	SIRTF	
	supercritical flow	RT	agglomeration	USE	Space Infrared Telescope Facility
	turbulent flow		combustion synthesis		
	two phase flow		furnaces	SIS (se	miconductors)
	uniform flow		growth	DEF	Semiconductor devices consisting o
	unsteady flow		heating	an elec	trically insulating layer sandwiched be
	anotoday non		hot isostatic pressing	tween t	wo semiconducting materials. Used fo
singula	r integral equations		hot pressing		nductor insulator semiconductors.
GS	analysis (mathematics)		metal powder	UF	semiconductor insulator
ao	. functional analysis		mixed crystals		semiconductors
	integral equations		porosity	GS	electronic equipment
			powder metallurgy	ao	. solid state devices
ОТ	singular integral equations		pyrometallurgy		SIS (semiconductors)
HIG	∞ equations		reaction bonding	RT	
	21. (		roasting	nı	barrier layers
	rity (mathematics)		shrinkage		MIM (semiconductors)
GS	analysis (mathematics)		sialon		MIS (semiconductors)
	. complex variables		Sidion		MSM (semiconductors)
	singularity (mathematics)				photodiodes
	naked singularities				photovoltaic cells
RT	points (mathematics)	sinuses	<b>3</b>		p-n junctions
	uniqueness	DEF	A term used in anatomical nomencla-		Schottky diodes
	• * ***		designate a cavity or hollow space.		semiconductor diodes
sinkho	es	GS	sinuses		semiconductor junctions
DEF	Circular depressions in a Karst area.		. paranasal sinuses		silicon junctions
	rainage is subterraneous, their size is	RT	carotid sinus body		SOI (semiconductors)
		n.i			
	ed in meters or tens of meters, and they		carotid sinus reflex		solar cells
are con	nmonly funnel shaped.		nose (anatomy)		SOS (semiconductors)

tin oxides supine position ∞ surfaces transistors sizing materials situational awareness (MATERIALS USED FOR SURFACE SN (added October 2001) SIS (superconductors) TREATMENT)
binders (materials) The degree and accuracy to which a (added March 1989) human or robotic agent perceives the operating superconductor insulator clays environment. superconductors fillers accident prevention electronic equipment glues air traffic control . solid state devices ∞ materials alertness decision support systems . . SIS (superconductors) ∞ sizing superconducting devices sizing (surface treatment) SIS (superconductors) display devices starches high temperature superconductors flight management systems Josephson effect human factors engineering sizing screens Josephson junctions operator performance GS separators squid (detectors) perception . classifiers pilot performance . sizing screens pilot support systems RT agitation SISO (control systems) reconnaissance (added October 1988) concentrators runway incursions fluid filters UF single input single output systems surveillance RT ∞ control ∞ screens threat evaluation control stability shakers control systems design sieves control theory size (dimensions) skeletal muscle feedback control GS size (dimensions) (added August 2004) grain size ∞ systems Striated muscles having fibers con-RT fineness systems stability nected at either or both extremities with the bony framework of the body. These are found in size determination site data processors appendicular and axial muscles.

UF striated muscle size determination SDP (computers) precipitation particle measurement GS data processing equipment body measurement (biology) voluntary muscle . computers GS classifiers anatomy site data processors . musculoskeletal system dimensional measurement RT Apollo project . . muscles ∞ measurement ∞ data . . skeletal muscle data links particle size distribution muscle fibers data processing sizina muscular strength smooth muscle size distribution striation DEF The study of the size of objects or DEF Selecting the location for any physical features and their distribution. plant (nuclear power, solar house, etc.) while skeletal myocytes GS size distribution considering the environmental impact, safety, (added December 2004) . particle size distribution etc USE muscle fibers drop size GS selection mass distribution site selection skeleton statistical distributions RT airports USE musculoskeletal system certification ∞ facilities size separation skewness sizing (separation) RT asymmetry industrial areas beneficiation deformation land use classifiers displacement leasing logistics ∞ classifying distortion Mars landing sites distribution moments concentrators options filtration eccentricity flotation moments resources metal powder roads particle size distribution skid landings routes air cushion landing systems powder (particles) services ∞ separation crash landing sites settling hydroplaning terminal facilities skidding ∞ sizing transportation utilities skidding RT hydroplaning ∞ sizing (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS sites landing gear UF tracts LISTED BELOW) body measurement (biology) sideslip GS sites skid landings . Central Atlantic Regional Ecol Test size determination sleds Site size separation vaw sizing (shaping) sizing (surface treatment) . landing sites . . lunar landing sites skills . . Mars landing sites sizing materials USE abilities . launching sites . . launching pads sizing (separation) skin (anatomy) offshore reactor sites USE size separation GS anatomy airport planning skin (anatomy) barren land . . epidermis sizing (shaping) ∞ facilities albinism metal working GS land ∞ blisters sizing (shaping) ∞ plots carotene RT coining position (location) chlorophylls pressing (forming) regions collagens ∞ sizing rural land use contact dermatitis site selection cytochromes sizing (surface treatment) dermatitis (EXCLUDES MECHANICAL SHAPING OR dermatology sitting position REMOVAL OF SURFACE MATERIALS) finishes epithelium prone position evaporation

∞ sizina

sizing materials

hair

rest

seats

	homeostasis		conical nozzles		tropospheric radiation
	leather		exhaust nozzles		
	melanin		foundations		rveys (astronomy)
	membranes	0	∘ jet nozzles	GS	observation
	perspiration		rocket nozzles		. sky surveys (astronomy)
	petechia				surveys
	pigments	skis			. sky surveys (astronomy)
	secretions	RT	hydrofoils	RT	asteroid detection
	sense organs		hydroplanes (surfaces)		astronomical catalogs
	thermoreceptors		landing gear		astronomy
	touch				indexes (documentation)
		Skua ro	ocket vehicles		northern sky
skin (st	ructural member)	GS	rocket vehicles		Southern sky
GŜ	membranes		. sounding rockets		•
	. membrane structures		Skua rocket vehicles	sky wa	ves
	skin (structural member)	RT	solid propellant rocket engines	ĎEF	In radio, radio energy that is received
	structural members	۰	vehicles	after ha	ving been reflected by the ionosphere.
	. membrane structures			GS	
	skin (structural member)	skull			. radio waves
RT	aircraft construction materials	GS	anatomy		sky waves
	construction materials		. head (anatomy)		whistlers
	hulls (structures)		skull	RT	
	metal shells		cranium		ionospheric noise
	shells (structural forms)		intracranial cavity		
	stressed-skin structures		mastoids	Skybol	t missile
	thin walled shells		. musculoskeletal system	GS	missiles
	thin walls		bones	0.0	. ballistic missiles
			skull		Skybolt missile
	toroidal shells		cranium	RT	
	webs (supports)		intracranial cavity		solid propellant rocket engines
alsia fui	-+i		mastoids	Skycrar	ne helicopter
skin fri		DT			CH-54 helicopter
UF	friction pressure drop	RT	forehead	OOL	CIT-54 Helicopter
GS	friction		intercranial circulation	Skudro	l (trademark)
	skin friction	olar		GS	liquids
	friction drag	sky	ala.	as	•
	aerodynamic drag	GS	sky		. hydraulic fluids
	supersonic drag	DT	. night sky	DT	Skydrol (trademark)
	viscous drag	RT	cloud cover	RT	esters
RT	aerodynamic heating		clouds (meteorology)		phosphates
	drag		dayglow		plasticizers
	drag devices		Rayleigh scattering	01.1	1 1 0
	flow resistance		sunlight		vk aircraft
	fluid flow			USE	A-4 aircraft
	friction factor		ghtness		
	riblets	GS	electromagnetic properties	•	k balloons
	streamlining		. optical properties		Large free balloons having plastic en-
			brightness	velopes	, used especially for constant level me-
skin gra	afts		sky brightness	teorolog	gical observations at very high altitudes.
RT	surgery	RT	airglow	(Origina	ally a code name for a U.S. Navy project.)
	therapy		auroras	GS	expandable structures
	.,		cloud cover		. inflatable structures
skin res	sistance		daytime		balloons
GS	electrical properties		gegenschein		high altitude balloons
	. electrical impedance		glare		skyhook balloons
	electrical resistance		light (visible radiation)	RT	high altitude
	skin resistance		light emission		meteorological balloons
	impedance		luminance		ROBIN balloons
	. electrical impedance		night		rockoons
	electrical resistance		night sky		
	skin resistance		nightglow	Skylab	1
РΤ			solar radiation	UF	SKYLAB space station (unmanned)
HI º	o resistance			Oi	SL 1
akin ta	mnoratura (biology)		sunlight	GS	artificial satellites
	nperature (biology) temperature		zodiacal light	us	. orbital workshops
GS	•	olar rod	iction		
-	skin temperature (biology)	sky rad			Skylab 1
HI •	∘ biology	GS	atmospheric radiation		. space stations
	fever		sky radiation		Skylab 1
	hyperthermia		airglow		laboratories
	hypothermia		geocoronal emissions		. space laboratories
			nightglow		manned orbital laboratories
	nperature (non-biological)		twilight glow		Skylab 1
GS	surface properties		dayglow		manned spacecraft
	. surface temperature		elves		. manned orbital laboratories
	skin temperature		sprites (atmospheric physics)		Skylab 1
	(non-biological)		electromagnetic radiation		. orbital workshops
	temperature		. light (visible radiation)		Skylab 1
	. surface temperature		sky radiation		stations
	. skin temperature		airglow		. space stations
	(non-biological)		geocoronal emissions		Skylab 1
RT	aerodynamic heating		nightglow	RT	airlock modules
	aerothermodynamics		twilight glow	• • • •	command service modules
	· · · · · · · · · · · · · · · · · · ·		dayglow		EREP
Skinne	boxes		elves		multiple docking adapters
RT	behavior		sprites (atmospheric physics)		space missions
111	psychological tests	RT	background radiation		opado missions
	PERSONALISM IESIS	nı.	baonground radiation	Skylab	2
			nyranometers		
	psychometrics		pyranometers		
ekist-		۰	radiation	UF	SL 2
skirts	psychometrics	٥	radiation stratosphere radiation		SL 2 artificial satellites
skirts RT		۰	radiation	UF	SL 2

	. space stations		Apollo flights		wastes
	. Skylab 2		Apollo project		
	laboratories		Apollo spacecraft	SLAM	
	. space laboratories		Apollo telescope mount	USE	supersonic low altitude missile
	manned orbital laboratories		Earth Resources Information System		
	Skylab 2		Earth Resources Program	slammi	
	manned spacecraft		Earth Resources Survey Program	RT	fluid dynamics
	. manned orbital laboratories		orbital workshops	slant	
	Skylab 2		Saturn 1 workshop	USE	slopes
	. orbital workshops		Saturn 5 workshop	OOL	siopes
	Skylab 2		Saturn workshops	slant pe	rception
	stations		Spacelab	USE	space perception
	. space stations				space persopasii
	. Skylab 2	SKYLAI	3 space station (unmanned)	slashes	
RT	airlock modules	USE	Skylab 1	USE	clearings (openings)
	command service modules		•		
	EREP	Skvlark		Slater o	
	multiple docking adapters	USE	Skylark rocket vehicle	GS	orbitals
	Saturn 1B launch vehicles	OOL	OKYILIK TOOKET VEHICLE		. Slater orbitals
	Saturn 5 launch vehicles			RT	Hartree-Fock-Slater method
	space missions		rocket vehicle		
Skylab	2	UF	Skylark	sleds	
UF	SL 3	GS	rocket vehicles	GS	surface vehicles
GS	artificial satellites		. multistage rocket vehicles		. sleds
ao	. orbital workshops		Skylark rocket vehicle	DT	rocket propelled sleds
	Skylab 3		. sounding rockets	RT	dollies
	. space stations	DT	Skylark rocket vehicle		skidding towed bodies
	Skylab 3	RT	solid propellant rocket engines		
	laboratories				tractors
	. space laboratories	Skymas	ter aircraft		trailers
	manned orbital laboratories	USE	C-54 aircraft	alaan	
	Skylab 3			<b>sleep</b> UF	drowsiness
	manned spacecraft	Skynet	satellites	GS	sleep
	. manned orbital laboratories	GS	artificial satellites	ds	
	Skylab 3	0.0	. Skynet satellites		. hypersomnia . hypnosis
	. orbital workshops	RT	communication satellites		. insomnia
	Skylab 3		satellite networks	RT	dreams
	stations		UK satellites		drives
	. space stations			•	melatonin
	Skylab 3	01 11			
RT	airlock modules		er aircraft		rapid eye movement state rest
	command service modules	USE	A-1 aircraft		rest
	EREP			sleen d	eprivation
	multiple docking adapters	Skyrock	et aircraft	GS	deprivation
	Saturn 1B launch vehicles	USE	D-558 aircraft	0.0	. sleep deprivation
	Saturn 5 launch vehicles			RT	consciousness
	space missions	Skystre	ak aircraft	• • • • • • • • • • • • • • • • • • • •	fatigue (biology)
	The state of the s		D-558 aircraft		insomnia
Skylab	4	002	2 000 4 0. 4		wakefulness
UF	SL 4	Classes	a iveraft		
GS	artificial satellites	Skyvan		sleeves	i
	. orbital workshops	USE	SC-7 aircraft	SN	(EXCLUDES CLOTHING)
	Skylab 4			RT	connectors
	. space stations	Skywarı	rior aircraft		couplings
	Skylab 4	USE	A-3 aircraft		fasteners
	laboratories				fittings
	. space laboratories	SL 1			joints (junctions)
	manned orbital laboratories	USE	Skylab 1		L. P.
	Skylab 4		•	slender	
	manned spacecraft	SL 2		GS	slender bodies
	. manned orbital laboratories	USE	Skylab 2		. slender cones
	Skylab 4	USE	Onylub Z	RT	,
	. orbital workshops	a			aerodynamics
	Skylab 4	SL 3	01.1.1.0		axisymmetric bodies
	stations	USE	Skylab 3	~	bodies ducted bodies
	. space stations				
RT	Skylab 4 airlock modules	SL 4			fineness ratio missile bodies
нı		USE	Skylab 4		
	command service modules EREP		•		power law bodies
		CI 2 *0	akat angina	~	sharpness
	multiple docking adapters Saturn 1B launch vehicles	GS	cket engine		streamlined bodies
	Saturn 5 launch vehicles	do	engines rocket engines		symmetrical bodies thin bodies
	space missions		solid propellant rocket engines	•	unit bodies
	opado Illiosidio		SL-3 rocket engines	slender	cones
Skylab	program		SL-5 Tocket engine	GS	cones
GS	programs			40	. conical bodies
	. NASA programs	slabs	1.20		slender cones
	NASA space programs	RT	billets		slender bodies
	Skylab program		blocks		. slender cones
	. space programs		flat plates		symmetrical bodies
	NASA space programs		metal plates		. bodies of revolution
	Skylab program		plates (structural members)		conical bodies
RT	AAP 1 mission	•	platforms		slender cones
	AAP 2 mission		structural members	RT	aerodynamic configurations
	AAP 3 mission			• • • • • • • • • • • • • • • • • • • •	axisymmetric bodies
	AAP 4 mission	slags			,
	airlock modules	RT	aggregates	slender	wings
	Apollo applications program		reaction products	UF	high aspect ratio wings
	Apollo applications program		reaction products	0.	mg. aspect rane miles

00			P. P.		
GS	airfoils . wings		sliding		radar antennas waveguide antennas
	slender wings	slip band	ds		waveguide amerilias
	infinite span wings	ÜSE	edge dislocations	slots	
RT	fixed wings			GS	slots
	wing planterine	slip cast	ting forming techniques	DT	. wing slots
	wing rock		. casting	RT	lift devices louvers
			slip casting		openings
	ness ratio				slits
		slip flow			
USE	aspect ratio	SN	(LIMITED TO RAREFIED GAS FLOW IN THE REGION BETWEEN KNUDSEN	slotted a	
alauda a			NUMBERS 0. 01 AND 0. 1	USE	slot antennas
slewing DEF	Of a gyro, the rotation of the spin axis		ONLY-EXCLUDES TRANSITION FLOW, FREE MOLECULE FLOW CREEP, SHEAR	slotted	wind tunnels
	by applying torque about the axis of		FLOW, AND PLASTIC FLOW) Rarefied gas flow in the region be-	GS	test facilities
rotation.	In radar, changing the scale on the		nudsen numbers 0. 01 and 0. 1.		. wind tunnels
display.			fluid flow	RT	slotted wind tunnels
RT	antennas		. gas flow	ΠI	supersonic wind tunnels transonic wind tunnels
	error signals positioning devices (machinery)		molecular flow		trisonic wind tunnels
	radar tracking		slip flow		vents
	servomotors		continuum flow free molecular flow	01	_
∞	spinners		low density wind tunnels	Slovakia	a ed September 1994)
			rarefied gas dynamics		nations
slicing			transition flow		. Slovakia
GS	cutting	alinatras	amo.	RT	Czech Republic
DT	· choing	slipstrea GS	wakes		Czechoslovakia
RT	metal cutting		. aircraft wakes		Europe
	planing planning		slipstreams	slow neu	utrons
	scarfing		propeller slipstreams		thermal neutrons
∞	separation		. turbulent wakes		
	splitting		slipstreams	SLR (rai	0 0,
			propeller slipstreams backwash		ed July 2001) satellite laser ranging
slicks			Strouhal number	OOL	Satellite laser ranging
USE	oil slicks		turbulence	sludge	
		-114-		DEF	A water-formed sedimentary deposit.
slides		slits GS	openings	GS	sludge
USE	chutes		. slits	RT	. activated sludge deposits
			apertures		liquid wastes
	microscopy)		Fresnel reflectors		mud
	Rectangular pieces of glass on which		slots		ocean bottom
tion.	are mounted for microscopic examina-	slivers			organic wastes (fuel conversion)
	microscopy		fibers		reaction products sediments
			wood		sewage treatment
sliding					solid wastes
	Relative displacement between two	slopes	The inclined curfoces of any part of the		waste treatment
bodies a	llong a surface, without loss of contact		The inclined surfaces of any part of the urface, as in hillslopes; also broad parts		wastes
	the bodies.		tinent descending toward an ocean, as	slumpin	na .
RT	interfacial tension		acific slope. Used for cant, slant, and		geomorphology
	lubrication mass flow	steepnes			mass flow
∞	slip		cant		sliding
	slumping		slant steepness	slurries	
	static friction		slopes		mixtures
			. glide paths	ao	. slurries
∞ sliding			angles (geometry)	RT	dispersions
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		cliffs		emulsions
	LISTED BELOW)		escarpments grade		gels
RT	contact loads		gradients		rheocasting slurry propellants
	electric contacts sliding friction		height		slush hydrogen
	vapor phase lubrication	∞	inclination		, ,
	Tapor priaco lacrication		landforms		ropellants
sliding 1	friction		landslides level (horizontal)	GS	propellants . rocket propellants
	friction		pitch (inclination)		liquid rocket propellants
	. kinetic friction		profiles		slurry propellants
	sliding friction		rakes		slush hydrogen
RT	coefficient of friction		ramp functions	RT	aircraft fuels
	dry friction electric contacts		ramps (structures) topography		colloidal propellants dispersions
00	sliding contact		ιοροθιαριίλ		gelled rocket propellants
	static friction	sloshing			metal fuels
	tribometers	USE	liquid sloshing		metal propellants
	wear	clot cat	onnae		monopropellants
	wear resistance	slot ante	ennas slotted antennas		slurries
			antennas		solid rocket propellants
∞ slip	(LIGE OF A MODE COPOURD TERMS		. directional antennas	slush	
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		. slot antennas	RT	bay ice
DT	LISTED BELOW)		antenna design		cryogenic rocket propellants
RT	plastic deformation polyslips		horn antennas microwave antennas		runway conditions
	sideslip		radant		snow
	•				

water waveguides . . . smallpox slush hydrogen SMM-A smart materials (added March 1990) USE Solar Maximum Mission-A (added March 1998) GS propellants DEF Engineered materials capable of re-. rocket propellants smog sponding to their environment to a significant . . liquid rocket propellants RT air pollution degree, by virtue of intrinsic properties and/or ... slurry propellants air sampling built-in sensor/actuator elements. Applications ... slush hydrogen carbon monoxide of these materials include vibration suppression/ hydrogen fuels combustion products isolation, precision positioning, damage detecliquid hydrogen environmental chemistry tion, and tunable devices. slurries exhaust gases intelligent materials flames GS smart materials SLV fog . thermochromic coatings USF Standard Launch Vehicles hydrocarbon combustion actuators hydrocarbon poisoning biomimetics SLV (soft landing vehicles) lead poisoning composite materials USE soft landing spacecraft particulates electrorheological fluids smoke SLWT (propellant tank) electrostriction ferroelastic materials (added June 1998) smoke ferroelasticity USE external tanks mixtures ferroelectric materials . dispersions propellant tanks ferromagnetic materials . . plastisols magnetorheological fluids SM-65 missile . . . smoke USE Atlas launch vehicles ∞ materials aerosols piezoelectric actuators air pollution SM-68 missile piezoelectric ceramics biomass burning USE Titan 1 ICBM sensors combustion products shape memory alloys dust SM-68B missile smart structures exhaust gases USE Titan 2 ICBM vibration damping fire damage fog SMA (image analysis) forest fires smart structures (added July 2000) fumes (added August 1990) USE spectral mixture analysis haze detection Structures and/or structural compo-∞ markers nents which contain embedded internal sensors. Small Astronomy Satellite 1 particles The sensors serve as lifetime health monitors USE SAS-1 particulates analogous to a central nervous system, and give smog smoldering information on structural properties, providing Small Astronomy Satellite 2 real time nondestructive evaluation. USE SAS-2 soot intelligent structures vapors active control Small Astronomy Satellite 3 visibility adaptive control USE SAS-3 biomimetics smoke abatement composite structures Small Astronomy Satellites aerosols fiber optics USE SAS air pollution large space structures carbon dioxide removal piezoelectric actuators small perturbation flow exhaust gases smart materials fluid flow GS pollution space station structures small perturbation flow soot spacecraft structures flow distortion strain measurement oscillating flow smoke detectors structural engineering measuring instruments GS structural members small satellite technology . indicating instruments ∞ structures (added January 1996) . smoke detectors systems health monitoring Small Satellite Technology Initiative fire prevention tensegrity structures SSTI fumes technologies
. small satellite technology GS gas detectors safety devices smear frequency response image contrast cost reduction signal processing microsatellites nanosatellites smoke trails signal fading remote sensing RT ∞ tracks television transmission satellite design video data wind direction small scientific satellites wind measurement wind profiles Small Satellite Technology Initiative smectite (added October 2001) smoldering USE small satellite technology USE montmorillonite (added July 1997) A slow, flameless combustion of a solid small scientific satellites DEF GS artificial satellites fuel. smell . scientific satellites combustion USE olfactory perception . . small scientific satellites smoldering . . . Submillimeter Wave Astronomy burning rate Satellite combustion stability smelting ... Transition Region and Coronal erosive burning RT melting Explorer fires ∞ metallurgy microsatellites flammability reduction (chemistry) nanosatellites smoke refining small satellite technology smooth muscle Small Water Plane Area Twin Hull Smith chart (added August 2004) USE SWATH (ship) electrical impedance Unstriated and unstriped muscle, one impedance of the muscles of the internal organs, blood vessels, hair follicles, etc. Contractile elements polar coordinates smallpox are elongated, usually spindle-shaped cells with centrally located nuclei. Smooth muscle fibers

reactance

standing wave ratios

transmission lines

are bound together into sheets or bundles by

GS

diseases

. infectious diseases

viral diseases

reticular	fibers and frequently elastic nets are		stress analysis		turbogenerators
also abu			stress cycles		turbogenerators
UF	involuntary muscle		stress measurement	SNAP 2	
GS	anatomy		stress ratio	GS	auxiliary power sources
	. musculoskeletal system				. nuclear auxiliary power units
	muscles smooth muscle	snails	animala		SNAP
RT	muscle cells	GS	animals . invertebrates		fission electric cells
	muscular function		mollusks		SNAP 2 space power reactors
	skeletal muscle		snails		fission electric cells
	i				SNAP 2
smooth GS	smoothing	snakes			nuclear electric power generation
ao	. data smoothing	GS	animals		. nuclear auxiliary power units
RT	adjusting		. vertebrates reptiles		SNAP fission electric cells
	flattening		snakes		SNAP 2
	honing				space power reactors
	leveling planing	snaking			fission electric cells
	polishing	USE	lateral oscillation		SNAP 2
	roughness	SNAP			. nuclear power reactors space power reactors
	structured grids (mathematics)	UF	Systems for Nuclear Auxiliary Power		fission electric cells
CMC		GS	auxiliary power sources		SNAP 2
<i>SMS</i> USE	Synchronous Meteorological		. nuclear auxiliary power units		nuclear reactors
002	Satellite		SNAP		. nuclear power reactors
			fission electric cells		space power reactors fission electric cells
SMS 1			SNAP 2 SNAP 4		SNAP 2
DEF	A meteorological satellite in synchro-		SNAP 8	RT	heat exchangers
	bit over the Atlantic Ocean to give cov- the Eastern US. It was launched in May		SNAP 10A		space power unit reactors
	id is no longer operational, but still in		SNAP 1		turbogenerators
orbit.	3		SNAP 3		
GS	artificial satellites		SNAP 7 SNAP 9A	SNAP 3	
	. meteorological satellites		SNAP 11	GS	auxiliary power sources
	Synchronous Earth Observatory satellite		SNAP 13		. nuclear auxiliary power units SNAP
	SMS 1		SNAP 15		SNAP 3
	Synchronous Meteorological		SNAP 17		electric generators
	Satellite		SNAP 19		. direct power generators
	SMS 1		SNAP 21 SNAP 23		thermoelectric generators
	. synchronous satellites Synchronous Earth Observatory		SNAP 27		SNAP 3 nuclear electric power generation
	satellite		SNAP 29		. nuclear auxiliary power units
	SMS 1		SNAP 50		SNAP
	51015 1				SINAF
	Synchronous Meteorological		nuclear electric power generation		SNAP 3
	Synchronous Meteorological Satellite		nuclear electric power generation . nuclear auxiliary power units		
RΤ	Synchronous Meteorological Satellite SMS 1		nuclear electric power generation	SNAP 4	SNAP 3
RT	Synchronous Meteorological Satellite SMS 1 GOES 2		nuclear electric power generation . nuclear auxiliary power units SNAP	SNAP 4 GS	SNAP 3 auxiliary power sources
RT	Synchronous Meteorological Satellite SMS 1		nuclear electric power generation . nuclear auxiliary power units . SNAP fission electric cells SNAP 2 SNAP 4		SNAP 3  auxiliary power sources . nuclear auxiliary power units
SMS 2	Synchronous Meteorological Satellite SMS 1 GOES 2 NOAA satellites		nuclear electric power generation . nuclear auxiliary power units . SNAP fission electric cells SNAP 2 SNAP 4 SNAP 8		auxiliary power sources . nuclear auxiliary power units . SNAP
SMS 2 DEF	Synchronous Meteorological Satellite SMS 1 GOES 2 NOAA satellites  Meteorological satellite in synchronous		nuclear electric power generation . nuclear auxiliary power units . SNAP fission electric cells SNAP 2 SNAP 4 SNAP 8 SNAP 10A		SNAP 3  auxiliary power sources . nuclear auxiliary power units
SMS 2 DEF orbit ov	Synchronous Meteorological Satellite SMS 1 GOES 2 NOAA satellites  Meteorological satellite in synchronous er Honolulu to give coverage to the		nuclear electric power generation . nuclear auxiliary power units . SNAP fission electric cells SNAP 2 SNAP 4 SNAP 8		auxiliary power sources . nuclear auxiliary power units . SNAP fission electric cells SNAP 4 space power reactors
SMS 2 DEF orbit ov Western	Synchronous Meteorological Satellite SMS 1 GOES 2 NOAA satellites  Meteorological satellite in synchronous er Honolulu to give coverage to the US. It was launched in February 1975		nuclear electric power generation . nuclear auxiliary power units . SNAP fission electric cells SNAP 2 SNAP 4 SNAP 8 SNAP 10A SNAP 1		auxiliary power sources . nuclear auxiliary power units . SNAP fission electric cells SNAP 4 space power reactors fission electric cells
SMS 2 DEF orbit ov Western	Synchronous Meteorological Satellite SMS 1 GOES 2 NOAA satellites  Meteorological satellite in synchronous er Honolulu to give coverage to the		nuclear electric power generation . nuclear auxiliary power units . SNAP . fission electric cells . SNAP 2 . SNAP 4 . SNAP 8 . SNAP 10A . SNAP 1 . SNAP 3 . SNAP 7 . SNAP 9A		auxiliary power sources . nuclear auxiliary power units . SNAP fission electric cells SNAP 4 space power reactors fission electric cells SNAP 4
SMS 2 DEF orbit ov Western and is n	Synchronous Meteorological Satellite SMS 1 GOES 2 NOAA satellites  Meteorological satellite in synchronous er Honolulu to give coverage to the US. It was launched in February 1975 o longer operational, but still in orbit. artificial satellites . meteorological satellites		nuclear electric power generation . nuclear auxiliary power units . SNAP fission electric cells SNAP 2 SNAP 4 SNAP 8 SNAP 10A SNAP 1 SNAP 3 SNAP 7 SNAP 9A		auxiliary power sources . nuclear auxiliary power units . SNAP fission electric cells SNAP 4 space power reactors fission electric cells SNAP 4 nuclear electric power generation
SMS 2 DEF orbit ov Western and is n	Synchronous Meteorological Satellite SMS 1 GOES 2 NOAA satellites  Meteorological satellite in synchronous er Honolulu to give coverage to the US. It was launched in February 1975 o longer operational, but still in orbit. artificial satellites meteorological satellites Synchronous Earth Observatory		nuclear electric power generation . nuclear auxiliary power units . 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 13		auxiliary power sources . nuclear auxiliary power units . SNAP fission electric cells SNAP 4 space power reactors fission electric cells SNAP 4
SMS 2 DEF orbit ov Western and is n	Synchronous Meteorological Satellite SMS 1 GOES 2 NOAA satellites  Meteorological satellite in synchronous er Honolulu to give coverage to the US. It was launched in February 1975 o longer operational, but still in orbit. artificial satellites . meteorological satellites . Synchronous Earth Observatory satellite		nuclear electric power generation . nuclear auxiliary power units . SNAP fission electric cells SNAP 2 SNAP 4 SNAP 8 SNAP 10A SNAP 1 SNAP 3 SNAP 7 SNAP 9A		auxiliary power sources . nuclear auxiliary power units . SNAP fission electric cells SNAP 4 space power reactors fission electric cells SNAP 4 nuclear electric power generation . nuclear auxiliary power units SNAP fission electric cells
SMS 2 DEF orbit ov Western and is n	Synchronous Meteorological Satellite SMS 1 GOES 2 NOAA satellites  Meteorological satellite in synchronous er Honolulu to give coverage to the US. It was launched in February 1975 o longer operational, but still in orbit. artificial satellites meteorological satellites Synchronous Earth Observatory		nuclear electric power generation . nuclear auxiliary power units . 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 9A . SNAP 11 . SNAP 11		auxiliary power sources . nuclear auxiliary power units . SNAP fission electric cells SNAP 4 space power reactors fission electric cells SNAP 4 nuclear electric power generation . nuclear auxiliary power units SNAP . fission electric cells fission electric cells SNAP 4
SMS 2 DEF orbit ov Western and is n	Synchronous Meteorological Satellite SMS 1 GOES 2 NOAA satellites  Meteorological satellite in synchronous er Honolulu to give coverage to the US. It was launched in February 1975 o longer operational, but still in orbit. artificial satellites meteorological satellites Synchronous Earth Observatory satellite SMS 2 Synchronous Meteorological Satellite		nuclear electric power generation . nuclear auxiliary power units . SNAP . fission electric cells SNAP 2 SNAP 4 SNAP 8 SNAP 10A SNAP 11 SNAP 3 SNAP 7 SNAP 9A SNAP 11 SNAP 13 SNAP 15 SNAP 15 SNAP 15 SNAP 17 SNAP 19 SNAP 19 SNAP 19 SNAP 19		auxiliary power sources . nuclear auxiliary power units . SNAP fission electric cells SNAP 4 space power reactors fission electric cells SNAP 4 nuclear electric power generation . nuclear auxiliary power units . SNAP fission electric cells SNAP 4 space power reactors
SMS 2 DEF orbit ov Western and is n	Synchronous Meteorological Satellite SMS 1 GOES 2 NOAA satellites  Meteorological satellite in synchronous er Honolulu to give coverage to the US. It was launched in February 1975 olonger operational, but still in orbit. artificial satellites meteorological satellites Synchronous Earth Observatory satellite SMS 2 Synchronous Meteorological Satellite SMS 2		nuclear electric power generation . nuclear auxiliary power units . SNAP . fission electric cells SNAP 2 SNAP 4 SNAP 8 SNAP 10A SNAP 10 SNAP 1 SNAP 3 SNAP 7 SNAP 3 SNAP 15 SNAP 13 SNAP 15 SNAP 15 SNAP 19 SNAP 19 SNAP 19 SNAP 19 SNAP 19 SNAP 15 SNAP 17 SNAP 19 SNAP 19 SNAP 21 SNAP 23		auxiliary power sources . nuclear auxiliary power units . SNAP fission electric cells SNAP 4 space power reactors fission electric cells SNAP 4 nuclear electric power generation . nuclear auxiliary power units SNAP . fission electric cells fission electric cells SNAP 4
SMS 2 DEF orbit ov Western and is n	Synchronous Meteorological Satellite SMS 1 GOES 2 NOAA satellites  Meteorological satellite in synchronous er Honolulu to give coverage to the US. It was launched in February 1975 o longer operational, but still in orbit. artificial satellites . meteorological satellites . Synchronous Earth Observatory satellite SMS 2 Synchronous Meteorological Satellite SMS 2 synchronous satellites		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 3 . SNAP 7 . SNAP 9A . SNAP 11 . SNAP 11 . SNAP 13 . SNAP 15 . SNAP 17 . SNAP 19 . SNAP 19 . SNAP 19 . SNAP 19 . SNAP 21 . SNAP 23 . SNAP 23 . SNAP 23		auxiliary power sources . nuclear auxiliary power units . SNAP . fission electric cells SNAP 4 . space power reactors fission electric cells SNAP 4 nuclear electric power generation . nuclear auxiliary power units . SNAP . fission electric cells SNAP 4 . space power reactors . fission electric cells SNAP 4 . space power reactors fission electric cells
SMS 2 DEF orbit ov Western and is n	Synchronous Meteorological Satellite SMS 1 GOES 2 NOAA satellites  Meteorological satellite in synchronous er Honolulu to give coverage to the US. It was launched in February 1975 o longer operational, but still in orbit. artificial satellites meteorological satellites Synchronous Earth Observatory satellite SMS 2 Synchronous Meteorological Satellite SMS 2 synchronous satellites SMS 2 synchronous satellites SMS 2 synchronous Earth Observatory		nuclear electric power generation . nuclear auxiliary power units . SNAP . fission electric cells SNAP 2 SNAP 4 SNAP 8 SNAP 10A SNAP 10 SNAP 1 SNAP 3 SNAP 7 SNAP 3 SNAP 15 SNAP 13 SNAP 15 SNAP 15 SNAP 19 SNAP 19 SNAP 19 SNAP 19 SNAP 19 SNAP 15 SNAP 17 SNAP 19 SNAP 19 SNAP 21 SNAP 23		auxiliary power sources . nuclear auxiliary power units . SNAP fission electric cells SNAP 4 space power reactors fission electric cells SNAP 4 nuclear electric power generation . nuclear auxiliary power units . SNAP . fission electric cells SNAP 4 . space power reactors fission electric cells SNAP 4 . space power reactors fission electric cells SNAP 4 . nuclear power reactors . space power reactors . space power reactors
SMS 2 DEF orbit ov Western and is n	Synchronous Meteorological Satellite SMS 1 GOES 2 NOAA satellites  Meteorological satellite in synchronous er Honolulu to give coverage to the US. It was launched in February 1975 o longer operational, but still in orbit. artificial satellites . meteorological satellites . Synchronous Earth Observatory satellite SMS 2 Synchronous Meteorological Satellite SMS 2 synchronous satellites	RT	nuclear electric power generation . nuclear auxiliary power units . SNAP . fission electric cells SNAP 2 SNAP 4 SNAP 8 SNAP 10A SNAP 11 SNAP 3 SNAP 7 SNAP 9A SNAP 11		auxiliary power sources . nuclear auxiliary power units . SNAP . fission electric cells SNAP 4 . space power reactors . fission electric cells SNAP 4 nuclear electric power generation nuclear auxiliary power units . SNAP . fission electric cells . SNAP . fission electric cells . SNAP 4 . space power reactors . fission electric cells . SNAP 4 . nuclear power reactors . fission electric cells . SNAP 4 . nuclear power reactors . space power reactors . space power reactors . space power reactors . fission electric cells
SMS 2 DEF orbit ov Western and is n	Synchronous Meteorological Satellite SMS 1 GOES 2 NOAA satellites  Meteorological satellite in synchronous er Honolulu to give coverage to the US. It was launched in February 1975 o longer operational, but still in orbit. artificial satellites synchronous Earth Observatory satellite SMS 2 . Synchronous Meteorological Satellite SMS 2 . synchronous satellites synchronous Earth Observatory satellite SMS 2 . synchronous Satellites	RT	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 1 SNAP 3 SNAP 1		auxiliary power sources . nuclear auxiliary power units . SNAP . fission electric cells SNAP 4 . space power reactors fission electric cells SNAP 4 nuclear electric power generation . nuclear auxiliary power units . SNAP fission electric cells SNAP 4 . space power reactors fission electric cells SNAP 4 nuclear power reactors fission electric cells SNAP 4 nuclear power reactors space power reactors fission electric cells SNAP 4
SMS 2 DEF orbit ov Western and is n	Synchronous Meteorological Satellite SMS 1 GOES 2 NOAA satellites  Meteorological satellite in synchronous er Honolulu to give coverage to the US. It was launched in February 1975 o longer operational, but still in orbit. artificial satellites . meteorological satellites . Synchronous Earth Observatory satellite SMS 2 . Synchronous Meteorological Satellite SMS 2 . synchronous Earth Observatory satellite SMS 2 . synchronous Earth Observatory satellite SMS 2 . Synchronous Earth Observatory satellite SMS 2 . Synchronous Meteorological Satellite	RT	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 3 . SNAP 7 . SNAP 9A . SNAP 11 . SNAP 13 . SNAP 15 . SNAP 15 . SNAP 17 . SNAP 19 . SNAP 21 . SNAP 21 . SNAP 23 . SNAP 29 . SNAP 50 electric generators heat exchangers nuclear power reactors		auxiliary power sources . nuclear auxiliary power units . SNAP fission electric cells SNAP 4 space power reactors fission electric cells SNAP 4 nuclear electric power generation . nuclear auxiliary power units SNAP fission electric cells SNAP fission electric cells SNAP 4 . space power reactors fission electric cells SNAP 4 . nuclear power reactors fission electric cells SNAP 4 nuclear power reactors space power reactors space power reactors SNAP 4 nuclear reactors
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SMS 2 DEF orbit ov Western and is n GS  RT  SMS (S. USE  SMU (m. USE  S-N dia; UF GS	Synchronous Meteorological Satellite SMS 1 GOES 2 NOAA satellites  Meteorological satellite in synchronous er Honolulu to give coverage to the US. It was launched in February 1975 oo longer operational, but still in orbit. artificial satellites meteorological satellites Synchronous Earth Observatory satellite SMS 2 Synchronous Meteorological Satellite SMS 2 synchronous Satellites SMS 2 synchronous Earth Observatory satellite SMS 2 Synchronous Meteorological Satellite SMS 1 SMS 2 Synchronous Meteorological Satellite SMS 2 Synchronous Meteorologi	∝ SNAP 1	nuclear electric power generation . nuclear auxiliary power units . SNAP . fission electric cells SNAP 2 SNAP 4 SNAP 8 SNAP 10A	GS RT SNAP 7	auxiliary power sources . nuclear auxiliary power units . SNAP fission electric cells SNAP 4 space power reactors fission electric cells SNAP 4 nuclear electric power generation . nuclear auxiliary power units SNAP fission electric cells SNAP fission electric cells SNAP 4 . space power reactors fission electric cells SNAP 4 nuclear power reactors fission electric cells SNAP 4 nuclear power reactors space power reactors fission electric cells SNAP 4 nuclear reactors fission electric cells SNAP 4 space power reactors . space power reactors . space power reactors . space power reactors sission electric cells SNAP 4 space power unit reactors  auxiliary power sources . nuclear auxiliary power units SNAP SNAP 7 electric generators direct power generators . radioisotope batteries
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SMS 2 DEF orbit ov Western and is n GS  RT  SMS (S. USE  SMU (m. USE  S-N dia; UF GS	Synchronous Meteorological Satellite SMS 1 GOES 2 NOAA satellites  Meteorological satellite in synchronous er Honolulu to give coverage to the US. It was launched in February 1975 olonger operational, but still in orbit. artificial satellites meteorological satellites Synchronous Earth Observatory satellite SMS 2 Synchronous Meteorological Satellite SMS 2 Synchronous Earth Observatory satellite SMS 2 Synchronous Earth Observatory satellite SMS 2 Synchronous Earth Observatory satellite SMS 2 Synchronous Meteorological Satellite SMS 2 SOES 2 NOAA satellites huttle) Shuttle Mission Simulator maneuvering units) self maneuvering units grams fatigue diagrams diagrams Jending fatigue cyclic loads fatigue (materials)	∝ SNAP 1	nuclear electric power generation . nuclear auxiliary power units . SNAP . fission electric cells SNAP 2 SNAP 4 SNAP 8 SNAP 8 SNAP 10A SNAP 1	GS RT SNAP 7	auxiliary power sources . nuclear auxiliary power units . SNAP fission electric cells SNAP 4 space power reactors fission electric cells SNAP 4 nuclear electric power generation . nuclear auxiliary power units . SNAP fission electric cells SNAP 4 . space power reactors fission electric cells SNAP 4 . space power reactors fission electric cells SNAP 4 nuclear power reactors space power reactors space power reactors fission electric cells SNAP 4 nuclear power reactors fission electric cells SNAP 4 space power reactors . space power reactors . space power reactors . space power reactors . space power reactors fission electric cells SNAP 4 space power unit reactors  auxiliary power sources . nuclear auxiliary power units . SNAP SNAP 7 electric generators direct power generators . radioisotope batteries
SMS 2 DEF orbit ov Western and is n GS  RT  SMS (S. USE  SMU (m. USE  S-N dia; UF GS	Synchronous Meteorological Satellite SMS 1 GOES 2 NOAA satellites  Meteorological satellite in synchronous er Honolulu to give coverage to the US. It was launched in February 1975 olonger operational, but still in orbit. artificial satellites meteorological satellites Synchronous Earth Observatory satellite SMS 2 Synchronous Meteorological Satellite SMS 2 synchronous Satellites SMS 2 Synchronous Satellites SMS 2 Synchronous Meteorological Satellite SMS 2 Synchronous Meteorological	∝ SNAP 1	nuclear electric power generation . nuclear auxiliary power units . SNAP . fission electric cells SNAP 4 SNAP 4 SNAP 8	GS RT SNAP 7	auxiliary power sources . nuclear auxiliary power units . SNAP fission electric cells SNAP 4 space power reactors fission electric cells SNAP 4 nuclear auxiliary power units . SNAP fission electric cells SNAP 4 . space power reactors . fission electric cells SNAP 4 . space power reactors . fission electric cells SNAP 4 nuclear power reactors . fission electric cells SNAP 4 nuclear power reactors . space power reactors . fission electric cells SNAP 4 nuclear reactors . nuclear power reactors . space power reactors . fission electric cells SNAP 4 space power unit reactors  auxiliary power sources . nuclear auxiliary power units . SNAP SNAP 7 electric generators . direct power generators . radioisotope batteries SNAP 7 nuclear electric power generation
SMS 2 DEF orbit ov Western and is n GS  RT  SMS (S. USE  SMU (m. USE  S-N dia; UF GS	Synchronous Meteorological Satellite SMS 1 GOES 2 NOAA satellites  Meteorological satellite in synchronous er Honolulu to give coverage to the US. It was launched in February 1975 olonger operational, but still in orbit. artificial satellites meteorological satellites Synchronous Earth Observatory satellite SMS 2 Synchronous Meteorological Satellite SMS 2 Synchronous Earth Observatory satellite SMS 2 Synchronous Earth Observatory satellite SMS 2 Synchronous Earth Observatory satellite SMS 2 Synchronous Meteorological Satellite SMS 2 SOES 2 NOAA satellites huttle) Shuttle Mission Simulator maneuvering units) self maneuvering units grams fatigue diagrams diagrams Jending fatigue cyclic loads fatigue (materials)	∝ SNAP 1	nuclear electric power generation . nuclear auxiliary power units . SNAP . fission electric cells SNAP 2 SNAP 4 SNAP 8 SNAP 8 SNAP 10A SNAP 1	GS RT SNAP 7	auxiliary power sources . nuclear auxiliary power units . SNAP . fission electric cells . SNAP 4 . space power reactors . fission electric cells . SNAP 4 nuclear electric power generation . nuclear auxiliary power units . SNAP 4 nuclear electric cells . SNAP 4 . space power reactors . fission electric cells . SNAP 4 . space power reactors . fission electric cells . SNAP 4 nuclear power reactors . fission electric cells . SNAP 4 nuclear power reactors . fission electric cells . SNAP 4 space power reactors . fission electric cells . SNAP 4 space power reactors . fission electric cells . SNAP 4 nuclear power reactors . nuclear power reactors . space power reactors . nuclear power reactors . space power unit reactors . fission electric cells . SNAP 7 electric generators . radioisotope batteries . SNAP 7 thermoelectric generators . sNAP 7

	SNAP 7	thermoelectric generators	. nuclear auxiliary power units
SNAP 8	}	SNAP 11 nuclear electric power generation	SNAP <b>SNAP 23</b>
GS	auxiliary power sources	. nuclear auxiliary power units	electric generators
	. nuclear auxiliary power units	SNAP	. direct power generators
	SNAP fission electric cells	SNAP 11	radioisotope batteries <b>SNAP 23</b>
	SNAP 8	SNAP 13	thermoelectric generators
	space power reactors	GS auxiliary power sources	SNAP 23
	fission electric cells	. nuclear auxiliary power units	nuclear electric power generation
	SNAP 8 nuclear electric power generation	SNAP <b>SNAP 13</b>	. nuclear auxiliary power units
	. nuclear auxiliary power units	electric generators	SNAP <b>SNAP 23</b>
	SNAP	. direct power generators	5.0 25
	fission electric cells	radioisotope batteries	SNAP 27
	SNAP 8 space power reactors	SNAP 13 thermionic converters	GS auxiliary power sources
	fission electric cells	SNAP 13	. nuclear auxiliary power units SNAP
	SNAP 8	nuclear electric power generation	SNAP 27
	. nuclear power reactors	. nuclear auxiliary power units	electric generators
	space power reactors	SNAP	. direct power generators
	fission electric cells SNAP 8	SNAP 13  RT thermionic power generation	radioisotope batteries SNAP 27
	nuclear reactors	n i lilemilonic power generation	thermoelectric generators
	. nuclear power reactors	SNAP 15	SNAP 27
	space power reactors	GS auxiliary power sources	nuclear electric power generation
	fission electric cells	. nuclear auxiliary power units	. nuclear auxiliary power units
RT	SNAP 8 heat exchangers	SNAP <b>SNAP 15</b>	SNAP <b>SNAP 27</b>
• • • • • • • • • • • • • • • • • • • •	space power unit reactors	electric generators	OHAI ZI
	turbogenerators	. direct power generators	SNAP 29
CNIADO		radioisotope batteries	GS auxiliary power sources
SNAP 9	auxiliary power sources	SNAP 15	. nuclear auxiliary power units SNAP
ao	. nuclear auxiliary power units	thermoelectric generators SNAP 15	SNAP 29
	SNAP	nuclear electric power generation	electric generators
	SNAP 9A	. nuclear auxiliary power units	. direct power generators
	electric generators . direct power generators	SNAP	radioisotope batteries
	radioisotope batteries	SNAP 15	SNAP 29 thermoelectric generators
	SNAP 9A	SNAP 17	SNAP 29
	thermoelectric generators	GS auxiliary power sources	nuclear electric power generation
	SNAP 9A	. nuclear auxiliary power units	. nuclear auxiliary power units
	nuclear electric power generation . nuclear auxiliary power units	SNAP <b>SNAP 17</b>	SNAP <b>SNAP 29</b>
	SNAP	electric generators	SIVAF 25
	SNAP 9A	. direct power generators	SNAP 50
CNIAD	0.8	radioisotope batteries	GS auxiliary power sources
SNAP 1 GS	auxiliary power sources	SNAP 17	. nuclear auxiliary power units SNAP
ao	. nuclear auxiliary power units	thermoelectric generators SNAP 17	SNAP 50
	SNAP	nuclear electric power generation	space power reactors
	fission electric cells	. nuclear auxiliary power units	SNAP 50
	SNAP 10A	SNAP	nuclear electric power generation
	space power reactors fission electric cells	SNAP 17	. nuclear auxiliary power units SNAP
	SNAP 10A	SNAP 19	SNAP 50
	electric generators	GS auxiliary power sources	space power reactors
	. direct power generators	. nuclear auxiliary power units	SNAP 50
	thermoelectric generators SNAP 10A	SNAP <b>SNAP 19</b>	. nuclear power reactors
	nuclear electric power generation	electric generators	space power reactors SNAP 50
	. nuclear auxiliary power units	. direct power generators	nuclear reactors
	SNAP	radioisotope batteries	. nuclear power reactors
	fission electric cells SNAP 10A	SNAP 19	space power reactors
	space power reactors	thermoelectric generators SNAP 19	SNAP 50  RT space power unit reactors
	fission electric cells	nuclear electric power generation	The opace power and reactions
	SNAP 10A	. nuclear auxiliary power units	Snapshot satellite
	. nuclear power reactors	SNAP	GS artificial satellites
	space power reactors fission electric cells	SNAP 19	. <b>Snapshot satellite</b> RT SNAP 10A
	SNAP 10A	SNAP 21	THE OWN TOA
	nuclear reactors	GS auxiliary power sources	SNAPTRAN reactor
	. nuclear power reactors	. nuclear auxiliary power units	RT ∞ reactors
	space power reactors fission electric cells	SNAP <b>SNAP 21</b>	SNAP
	SNAP 10A	electric generators	snatching
RT	heat exchangers	. direct power generators	USE spacecraft recovery
	Snapshot satellite	radioisotope batteries	- L
SNAP 1	1	SNAP 21 thermoelectric generators	SNC meteorites (added March 1998)
GS	auxiliary power sources	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 ages
	SNAP 11	SNAP	(less than 1. 3 billion years), which together
	electric generators . direct power generators	SNAP 21	point to a Martian origin. The name of these meteorites is derived from first three known
	radioisotope batteries	SNAP 23	examples Shergotty, Nakhla, and Chassigny.
	SNAP 11	GS auxiliary power sources	UF Martian meteorites
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	Chamatha Nalibla Chamainn				
	Shergotty Nakhla Chassigny meteorites		storms (meteorology)		space psychology Starsite program
GS	celestial bodies	Snow S	S-2 aircraft		urban planning
	. meteorites	USE	agricultural aircraft		urban research
	stony meteorites	an au ml	ow effect	c	∘ variable
	achondrites SNC meteorites	,	ow effect plasma dynamics	oooiol i	solation
RT	chassignites	002	pidoma dynamico	GS	isolation
111	Mars (planet)	snowst	orms	40	. social isolation
	Mars surface	GS	storms	RT	sociology
	nakhlites		. storms (meteorology) snowstorms		
	shergottites	RT	climatology		osychiatry medical science
			precipitation (meteorology)	ao	. psychiatry
	circuit analysis		storm enhancement		social psychiatry
	In electrical or electronic circuits, the n and/or prevention of "sneak circuits"		storm suppression	RT	sociology
	aving latent electrical conditions result-		weather forecasting weather modification	!-!-	
	unapparent stimulus-response relation-		weather modification	<b>sociolo</b> GS	gy sociology
	hich cause unwanted functions or inhibit	SOAC	(electronics)	ao	. social factors
	function.		ed May 2001)		ethnic factors
GS	network analysis . sneak circuit analysis	USE	systems-on-a-chip	RT	anthropology
RT	automatic test equipment	∞ soakin	α		case histories
• • • •	circuit protection	SN	(USE OF A MORE SPECIFIC TERM IS		cities communities
	circuit reliability		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		culture (social sciences)
	critical path method	RT	baths		demography
	electric networks electrical faults		heat treatment		dependence
	reliability engineering		heating		group dynamics
	short circuits		submerging		human relations minorities
	signal flow graphs		water immersion wetting		politics
	trees (mathematics)		wetting		race factors
		soaps			retirement
sneezin	•	RT	detergents		social isolation
GS	reflexes		stearates		social psychiatry systems analysis
	. respiratory reflexes sneezing		surfactants wetting		urban planning
RT	involuntary actions		wording .		
	vasoconstriction	soaring	•	socks	
		RT	climbing flight	GS	clothing
Snellen	tests		coasting flight ∞ flight	RT	. <b>socks</b> fabrics
RT ∘	∘ tests		gliders	111	shoes
	visual acuity		gliding		
			hang gliders	sod	
Snells I			horizontal flight	DEF	The top stratum of soil usually contain-
DEF	A law of geometric optics that defines		man powered aircraft vertical air currents	GS	ssy plants with their matted roots. soils
	ount of bending that takes place when a strikes a refractive boundary (e.g., an		vertical all currents	ao	. sod
	s interface) at a non-normal angle.	Sobole	v space	RT	canopies (vegetation)
	laws		A Banach space whose elements are		farmlands
	. Snells law		is defined in a domain in Euclidean		grasses
RT	geometrical optics		and whose norm measures the size and ness of the functions.		grasslands land
0	optics		algebra		plowing
	refraction refractivity		. vector spaces		
	. o doi.vy		Banach space	sodalite	
snow			Hilbert space	RT	chemical reactions
DEF	A form of ice composed of small white		Sobolev space analysis (mathematics)		photochemical reactions photochromism
or trans	lucent hexagonal crystals of frozen wa-		. function space		priotosi ii siii siii sii
	ned directly by sublimation of atmo-		Banach space	sodar	
	water vapor around solid nuclei at a		Hilbert space	DEF	Meteorological instrument used to
	ature below the freezing point. The crys- w while floating or falling to the ground,		Sobolev space		e the scattering of sound waves by ateric turbulence.
	often agglomerated into snowflakes.		. functional analysis Banach space	RT	acoustic scattering
GS	precipitation (meteorology)		Hilbert space		atmospheric sounding
	. snow		Sobolev space		atmospheric turbulence
RT	acid rain		geometry		Doppler radar
	cirques (landforms) cloud glaciation		. topology		echo sounding meteorological instruments
	graupel		metric space Hilbert space		meteorology
	ice formation		Sobolev space		sound waves
	precipitation measurement	RT	boundary value problems		wind measurement
	slush		Euclidean geometry		wind profiles
	storms (meteorology)	SOC Im	nicroelectronics)	sodium	1
0	anial annihilatan ai		led December 2005)	GS	chemical elements
	erial applicator aircraft S-2B	,	systems-on-a-chip	40	. alkali metals
USE	agricultural aircraft				sodium
		social 1			liquid sodium
snow c		GS	sociology		sodium isotopes
GS	precipitation (meteorology) . snow cover		. social factors ethnic factors		sodium 22 sodium 24
RT	cloud glaciation	RT	anthropology		sodium vapor
	cold weather		crime		metals
	Earth cryosphere		culture (social sciences)		. alkali metals
	storm damage		police		sodium
	storms		race factors		liquid sodium

... sodium isotopes . halides . . liquid metal cooled reactors .... sodium 22 . . chlorides sodium graphite reactors . . . . sodium 24 ... sodium chlorides Hallam Nuclear Power Facility . . sodium vapor . . metal halides nuclear power reactors . . . alkali halides dawsonite electrolyte metabolism . sodium chlorides sodium hydrides liquid metal cooled reactors sodium compounds GS hydrogen compounds . sodium chlorides . hydrides sodium 22 molten salts . . metal hydrides GS chemical elements salt beds ... sodium hydrides . alkali metals ∞ salts sodium compounds . . sodium sodium hydrides sodium chlorodifluoroacetates ... sodium isotopes . . . . sodium 22 acetates sodium hydroxides . sodium chlorodifluoroacetates . nuclides GS bases (chemical) . . isotopes esters . alkalies . . . radioactive isotopes . sodium chlorodifluoroacetates . sodium hydroxides . sodium 22 hvdroxides . . . sodium isotopes sodium chromites . sodium hydroxides .... sodium 22 GS chromium compounds sodium compounds metals sodium chromites . sodium hydroxides . alkali metals sodium compounds . sodium chromites . . sodium . . . sodium isotopes sodium iodides . . . . sodium 22 sodium compounds GS halogen compounds GS sodium compounds . halides sodium 24 . cryolite . . metal halides GS chemical elements . Nembutal (trademark) . . . alkali halides . alkali metals . nepheline .... sodium iodides . . sodium sodium azides . iodine compounds ... sodium isotopes sodium bromides . . iodides .... sodium 24 sodium carbonates .. sodium iodides . sodium chlorides . nuclides sodium compounds sodium chromites sodium iodides . . isotopes . . . radioactive isotopes sodium fluorides sodium gallates . sodium 24 sodium isotopes sodium hydrides . . . sodium isotopes GS chemical elements . . . . sodium 24 sodium hydroxides . alkali metals sodium iodides metals . . sodium . alkali metals sodium nitrates ... sodium isotopes . . sodium . sodium peroxides . . . . sodium 22 . sodium salicylates ... sodium isotopes .... sodium 24 . sodium silicates . . . . sodium 24 . nuclides . . spodumene . . isotopes sodium alloys . . talc ... sodium isotopes GS alloys . . tourmaline . . . . sodium 22 sodium alloys sodium sulfates .... sodium 24 sodium sulfites metals sodium azides RT ∞ alkali metal compounds . alkali metals GS nitrogen compounds bloedite . . sodium . azides (inorganic) ∞ chemical compounds ... sodium isotopes . . sodium azides ∞ metal compounds . . . sodium 22 . azides (organic) . . . . sodium 24 . sodium azides sodium cooling (COOLING WITH SODIUM) sodium compounds sodium nitrates GS sodium azides cooling GS nitrogen compounds sodium cooling RT detonators RT . nitrates coolants explosives . . inorganic nitrates liquid cooled reactors sodium bromides liquid cooling sodium nitrates sodium compounds GS halogen compounds sodium nitrates . bromine compounds sodium fluorides . . bromides halogen compounds .. sodium bromides . fluorine compounds sodium peroxides . . fluorides . halides GS chalcogenides . . . metal fluorides . . bromides . oxides ... sodium bromides sodium fluorides . . anhydrides . halides .. metal halides . . . peroxides . . . alkali halides . . fluorides . sodium peroxides ... sodium bromides . . . metal fluorides . . metal oxides sodium compounds . . sodium fluorides . sodium peroxides sodium bromides . . metal halides sodium compounds . . . alkali halides . sodium peroxides sodium carbonates . . . sodium fluorides carbon compounds . . . metal fluorides sodium reactor experiment . carbonates . sodium fluorides SRE reactor sodium carbonates sodium compounds nuclear reactors sodium fluorides sodium compounds . liquid cooled reactors sodium carbonates . . liquid metal cooled reactors dawsonite sodium gallates ... sodium reactor experiment GS gallium compounds . nuclear research and test reactors sodium channels (biology) gallates . . sodium reactor experiment (added August 2002) sodium gallates USE ion channels (biology) sodium compounds sodium gallates sodium salicylates

sodium graphite reactors

SGR (nuclear reactors)

liquid cooled reactors

nuclear reactors

GS esters

. sodium salicylates

sodium compounds

salicylates
. sodium salicylates

sodium chlorides

halogen compounds . chlorine compounds

... sodium chlorides

. . chlorides

GS

#### . sodium salicylates

#### sodium silicates

GS silicon compounds

. silicates

. . sodium silicates

... spodumene

... talc

. . tourmaline

sodium compounds

sodium silicates

. . spodumene

. . talc

. tourmaline

minerals plagioclase

### sodium sulfates

Sodium compounds containing the -SO4 group.

sodium compounds GS

sodium sulfates

sulfur compounds

. sulfates

.. sodium sulfates

#### sodium sulfites

GS sodium compounds

sodium sulfites

sulfur compounds . sulfites

. . sodium sulfites

# sodium sulfur batteries

DEF One of several types of rechargeable batteries under consideration as power sources for electrically actuated vehicles. This battery uses a solid electrolyte as well as a sodium reservoir made of metal.

GS electric generators

. direct power generators

. . primary batteries

sodium sulfur batteries

electrochemical cells

. electric batteries

. . primary batteries

. . sodium sulfur batteries

RT ∞ electric cells

# sodium vapor

GS chemical elements

. alkali metals

. . sodium

. . sodium vapor

metals

. alkali metals

. . sodium

. sodium vapor

. metal vapors

. sodium vapor

vapors

. metal vapors

sodium vapor

RT mercury vapor

SOFAR

USE sound fixing and ranging

### SOFIA (airborne observatory)

(added March 1990)

SN (STRATOSPHERIC OBSERVATORY FOR

INFRARED ASTRONOMY)
Stratospheric Observatory for IR UF

Astronomy

GS observatories

. astronomical observatories

. SOFIA (airborne observatory)

airborne equipment 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.

SGR (astronomy)

GS celestial bodies

. stars

. . neutron stars

... soft gamma repeaters

. . x ray stars

gamma ray sources (astronomy)
. soft gamma repeaters

x ray sources

. 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

∞ 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

Altair Lunar Lander

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

RT 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

RT

(EXCLUDES WATER SOFTENING)

ĞS softening work softening

annealing deionization

demineralizing digesting

dissolving hardening (materials) ion exchanging

# softness

RT 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.

software tools UF 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

DEF The systematic approach to the development, operation, maintenance, and retirement

computer systems design

computer programming computer programs

> 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

# software reliability

	UNIX (operating system)		rain erosion		tar sands
softwar	e engineering environments		rain impact damage soils	RT	. sod andesite
	programming environments		water erosion	111	anorthosite
			weathering		arid lands
	e reliability		wind effects		ataxite
,	ed January 1993)				barren land
UF	computer program reliability program reliability (computers)	soil ma			basalt
GS	reliability	GS	mapping . soil mapping		bedrock bentonite
0.0	. software reliability	RT	geographic applications program		boreholes
	computer program integrity		ground penetrating radar		breccia
RT	computer programming		maps		carbonaceous rocks
	computer programs		Mars Reconnaissance Orbiter		clays
	computer systems performance		photomapping		coal
	program verification (computers) reliability analysis		soils SPOT (French satellite)		conservation
	software engineering		surveys		cultivation deltas
	systems health monitoring		terrain analysis		diorite
	3		torrain analysis		dunite
	e reuse		chanics		Earth resources
	ed May 1992)		Mechanical properties of unconsoli-		eclogite
GS	utilization . reuse		accumulations of particles produced by ntegration and chemical decomposition		enstatite
	software reuse	of rocks			formations
RT	computer programming	RT	crustal fractures		geology gneiss
	computer programs		fracture mechanics		granite
	productivity		geotechnical engineering		igneous rocks
	software development tools		geotechnical fabrics		illite
	software engineering		rock mechanics		kaolinite
software	a tools	soil mo	icture		land
	software development tools	GS	moisture		landslides
002	oomalo doronopinom toolo	ao	. soil moisture		lava limestone
SOHO		RT	lysimeters		lysimeters
	ed September 1989)		moisture content		magma
	One of the joint NASA/ESA missions		plant stress		minerals
	ing the International Solar Terrestrial  1. The SOHO Mission will investigate the		soil sampling		moldavite
	processes in the solar corona and solar		soils vegetation growth		muskegs
	d the structure and dynamics of the solar		vegetation growth		obsidian olivine
interior.		soil po	llution		peridotite
UF	Solar and Heliospheric Observatory	(add	ed September 1995)		planting
GS	space missions	UF			polyurethane foam
DT	. SOHO Mission	GS	pollution		porous materials
RT	Cluster Mission ESA satellites		. environment pollution soil pollution		pumice
	European space programs	RT	contaminants		pyroxenes
	heliosphere		environmental cleanup		quartz rocks
	international cooperation		ground water		sandstones
٥	o missions		heavy metals		sedimentary rocks
	scientific satellites		industrial wastes		serpentine
	solar corona solar interior		pollution monitoring		shales
	solar observatories		radioactive wastes sediments		soil erosion
	solar wind		toxicity and safety hazard		soil mapping soil moisture
	Transition Region and Coronal		waste disposal		soil science
	Explorer		water pollution		strip mining
					syenite
	miconductors) Semiconductor devices consisting of a	soil sa			trachyte
	ayer coupled to an electrically insulating	(add GS	ed March 1995) sampling		tunneling (excavation)
	sed for silicon-on-insulator semiconduc-	ao	. soil sampling		vadose water
tors.		RT	alkalinity		vegetation growth
UF	silicon-on-insulator semiconductors		Mars surface samples		
GS	electronic equipment		pH factor	solar a	
	. solid state devices semiconductor devices		salinity		Any type of variation in the appearance gy output of the sun.
	SOI (semiconductors)		soil moisture terrain analysis		stellar activity
RT	field effect transistors		terrain analysis	ao	. solar activity
	metal oxide semiconductors	soil sci	ence		faculae
	silicon films	UF	pedology		solar flares
	silicon junctions	RT	agriculture		solar prominences
	silicon transistors		conservation erosion		solar storms
	SIS (semiconductors) SOS (semiconductors)		soils		spicules sunspots
	(Semiconductors)		vegetation growth	RT «	sunspois ∞ activity
soil con	tamination				auroras
USE	soil pollution	soils		c	∞ disturbances
		GS	soils		International Quiet Sun Year
soil ero			. alluvium		interplanetary shock waves
GS	erosion . soil erosion		. dirt . gravels		IRIS satellites
RT	abrasion		. laterites		magnetic disturbances prominences
ш	atmospheric effects		. lunar soil		radio auroras
	deterioration		lunar dust		solar convection (astronomy)
	environment effects		. mud		solar interior
	hydrogeology		. permafrost		solar planetary interactions
	landslides		. sands		starspots
	outliers (landforms)		monazite sands		STEREO (observatory)

tunnel junctions sun Spectrometer irradiance sunspot cycle RT solar collectors NOAA 11 satellite solar activity effects DEF Devices designed to absorb incident NOAA 14 satellite solar radiation and transfer the energy to a fluid RT blackout (propagation) satellite-borne instruments passing through it. Used for solar receivers.  $\infty$  effects HF. solar receivers galactic cosmic rays solar blankets DEF Large, high-temperature, low-mass so-GS heliosphere accumulators . solar collectors interplanetary shock waves lar arrays consisting of ultrathin silicon solar magnetic disturbances cells interconnected, welded, and bonded to reflectors secular variations flexible substances. . solar reflectors solar oscillations GS arrays . solar collectors solar planetary interactions . solar arrays RT concentrators space weather . solar blankets mirrors sudden ionospheric disturbances electric generators photothermal conversion . direct power generators selective surfaces sudden storm commencements sun . . thermionic converters solar dynamic power systems solar blankets solar energy conversion Solar and Heliospheric Observatory RT ∞ blankets space cooling (buildings) USE SOHO Mission spectrophotovoltaics ∞ converters sun sun solar arrays rollup solar arrays Solar Cell Calibration Facility solar companion star DEF One of the spacelab payloads. Used for SCCF. GS USE Nemesis (star) arrays . solar arrays . solar blankets UF SCCF solar compasses electrostatic bonding GS payloads GS measuring instruments payload delivery (STS) Spacelab payloads . indicating instruments photovoltaic conversion . . Solar Cell Calibration Facility . . compasses power modules (STS) solar compasses satellite power transmission navigation aids self shadowing Space Transportation System flights . navigation instruments solar atriums . . compasses . solar compasses solar energy conversion DEF Photovoltaic cells that convert sunlight air navigation space station power supplies into electrical energy. Used for silicon solar cells air traffic control and wraparound contact solar cells. aircraft safety silicon solar cells solar atmosphere airport beacons wraparound contact solar cells all-weather air navigation GS environments GS electric generators . extraterrestrial environments approach indicators . . stellar atmospheres . direct power generators automatic flight control . . . solar atmosphere . . photoelectric generators automatic pilots . . . photovoltaic cells . . . solar transition region beacons Decca navigation display devices . . . . solar cells RT ∞ atmospheres chromosphere .... vertical junction solar cells . solar generators M region distance measuring equipment . . solar cells flight control flight instruments photosphere solar convection (astronomy) solar oscillations . vertical junction solar cells flight paths electronic equipment . solid state devices spicules gyrocompasses . . semiconductor devices stellar structure heliports ... photovoltaic cells homing devices Transition Region and Coronal .... solar cells landing aids . vertical junction solar cells Explorer Ioran photoelectric cells magnetic compasses . photovoltaic cells solar atriums omnidirectional radio ranges . solar cells DEF Open courts within buildings designed position indicators . . vertical junction solar cells for passive solar heating. radar beacons amorphous silicon RT solar arrays radio beacons antireflection coatings solar heating radio navigation carrier lifetime solar reflectors self calibrating omnirange space heating (buildings) carrier transport (solid state) Shoran cells copper indium selenides solar auxiliary power units diffusion length VHF omnirange navigation auxiliary power sources electric cells weather solar auxiliary power units electrostatic bonding . . ASTEC solar turboelectric float zones solar constant generator fuel cells The rate at which solar radiation is electric generators heterojunctions received outside the Earth's atmosphere on a . solar generators homojunctions surface normal to the incident radiation and at .. solar auxiliary power units indium selenides the Earth's mean distance from the sun. ... ASTEC solar turboelectric open circuit voltage constants photodiodes . solar constant generator RT sun photovoltaic conversion rates (per time) p-i-n junctions . flux density solar azimuth quantum efficiency . . radiant flux density satellite power transmission . . . irradiance USE azimuth solar position satellite solar energy conversion . solar constant satellite solar power stations . . . solar flux density Solar Backscatter UV Spectrometer short circuit currents . solar constant solar energy solar flux density DEF A spaceborne spectrometer that mea-SIS (semiconductors) sures solar UV spectral irradiance incident on solar energy conversion solar powered aircraft the Earth and backscattered radiance from the . solar constant Earth and thereby estimates the total atmospheric ozone content of the atmosphere and space station power supplies illuminance spectrophotovoltaics particle flux density the attitude distribution of ozone.

sun

thermionic converters

thermoelectric generators

thermophotovoltaic conversion

GS measuring instruments

. spectrometers

. . Solar Backscatter UV

sun

(added June 1992)

solar convection (astronomy)

(LIMITED TO CONVECTION PHENOMENA OF THE SOLAR ATMOSPHERE AND INTERIOR) SN particles ... electrons corpuscular radiation . . solar electrons . . primary cosmic rays . corpuscular radiation GS convection solar cosmic rays . . energetic particles . stellar convection Advanced Composition Explorer . . . electrons . solar convection (astronomy) electron acceleration solar electrons Benard cells energetic particles . . solar corpuscular radiation convection currents GRIST (telescope) ... solar electrons convective flow . elementary particles sun dynamo theory . . fermions fluid flow solar cycles . . . leptons free convection . . . electrons GS cycles Rayleigh-Benard convection solar cycles . . . . . solar electrons solar activity . sunspot cycle RT sun solar atmosphere International Quiet Sun Year solar interior IRIS satellites solar energy solar magnetic field Solar energy

SN (LIMITED TO DISCUSSIONS OF THE RADIANT ENERGY ORIGINATING FROM THE SUN. FOR SOLAR ENERGY TECHNOLOGIES REFER TO 'SOLAR ENERGY CONVERSION' AND ITS ASSOCIATED TERMS)

DEF The radiant energy originating from the sun. Approximately 998 of solar energy lies between the wavelengths of 300 to 3,500 nm. secular variations solar physics sunspots solar converters twenty-seven day variation USE solar generators solar diameter solar cooling Observable dimension of the sun. Conversion of solar energy into refrigastrometry eration energy. GS solar energy ∞ science . solar flux GS cooling solar eclipses . solar cooling . solar flux density RT cooling systems . . solar constant solar disk domestic energy . insolation USE sun energy technology RT ∞ energy residential energy solar dynamic power systems IRIS satellites solar energy conversion Electric power systems using a solar solar radiation space cooling (buildings) heated working fluid to drive a turboalternator. sun sunlight Primary applications are for space stations and Surface Meteorology and Solar spacecraft. solar corona GS electric generators Energy project GS coronas . solar generators . stellar coronas solar energy absorbers solar dynamic power systems . . solar corona GS absorbers (materials) electric power supplies . . . coronal holes solar energy absorbers solar dynamic power systems . . coronal loops Brayton cycle electromagnetic absorption RT chromosphere heat storage photothermal conversion coronal mass ejection photothermal conversion selective surfaces electric corona Rankine cycle solar collectors interplanetary shock waves Trombe walls magnetic clouds solar energy conversion solar thermal electric power plants nebulae solar energy conversion SOHO Mission GS energy conversion space station power supplies solar transition region spacecraft power supplies . solar energy conversion stellar structure . . photothermal conversion Stirling cycle . . . thermophotovoltaic conversion Transition Region and Coronal . . photovoltaic conversion solar dynamics Explorer . . . thermophotovoltaic conversion USE helioseismology . solar total energy systems solar corpuscular radiation solar eclipses RT cogeneration solar streams Obscurations of the light of the sun by ∞ conversion DFF GS extraterrestrial radiation energy technology the moon. . solar radiation GS eclipses heterojunction devices . . solar corpuscular radiation solar eclipses hydrogen production phase change materials photoelectric generators solar electrons occultation . . . solar neutrinos . lunar occultation . . . solar neutrons photoelectrochemical devices . solar eclipses . . . solar protons renewable energy lunar shadow particles solar diameter solar arrays . corpuscular radiation solar cells sun ... solar corpuscular radiation solar collectors . . . solar electrons solar electric propulsion solar cooling ... solar neutrinos GS propulsion solar dynamic power systems . . . solar neutrons electric propulsion solar generators solar heating . . solar protons solar electric propulsion RT Advanced Composition Explorer . low thrust propulsion solar-pumped lasers M region . . solar propulsion space cooling (buildings) ∞ radiation ... solar electric propulsion solar planetary interactions . spacecraft propulsion sudden storm commencements . . solar propulsion solar faculae .. solar electric propulsion USE faculae Wind/GGS spacecraft Deep Space 1 Mission solar powered aircraft solar flares solar cosmic rays solar thermal propulsion DEF A rapid release of electromagnetic (visible, radio, ultraviolet, x ray) and particulate Cosmic rays supposedly originating in space station propulsion (protons, electrons) energy from the sun. Flares the sun. extraterrestrial radiation are classified according to the optically observed area of the solar surface covered, frang-. primary cosmic rays solar electrons . . solar cosmic rays ing from zero for the smallest to 3 for the largest, GS extraterrestrial radiation . solar radiation . solar radiation and their intensity, either faint, noraml, or bril-. solar cosmic rays . . solar corpuscular radiation liant ionizing radiation . solar electrons stellar activity

particles

. charged particles

. . energetic particles

. solar activity

. . solar flarés

stellar flares

. cosmic rays

. . primary cosmic rays

... solar cosmic rays

	solar flares	turbogenerators	sun
RT	coronal loops		
	coronal mass ejection	solar granulation	solar magnetic field
	flare stars	GS photosphere	UF heliomagnetism
000	flares	solar granulation	GS magnetic fields
000	flash	RT Benard cells	. stellar magnetic fields
	Forbush decreases	brightness distribution	solar magnetic field
	force-free magnetic fields	convection currents	RT electromagnetic fields
	interplanetary shock waves	limb brightening	force-free magnetic fields
	IRIS satellites	sun	interplanetary magnetic fields
	magnetic disturbances	surface layers	magnetic field reconnection
	•		solar convection (astronomy)
	Solar Maximum Mission	temperature effects	· · · · · · · · · · · · · · · · · · ·
	solar neutrons		SUN Transition Region and Caronal
	sudden storm commencements	solar gravitation	Transition Region and Coronal
	sun	UF evection	Explorer
	sunspots	GS gravitation	Out the transfer of Ministry
		. stellar gravitation	Solar Maximum Mission
solar flu		solar gravitation	DEF Use of the multimission modular
SN	(LIMITED TO ENERGY OR PARTICLES	RT sun	spacecraft for the study of solar particles, emis-
	EMITTED FROM THE SUN PER UNIT TIMESEE SOLAR FLUX DENSITY FOR		sions, and flares.
	ENERGY OR PARTICLE EMISSION OR	solar heating	GS space missions
	DETECTION RATE PER UNIT AREA)	GS heating	. Solar Maximum Mission
GS	rates (per time)	. solar heating	Solar Maximum Mission-A
	. flux (rate)	RT bioconversion	RT ∞ flares
	solar flux	hydrothermal systems	flux density
	solar energy	insolation	gamma ray spectrometers
	. solar flux	phase change materials	∞ missions
RT	heat flux	radiant heating	multimission modular spacecraft
	limb brightening	•	polarimeters
	sun	residential energy	programs
		solar atriums	solar flares
solar flu	x density	solar energy conversion	space programs
SN	(LIMITED TO SOLAR ENERGY OR	space heating (buildings)	sun
	PARTICLE EMISSION OR DETECTION	sun	
	RATE UNIT AREASEE SOLAR FLUX FOR	sunlight	ultraviolet spectrometers
CC	EMISSION RATE PER UNIT TIME)	Trombe walls	Ulysses mission
GS	rates (per time)		Out of Market and Miles to a A
	. flux density	solar houses	Solar Maximum Mission-A
	radiant flux density	DEF Habitable buildings designed with	DEF The solar maximum mission space-
	solar flux density	large expanses of glass or other transparent	craft. Used for SMM-A.
	solar constant	materials to collect solar radiation for heating.	UF <i>SMM-A</i>
	solar energy	RT buildings	GS space missions
	. solar flux density	domestic energy	. Solar Maximum Mission
	solar constant	energy technology	Solar Maximum Mission-A
RT	electron flux density		RT ∞ missions
	Helios satellites	heat storage	anges exploration
	i lelios salelliles		Space exploration
	illuminance	residential energy	space exploration ∞ spacecraft
	illuminance	space heating (buildings)	∞ spacecraft
	illuminance irradiance	space heating (buildings) sun	
	illuminance irradiance limb brightening	space heating (buildings)	∞ spacecraft sun
	illuminance irradiance limb brightening luminance	space heating (buildings) sun	∞ spacecraft sun Solar Mesosphere Explorer
	illuminance irradiance limb brightening luminance luminous intensity	space heating (buildings) sun	∞ spacecraft sun Solar Mesosphere Explorer DEF A satellite whose experiments pro-
	illuminance irradiance limb brightening luminance luminous intensity particle flux density	space heating (buildings) sun Trombe walls	∞ spacecraft     sun  Solar Mesosphere Explorer     DEF A satellite whose experiments provided a comprehensive study of atmospheric
	illuminance irradiance limb brightening luminance luminous intensity particle flux density proton flux density	space heating (buildings) sun Trombe walls solar instruments	∞ spacecraft sun  Solar Mesosphere Explorer  DEF A satellite whose experiments provided a comprehensive study of atmospheric ozone and the processes which form and de-
	illuminance irradiance limb brightening luminance luminous intensity particle flux density proton flux density radiance	space heating (buildings) sun Trombe walls  solar instruments GS solar instruments	∞ spacecraft     sun  Solar Mesosphere Explorer  DEF A satellite whose experiments provided a comprehensive study of atmospheric ozone and the processes which form and destroy it. The satellite was launched in October of
	illuminance irradiance limb brightening luminance luminous intensity particle flux density proton flux density radiance radiancy	space heating (buildings) sun Trombe walls  solar instruments GS solar instruments . spectroheliographs RT celescopes	∞ spacecraft sun  Solar Mesosphere Explorer  DEF A satellite whose experiments provided a comprehensive study of atmospheric ozone and the processes which form and destroy it. The satellite was launched in October of 1981. On May 15, 1989, the mission was termi-
	illuminance irradiance limb brightening luminance luminous intensity particle flux density proton flux density radiance radiancy radiation pressure	space heating (buildings) sun Trombe walls  solar instruments GS solar instruments . spectroheliographs RT celescopes filtergrams	∞ spacecraft sun  Solar Mesosphere Explorer     DEF A satellite whose experiments provided a comprehensive study of atmospheric ozone and the processes which form and destroy it. The satellite was launched in October of 1981. On May 15, 1989, the mission was terminated due to battery problems.
	illuminance irradiance limb brightening luminance luminous intensity particle flux density proton flux density radiance radiancy	space heating (buildings) sun Trombe walls  solar instruments GS solar instruments . spectroheliographs RT celescopes filtergrams optical measuring instruments	Spacecraft sun  Solar Mesosphere Explorer     DEF A satellite whose experiments provided a comprehensive study of atmospheric ozone and the processes which form and destroy it. The satellite was launched in October of 1981. On May 15, 1989, the mission was terminated due to battery problems.  GS artificial satellites
	illuminance irradiance limb brightening luminance luminous intensity particle flux density proton flux density radiance radiancy radiation pressure sun	space heating (buildings) sun Trombe walls  solar instruments GS solar instruments . spectroheliographs RT celescopes filtergrams optical measuring instruments radiation measuring instruments	Spacecraft sun  Solar Mesosphere Explorer  DEF A satellite whose experiments provided a comprehensive study of atmospheric ozone and the processes which form and destroy it. The satellite was launched in October of 1981. On May 15, 1989, the mission was terminated due to battery problems.  GS artificial satellites     . scientific satellites
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•	ay Galaxy		solar physics		solar activity effects
Nemesis		color o	rhito		solar corpuscular radiation
solar sys star clus		solar o	(RESTRICTED TO ORBITS AROUND THE		solar wind solar wind velocity
stars			SUN)		Solar Willa Volocity
sun		UF	heliocentric orbits	solar pl	lasma (radiation)
		GS	planetary motion orbits	USE	solar wind
solar neutrinos		do	. solar orbits	colar n	onds (heat storage)
	particles originating from in the core of the sun.	RT	aphelions		Large, shallow ponds covered with
	restrial radiation		circular orbits		ansparent plastic shields and used for
. solar ra		٥	Earth motion		ng and storing solar heat for conversion
solar	corpuscular radiation		ecliptic elliptical orbits		ric power.
	r neutrinos		HEOS satellites	RI	electric generators energy conversion
particles	cular radiation		interplanetary trajectories		ponds
	corpuscular radiation	۰	• motion		reservoirs
	r neutrinos		orbital resonances (celestial		sun
	ntary particles		mechanics) perihelions	ooler n	acition
fermio			protoplanets	solar p	solar azimuth
lepto			spacecraft orbits	GS	position (location)
	olar neutrinos		sun		solar position
RT astronor	nical models		transfer orbits	RT	astrolabes
astrophy		solar o	scillations		celestial navigation
	reactions	DEF	Irregular oscillations in the solar atmo-		equinoxes seasons
stellar m sun	loueis	sphere.			solstices
	nteracting massive particles	GS	oscillations		sun
,	3 p		. stellar oscillations solar oscillations		zenith
solar neutrons			stellar motions	colar no	owar ganaration
	estrial radiation		. stellar oscillations		ower generation solar generators
. solar ra	adiation corpuscular radiation		solar oscillations	002	generatore
	r neutrons	RT	astronomical models		ower satellites
particles			atmospheric models		Proposed very large space structures
	cular radiation		cataclysmic variables solar activity effects		ng of hundreds of square miles of solar collectors and/or photovoltaic convert-
	corpuscular radiation		solar atmosphere		structed or assembled in space. Power
	r neutrons ntary particles		stellar models		be transmitted to Earth in microwave
fermio			sun	form.	
neut			variable stars	GS	artificial satellites
	lar neutrons	solar p	arallax	RT	. solar power satellites large space structures
	particles		The angle at the sun subtended by the		power beaming
neutro	ons or neutrons		ial diameter of the Earth.		satellite power transmission
	flux density	GS	parallax		sun
solar flai		RT	. solar parallax astronomy	colar no	owar courage
		п	stellar parallax		ower sources solar generators
solar noise			sun		<b>3</b>
USE solar ra	dio emission				owered aircraft
solar oblateness		solar p	•		Aircraft powered by solar energy.
RT oblate s		ties of t	The study of the structure and activi-	nı °	∞ aircraft solar cells
sun		GS	astrophysics		solar electric propulsion
			. stellar physics		solar propulsion
solar observator GS observat		рт	solar physics		sun
	omical observatories	RT	filtergrams helioseismology	solar p	rohes
	observatories		International Quiet Sun Year		unmanned spacecraft
OSC			photosphere		. space probes
AO		۰	o physics		solar probes
OS OS			plasmas (physics) ∘ science		Helios 1 Helios 2
08		0	solar convection (astronomy)		Helios 2
OS	6O-4		solar interior		Helios B
OS			solar optical telescope		Starprobe spacecraft
OS OS			Spartan satellites	DT	Sunblazer space probe
08			Sun Transition Region and Coronal	RI	Helios Project Pioneer space probes
08			Transition Region and Coronal Explorer		sun
	ole Occulter Facility				Ulysses mission
	REO (observatory)		lanetary interactions		•
RT coronag SOHO N			The interactions and subsequent ef-		rominences
sun	711551011		used by the interactions of solar activity wind with a planet, its magnetic field, its		Filamentlike protuberances from the sphere of the sun. Used for filaments
	n Region and Coronal		here, or natural satellites.	(solar p	
	lorer	GS	solar planetary interactions	UF	filaments (solar physics)
			. solar terrestrial interactions	GS	prominences
solar optical tele	escope lass, high resolution solar tele-	RT	Earth magnetosphere		. solar prominences stellar activity
	SA had planned to operate on		magnetic disturbances magnetosheath		stellar activity . solar activity
	elab during the mid and late		Nozomi Mars Orbiter		solar prominences
1980s. Used for S			planetary atmospheres	RT	chromosphere
UF SOT	00		planetary magnetic fields		sun
GS telescop	es orne telescopes		planetary magnetospheres planetary magnetotails	solar n	ropulsion
	optical telescope		plasma interactions	GS	
	truments		solar activity		. low thrust propulsion

	solar propulsion	zodiacal light	solar radio bursts
	solar electric propulsion	Zodidodi figiti	type 2 bursts
	solar thermal propulsion	Solar Radiation 1 satellite	type 3 bursts
	. spacecraft propulsion	GS artificial satellites	type 4 bursts
	solar propulsion	. Solar Radiation 1 satellite	type 5 bursts
	solar electric propulsion	RT galactic radiation	. solar radiation
	solar thermal propulsion	∞ radiation	solar radio emission
RT	solar powered aircraft	sun	solar radio bursts
	sun	Color Rediction 2 actallite	type 2 bursts
		Solar Radiation 3 satellite GS artificial satellites	type 3 bursts
solar pi		. Solar Radiation 3 satellite	type 4 bursts
GS	extraterrestrial radiation . solar radiation	RT galactic radiation	type 5 bursts
	solar corpuscular radiation	∞ radiation	RT interplanetary shock waves
	solar protons	sun	sun
	particles		
	. charged particles	solar radiation shielding	solar radio emission
	protons	GS protection	DEF Radiation at radio frequencies originat-
	solar protons	radiation protection	ing from the sun or its corona. Used for solar
	. corpuscular radiation	radiation shielding	noise and solar radio waves.
	solar corpuscular radiation	solar radiation shielding	UF solar noise
	solar protons	shielding	solar radio waves
	. elementary particles	. radiation shielding	GS electromagnetic radiation
	. fermions	solar radiation shielding	. radio waves
	protons	RT ∞ radiation	extraterrestrial radio waves solar radio emission
	solar protons	satellite temperature	solar radio emission
RT	baryons	spacecraft shielding	type 2 bursts
	sun	sun	type 2 bursts
		a alam madia harmata	type o buists
	dar echoes	solar radio bursts	type 4 buists
GS	echoes	DEF Sudden increases in the flux from the	radio emission
	. radar echoes	sun at radio frequencies. GS bursts	solar radio emission
БТ	solar radar echoes	GS bursts . radio bursts	solar radio bursts
RT	sun	solar radio bursts	type 2 bursts
solar ra	distion	type 2 bursts	type 3 bursts
DEF	The total electromagnetic radiation	type 2 bursts	type 4 bursts
	by the sun.	type 6 bursts	type 5 bursts
GS	extraterrestrial radiation	type 5 bursts	emission
0.0	. solar radiation	electromagnetic radiation	. radio emission
	circumsolar radiation	. radio waves	solar radio emission
	solar corpuscular radiation	extraterrestrial radio waves	solar radio bursts
	solar electrons	radio bursts	type 2 bursts
	solar neutrinos	solar radio bursts	type 3 bursts
	solar neutrons	type 2 bursts	type 4 bursts
	solar protons	type 3 bursts	type 5 bursts
	solar cosmic rays	type 4 bursts	extraterrestrial radiation
	solar radio emission	type 5 bursts	. extraterrestrial radio waves
	solar radio bursts	solar radio emission	solar radio emission solar radio bursts
	type 2 bursts	solar radio bursts	solar radio bursts
	type 3 bursts	type 2 bursts	type 2 bursts
	type 4 bursts	type 3 bursts	type 4 bursts
	type 5 bursts	type 4 bursts	type 5 bursts
	solar wind solar x-rays	type 5 bursts radio emission	. solar radiation
	sunlight	radio bursts	solar radio emission
RT	aerospace environments	solar radio bursts	solar radio bursts
	albedo	type 2 bursts	type 2 bursts
	atmospheric refraction	type 3 bursts	type 3 bursts
	circumsolar telescopes	type 4 bursts	type 4 bursts
	climatology	type 5 bursts	type 5 bursts
	cloud cover	solar radio emission	RT coronal holes
	corpuscular radiation	solar radio bursts	cosmic noise
	cosmic noise	type 2 bursts	decimeter waves
	cosmic rays	type 3 bursts	electromagnetic noise
	dayglow	type 4 bursts	millimeter waves radio bursts
	electromagnetic radiation	type 5 bursts	radio bursis
	extreme ultraviolet radiation	emission	
	gegenschein	. radio emission	solar radio waves
	infrared radiation	radio bursts	USE solar radio emission
	insolation	solar radio bursts	
	ionizing radiation IRIS satellites	type 2 bursts	solar receivers
	light (visible radiation)	type 3 bursts type 4 bursts	USE solar collectors
	long wave radiation	type 4 bursts	
	longitudinal waves	solar radio emission	solar reflectors
	photosynthetically active radiation	solar radio bursts	GS reflectors
~	radiation	type 2 bursts	. solar reflectors
	radiation belts	type 3 bursts	solar collectors
	radiation pressure	type 4 bursts	solettas
	radiative transfer	type 5 bursts	RT focusing
	radio waves	extraterrestrial radiation	heat shielding
	rectennas	. extraterrestrial radio waves	heliostats
	sky brightness	radio bursts	mirrors
	solar energy	solar radio bursts	parabolic reflectors
	solar-pumped lasers	type 2 bursts	paraboloid mirrors
	stellar radiation	type 3 bursts	photothermal conversion
	sun	type 4 bursts	radiant flux density
	thermal radiation	type 5 bursts	solar atriums
	ultraviolet radiation	solar radio emission	spacecraft radiators

	sun		infrared spectra	c	∞ systems
			line spectra		Tempel 2 comet
solar r			Lyman spectra		terrestrial planets
	Carrington rotation		molecular spectra		Toro asteroid
GS	gyration		oxygen spectra		trans-Neptunian objects
	. rotation		sun		Venus surface
	stellar rotation solar rotation		ultraviolet spectra visible spectrum		Vesta asteroid
	stellar motions		x ray spectra		Voyager 1977 mission West comet
	. stellar rotation		x ray spectra		West comet
	solar rotation	solar s	pectrometers		
RT	sun	GS	measuring instruments		ystem evolution
	twenty-seven day variation		. radiation measuring instruments		led January 1991)
			actinometers		The origin and development of the
solar s			solar spectrometers	solar sy	evolution (development)
GS	sails		. spectrometers	ds	. solar system evolution
	. solar sails		. solar spectrometers	RT	Genesis mission
RT	propulsion	RT			Kuiper belt
	space flight spacecraft propulsion		emission spectra		lunar evolution
	sun		filter wheel infrared spectrometers infrared spectrometers		planetary evolution
	Suii		spectroheliographs		planetary systems
solar s	ea power plants		sun		planets
GS	electric generators		ultraviolet spectrometers		protoplanetary disks
	. direct power generators				solar nebula
	thermoelectric generators	solar s	torms		solar system
	solar sea power plants	GS	stellar activity		stellar evolution
RT	electric power plants		. solar activity		sun
	energy conversion		solar storms		
•	∞ generators		storms	solar te	emperature
	ocean temperature	DT	. solar storms		temperature
	ocean thermal energy conversion	RI	Forbush decreases		solar temperature
•	∞ power plants		ionospheric storms	RT	solar transition region
	solar generators		magnetic storms		sun
	sun		noise storms sun		
solar sa	eismology		Suii	solar te	errestrial interactions
	helioseismology	solar st	reams		solar planetary interactions
002	neneedicinelegy		solar corpuscular radiation	GO	. solar terrestrial interactions
solar se	elective coatings			RT	Cluster Mission
	selective surfaces	solar s	ystem		corpuscular radiation
		DEF	The sun and other celestial bodies		Earth magnetosphere
solar s	ensors	within it	s gravitational influence, including plan-		∞ flares
UF	sun sensors	ets, ast	eroids, satellites, comets, and meteors.		∞ interactions
RT	attitude control	GS	celestial bodies		International Geosphere-Biosphere
	guidance sensors		. solar system		program
	IRIS satellites		planetary systems		magnetic disturbances
	navigation aids		. solar system		magnetic storms
	navigation instruments	RT			magnetosheath
	star trackers		Amor asteroid		Polar/GGS spacecraft
	sun tracking (position)		Apollo asteroids Arend-Roland comet		space weather
	tracking (position)		asteroid belts		STEREO (observatory)
enlar e	imulation		asteroid capture		storms
	simulation		asteroids		sun
ao	. solar simulation		Brorsen-Metcalf comet		sunspots weather
RT	space environment simulation		celestial mechanics		Wind/GGS spacecraft
	sun		Charon		Willa/GGO Spaceciali
	thermal simulation		Chiron		
			comet heads		errestrial Relations Observatory
solar s	imulators		comet nuclei		led July 2007)
DEF	Devices which produce thermal en-		comet tails	USE	STEREO (observatory)
ergy, ed	quivalent in intensity and spectral distri-		comets		
	to that from the sun, used in testing		Earth-Moon system	solar ti	hermal electric power plants
	ls and space vehicles.		gas giant planets		The use of solar energy to generate
GS	simulators		Giacobini-Zinner comet		for producing electricity.
	. environment simulators		Grigg-Skjellerup comet		electric power plants
БТ	solar simulators		Halley's comet		solar thermal electric power
RT	•		Humason comet		plants
	sun		IRAS-Araki-Alcock comet	RT	photothermal conversion
	test facilities		Jupiter satellites		∞ power plants
solar s	nootra		Kohoutek comet Kuiper belt		solar dynamic power systems
	spectra		Mercury surface		thermal energy
ao	. radiation spectra		meteoroids		
	electromagnetic spectra		Morehouse comet	solar ti	hermal propulsion
	stellar spectra		Mrkos comet		Proposed energy source for spacecraf
	solar spectra		natural satellites		ion by passing hydrogen through a hea
RT	absorption spectra		Oort cloud		ger placed at the focal point of a large
	astronomical spectroscopy		planetary geology		lic dish solar concentrator mirror.
	continuous spectra		planets		propulsion
	coronas		protoplanets		low thrust propulsion
	D lines		Quaoar		solar propulsion
	emission spectra		Rhea (astronomy)		solar thermal propulsion
	filtergrams		Saturn rings		. spacecraft propulsion
	Fraunhofer lines		Schwassmann-Wachmann comet		solar propulsion
	H alpha line		solar nebula		solar thermal propulsion
	H beta line		solar neighborhood	RT	propulsion system performance
	H gamma line		solar system evolution		solar electric propulsion
	H lines		sun		sun

solar total energy systems Wind/GGS spacecraft ∞ electric equipment DEF Systems for converting solar energy electric relays directly into electrical and thermal energy. solar wind velocity electric switches GS energy conversion GS dynamic characteristics hydraulic control . solar energy conversion . flow characteristics off-on control . solar total energy systems . . flow velocity solenoids . . solar wind velocity total energy systems . solar total energy systems rates (per time) solenoids (EXCLUDES METEOROLOGICAL SOLENOIDS) RT ∞ conversion . flow velocity . solar wind velocity direct power generators RT actuators ∞ energy wind velocity electric relays . . solar wind velocity sun electromagnets ∞ systems velocity magnet coils . flow velocity solenoid valves . . solar wind velocity solar transition region toroidal plasmas . wind velocity (added September 1993) . solar wind velocity solettas DEF A layer of the solar atmosphere only a alpha particles few hundred miles thick between the chromo-DEF Orbiting solar mirrors (reflectors). Earth magnetosphere magnetic disturbances sphere and the corona across which the tem-GS mirrors perature rises rapidly from a few times 10(exp 4) . solettas magnetohydrodynamic flow K to the order of 10(exp 6) K. reflectors solar planetary interactions GS environments . solar reflectors stellar winds . extraterrestrial environments .. solettas sun . . stellar atmospheres RT ∞ platforms velocity measurement . . . solar atmosphere ∞ spacecraft ... solar transition region solar x-ravs RT chromosphere sol-gel processes electromagnetic radiation GS solar corona RT alkoxides . x rays ceramic nuclear fuels solar temperature . solar x-ravs nuclear fuels Transition Region and Coronal extraterrestrial radiation Explorer ∞ processes . solar radiation xerogels . solar x-rays ionizing radiation solar velocity solid argon GS rates (per time) . x rays USE solidified gases . solar velocity . solar x-rays coronal holes velocity solid cryogen cooling sun . solar velocity Cooling with solidified cryogenic fluids. RT sun cooling solar-pumped lasers . solid cryogen cooling solar lasers cryogenic fluids solar wind GS stimulated emission devices cryogenics Streams of plasma flowing approxi-. lasers liquefied gases mately radially outward from the sun. Used for . solar-pumped lasers solar plasma (radiation). laser pumping solid cryogens solar plasma (radiation) optical pumping Solidified cryogenic fluids. extraterrestrial radiation solar energy conversion GS gases . solar radiation solar radiation . solidified gases . . solar wind . . solid cryogens particles soldered joints GS joints (junctions) . solid nitrogen . charged particles solids . . energetic particles . metal joints . solidified gases . . . plasmas (physics) . soldered joints . . solid cryogens .... space plasmas beam leads . . solid nitrogen ..... solar wind bonded joints RT cooling systems . corpuscular radiation butt joints cryogenic equipment . energetic particles lap joints cryogenics . . . plasmas (physics) soldering liquid nitrogen . . . . space plasmas . . . . solar wind soldering solid electrodes Advanced Composition Explorer GS soldering GS electrodes AMPTE (satellites) ultrasonic soldering solid electrodes Chapman-Ferraro problem bonding transconductance Cluster Mission brazing comet tails fluxes solid electrolytes coronal holes heat affected zone Single crystals, certain alloys, alkaline coronal mass ejection joining metals, and other compact compounds used in cosmic plasma laser welding galvanic cells (batteries). galactic cosmic rays low temperature brazing GS conductors Genesis mission metal bonding . electrolytes Grigg-Skjellerup comet metal-metal bonding . solid electrolytes heliosphere sealing solid oxide fuel cells hydrogen plasma soldered joints interplanetary gas solders solid lubricants interplanetary medium welding (EXCLUDES SEMISOLIDS SUCH AS SN interplanetary shock waves GREASES) M region solders GS lubricants magnetic clouds solid lubricants GS alloys magnetic sails solders binders (materials) gas lubricants magnetopause lead alloys magnetosheath sealers graphite planetary magnetotails soldering self lubricating materials plasmapause tin allovs

zinc alloys

solenoid valves

electric control

automatic control valves

valves

solenoid valves

GS

Polar/GGS spacecraft

solar planetary interactions

radiation pressure SOHO Mission

stellar winds

∞ radiation

sun

# 895

solid mechanics

GS mechanics (physics)

. solid mechanics

. fracture mechanics

continuum mechanics

finite element method

computational mechanics

mechanical properties meshfree methods science solids structural analysis solid nitrogen GS chemical elements . nitrogen . solid nitrogen gases . nitrogen . . solid nitrogen . solidified gases . . solid cryogens . solid nitrogen solids . solidified gases . . solid cryogens . . solid nitrogen cryogenics refrigerants solid oxide fuel cells (added December 1995) electric generators . direct power generators . . fuel cells . . solid oxide fuel cells electrochemical cells . fuel cells . solid oxide fuel cells oxides solid electrolytes solid phases solid phases GS Laves phases eutectics gas-metal interactions gas-solid interfaces liquid phases liquid-solid interfaces liquidus metallic hydrogen phase diagrams phase separation (materials) ∞ phases solidified gases solidus syntectic alloys solid propellant combustion The burning of solid propellants by rapid oxidation and production of expanding gases, heat, and light. GS combustion . propellant combustion solid propellant combustion . . solid propellant ignition burning rate combustion stability erosive burning fuel combustion heat generation metal combustion propellant chemistry propellant consumption solid propellant ignition combustion . propellant combustion . . solid propellant combustion ... solid propellant ignition ignition solid propellant ignition hybrid propellants hypergolic rocket propellants igniters ignition temperature inhibitors metal combustion pyrophoric materials sauibs solid propellant rocket engines

DEF 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 . . . 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

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 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

Mace missiles Matra missile Mauler missile

Loki rocket vehicle

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

Redeye missile

Phoenix sounding rocket polaris missiles RAM B launch vehicle

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 z missiles
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

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.

GS propellants

solid propellants

. . case bonded propellants . . composite propellants

. . nitramine propellants

. . plastic propellants

. . solid rocket propellants

double base rocket propellants

. . . 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 RDX

rocket propellants storable propellants

solid rocket binders

GS additives

. propellant additives

. . propellant binders solid rocket binders

binders (materials) . propellant binders

glycidyl azide polymer plasticizers

Solid Rocket Boosters (Space Shuttle) USE Space Shuttle Boosters

solid rocket propellants

propellants

. rocket propellants

solid rocket propellants

	double base rocket propellants		NDM semiconductor devices		. lasers
	HMX		neuristors		. solid state lasers
	HTPB propellants		parametric diodes		aluminum gallium arsenide lasers
	metal propellants		photodiodes		DBR lasers
	. solid propellants		photovoltaic cells		fiber lasers
	. solid rocket propellants		solar cells		gallium arsenide lasers
	double base rocket propellants		vertical junction solar cells		quantum cascade lasers
	HMX		Schottky diodes		quantum well lasers
	HTPB propellants		semiconductor lasers		ruby lasers YAG lasers
RT	metal propellants ammonium perchlorates		aluminum gallium arsenide lasers		YLF lasers
n i	burning rate		gallium arsenide lasers	RT	continuous wave lasers
	case bonded propellants		quantum cascade lasers	п	distributed feedback lasers
	composite propellants		quantum vell lasers		infrared lasers
	Domino propellants		YLF lasers		laser cavities
	gelled rocket propellants		SOI (semiconductors)		Q switched lasers
	hybrid propellants		thermistors		semiconductor lasers
	liquid rocket propellants		thyristors		surface emitting lasers
	monopropellants		silicon controlled rectifiers		3
	potassium perchlorates		transferred electron devices	∞ solid s	tate physics
	propellant grains		transistor amplifiers	SN	(USE OF A MORE SPECIFIC TERM IS
	RDX		transistors		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)
	rocket engines		bipolar transistors	DEF	The study of the physical structure and
	slurry propellants		field effect transistors		es of solid matter, including electrical
aalid ra	tation		charge flow devices		ion in metal crystals and semiconduc-
solid ro	rotating bodies		JFET	tors, su	perconductivity, and photoconductivity.
USE	rotating bodies		MODFETS	RT	condensed matter physics
solid s	olutions		high electron mobility transistors		crystallography
GS	mixtures		MODFETS		electrical properties
0.0	. solutions		junction transistors JFET		electron mobility
	solid solutions		phototransistors		energy gaps (solid state)
	solids		silicon transistors		forbidden transitions
	. solid solutions		SOS (semiconductors)		hole mobility
RT	aging (metallurgy)		single electron transistors		magnetic properties
	alloying		cascode devices		optical properties
	alloys		quantum well infrared	٥	o physics
	antiphase boundaries		photodetectors		quantum electronics
	cluster variation method		resonant tunneling diodes		resonant tunneling diodes science
	liquid phases		TRAPATT devices	0	semiconductors (materials)
	liquidus		varactor diodes		superconductivity
	melting points		varistors		theoretical physics
	order-disorder transformations		SIS (semiconductors)		thin films
	Ostwald ripening		SIS (superconductors)		transport properties
	phase diagrams		solid state lasers		and the second second
	precipitation hardening supersaturation		aluminum gallium arsenide lasers	solid si	urfaces
	ternary systems		DBR lasers	GS	solid surfaces
	ternary systems		fiber lasers		. crystal surfaces
solid s	tate		gallium arsenide lasers	RT	liquid surfaces
RT	crystallization		quantum cascade lasers		metal surfaces
	energy gaps (solid state)		quantum well lasers ruby lasers		surface cracks
	melting points		YAG lasers		surface finishing
	metallic hydrogen		YLF lasers		surface properties
	solids	RT	amplifiers	۰	o surfaces
			bubble technique		
	tate devices		capacitors		uspensions
	Devices which utilize the electric, mag-		circuits	GS	mixtures
	nd photic properties of the solid materi-		∞ devices	DT	. solid suspensions
	, binary magnetic cores or transistors.		electric bridges	RT	colloidal propellants
GS	electronic equipment		laser cavities		composite materials
	. solid state devices		lasers		metallography particulates
	cryotrons crystal rectifiers		MBM junctions		phase diagrams
	metal-nitride-oxide-semiconductors		miniature electronic equipment	٥	suspensions
	multispectral linear arrays		oscillators	·	
	semiconductor devices		photomasks	solid w	astes
	avalanche diodes		rectifiers	GS	wastes
	cryosar		resistors	-	. solid wastes
	Barritt diodes		signal generators	RT	composting
	charge transfer devices		superconductors (materials) thin films		garbage
	bucket brigade devices		threshold voltage		human wastes
	charge coupled devices		transformers		industrial wastes
	charge injection devices		wafers		landfills
	germanium diodes				liquid wastes
	heterojunction devices		-		metabolic wastes
	high electron mobility transistors		tate lasers		pollution
	MODFETS	GS	electronic equipment		radioactive wastes
	junction diodes		. solid state devices		residues
	MIM diodes		solid state lasers		sewage
	step recovery diodes		aluminum gallium arsenide lasers		sludge
	light emitting diodes		DBR lasers fiber lasers		waste disposal waste energy utilization
	metal oxide semiconductors CMOS		gallium arsenide lasers		waste utilization
	ITO (semiconductors)		quantum cascade lasers		waste utilization
	SOS (semiconductors)		quantum cascade lasers	solidific	cation
	MIM (semiconductors)		ruby lasers	UF	rapid solidification
	MIS (semiconductors)		YAG lasers	GS	solidification
	MOM (semiconductors)		YLF lasers	40	. directional solidification (crystals)
	MSM (semiconductors)		stimulated emission devices		. melt spinning
					The state of the s

RT casting solutions ion currents castings coagulation solitary waves solutions crystallization DEF Nonlinear waves capable of propaga-GS mixtures freezing tion without spreading out, breaking up, or dis-. solutions gelation sipating their strength over distance. Used for . . aqueous solutions ingots Solitrons. . . gas mixtures melting points solitons . . . air mushy zones GS traveling waves . . . . alveolar air occlusion solitary waves . . . . compressed air Ostwald ripening RT backward waves . . . . expired air phase transformations cnoidal waves . . . . high temperature air rheocasting elastic waves liquid air ∞ setting electromagnetic radiation . . . detonable gas mixtures solidified gases plane waves . . photographic emulsions transition temperature pulses ... nuclear emulsions vitrification radio waves . . solid solutions rates (per time) RT azeotropes composition (property) solidified gases velocity solid argon dissolved gases GS gases solithanes emulsions . solidified gases RT elastomers eutectics . . solid cryogens ∞ polymers Henry law . . solid nitrogen synthetic rubbers Raoult law solids solubility . solidified gases solutes . . solid cryogens USE solitary waves ∞ solution . . solid nitrogen solvents cryogenic fluids titration cryogenic temperature Solomon computers GS data processing equipment cryogenics . computers freezing . . digital computers low temperature physics The process of swelling, getting, or ... Solomon computers melting points dissolving of a material by a solvent; for resins, metallic hydrogen the solvent can be plasticized. Solrad 10 satellite solid phases RT aqueous solutions solidification USE Explorer 44 satellite chemical reactions reaction kinetics solvents solids solstices solids DEF The two points of the ecliptic farthest GS from the celestial equator; two points on the . organic solids solvent extraction celestial sphere occupied by the sun at maxi-. solid solutions extraction GS . solidified gases mum declination. solvent extraction . . solid cryogens equinoxes ion extraction . . solid nitrogen seasons purification  $RT \, \infty \, bodies$ solar position ∞ separation ∞ fluids summer ∞ materials winter metallic hydrogen solvent refined coal phase transformations solubility DEF Low-sulfur distillate fuels from coal, semisolids UF immiscibility plus the byproducts of methane, light hydrocarsolid mechanics miscibility bons, and naphtha, all useful for making pipeline solid state RT clarity gas, ethylene, and high-octane unleaded gasothermochromatic materials concentration (composition) line. vapor phases diffusivity fuels dissolved gases . chemical fuels solids flow dissolving . . hydrocarbon fuels GS fluid flow gas-solid interfaces ... fossil fuels solids flow Henry law . . . . coal  $RT \infty flow$ hydrophobicity . . . . solvent refined coal flow measurement hygroscopicity resources flow theory incompatibility . Earth resources . . fossil fuels mass flow liquid phases multiphase flow liquid-gas mixtures . . . coal particle size distribution liquid-liquid interfaces . . . . solvent refined coal steady flow liquid-vapor interfaces rocks miscibility gap two phase flow . sedimentary rocks uniform flow mixtures . . carbonaceous rocks phase diagrams unsteady flow . . . coal phase separation (materials) ... solvent refined coal precipitation (chemistry) solid-solid interfaces benzene solutions bitumens GS interfaces supercritical fluids solid-solid interfaces carbonaceous materials thermodynamic properties coal liquefaction antiphase boundaries thixotropy coal utilization gas-solid interfaces turbidity fractionation liquid-solid interfaces surface properties viscosity fuel oils gasoline hydrocarbon fuel production solutes solidus dissolved organic matter RT binary systems (materials) RT product development dissolving liquid phases solutions liquidus solid phases solvent retention ∞ solution

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

LISTED BELOW)

problem solving

dissolving

SN

RT

DEF The occurrence of solvent residues in

chemical or material end products or intermedi-

dissolvina

solvents

ates RT

solions

RT

circuits

diodes integrators

solvents sounding rockets . . soot DEF The liquid part of an aerosol formulaproducts tion used to dissolve solid or other liquid parts. sonic anemometers . reaction products Used for thinners. GS measuring instruments . . combustion products thinners . anemometers . . soot GS solvents . sonic anemometers air pollution . tetrahydrofuran RT acoustics carbon . turpentine flowmeters fire damage additives hot-film anemometers Glory Mission satellite velocity measurement coatings diluents smoke abatement sonic booms dissolving Noises created by shock waves that extraction sorbates emanate from aircraft or other objects traveling furans Gas taken up by sorbents. DEF at or above sonic velocity. paint removal sorbents GS elastic waves solutions sorption solvation . shock waves . . sonic booms solvent retention sorbents . sound waves solvolysis The materials which take up gas by DFF .. noise (sound) toluene sorption. ... aircraft noise triacetin ĠS sorbents ... sonic booms trichloroethylene . absorbents acoustic velocity adsorbents aerodynamic noise sorbates solvolysis  $\infty\,boom$ sorption reclamation GS caustic lines . materials recovery jet aircraft noise Soret coefficient . solvolysis supersonic flight GS coefficients recycling transonic flight diffusion coefficient solvents . . Soret coefficient sonic fatigue transport properties Somalia USE acoustic fatigue . diffusion coefficient nations GS . Soret coefficient Somalia sonic flow liquid flow RT Africa USF transonic flow thermal diffusion sonic nozzles Sommerfeld approximation sorahum RT acoustic nozzles analysis (mathematics) Any of a number of related cereal conical nozzles . numerical analysis ∞ nozzles grasses with sweet juicy stalks cultivated as . . approximation farm crops for grain, fodder, syrup, etc. supersonic nozzles . . Sommerfeld approximation transonic flow GS farm crops antenna radiation patterns . grains (food) transonic nozzles directional antennas sorghum electromagnetic fields plants (botany) sonic soldering radio transmission USE ultrasonic soldering . grasses sorghum Sommerfeld waves sonic speed RT agriculture electromagnetic radiation USE acoustic velocity crop identification Sommerfeld waves ∞ crops surface waves sonic waveguides Earth resources Sommerfeld waves USE acoustic delay lines dielectric properties sorption

DEF The taking up of gas by absorption, electric conductors sonobuoys GS radio equipment adsorption, chemisorption, or any combination of these processes. Used for cryosorption. . radio transmitters sonar . . sonobuoys cryosorption A method or system, analogous to UF sonar radar used under water, in which high frequency GS sorption sonobuoys sound waves are emitted so as to be reflected . adsorption transmitters back from objects, and used to detect the ob-. chemisorption . radio transmitters jects of interest. Called asdic by the British.  $RT \, \infty \, absorption$ . sonobuoys (From SOund, NAvigation, and Ranging.) bioavailability antisubmarine warfare GS sonar chromatography hydrophones sonobuoys concentrating underwater acoustics distance measuring equipment extraction underwater communication echo sounding gas chromatography echo suppressors hydrophobicity sonochemistry hydrophones liquid chromatography (added June 1998) LOFAR material absorption USE ultrasonic processing navigation aids permeating sound localization separation sonograms sound ranging sorbates recording instruments ultrasonic wave transducers sorbents sound waves whistler recorders underwater acoustics surface properties underwater communication whistlers sortie can USE sortie systems sonoholography meteorological probes USE acoustical holography GS measuring instruments sortie lab USE sortie systems . sondes sonoluminescence . . dropsondes GS emission ... Judi-Dart rocket sortie systems . light emission . . radiosondes ... luminescence UF sortie can ...ionosondes sortie lab

. . . sonoluminescence

carbonaceous materials

soot

GS

. soot particles

. particulates

GS

RT

payloads

. sortie systems

space laboratories Space Shuttle payloads

space shuttles

space stations

. . . rawinsondes

. ozonesondes

sounding

Apache rocket vehicle

Cajun rocket vehicle

Spacelab payloads underwater acoustics . wave propagation . . acoustic propagation sortina sound frequencies .. sound propagation USE classifying USE acoustic frequencies RT acoustics attenuation sorting algorithms sound generators ∞ conduction (added November 1994) Transducers which convert electrical, diffusion DEF An algorithm that finds the most signifimechanical or other forms of energy into sound. noise generators cant element in a set which is then compared to Used for acoustic generators. noise propagation each element in succession to achieve an effiacoustic generators shock wave propagation cient sorting process.

GS mathematical logic acoustic nozzles audio frequencies sound ranging . algorithms
. . sorting algorithms auditory stimuli rangefinding GS bells sound ranging  $RT \, \infty \, classifying$ continuous noise detection computer techniques generators distance measuring equipment heuristic methods horns echo sounding hypercube multiprocessors loudspeakers position (location) iterative solution noise generators sonar parallel processing (computers) radiation sources sound fixing and ranging Poisson density functions signal generators target acquisition selection ∞ signals tracking (position) sequential analysis sirens warning systems sound transducers SOS (semiconductors) UF sound detectors silicon-on-sapphire junctions silicon-on-sapphire semiconductors sound holography GS transducers USE acoustical holography . sound transducers silicon-on-sapphire transistors . . electroacoustic transducers GS electronic equipment sound intensity ... hydrophones . solid state devices DEF In a specified direction at a point, the . . . loudspeakers . . semiconductor devices average rate of sound energy transmitted in the . microphones . . . metal oxide semiconductors specified direction through a unit area normal to RT electroacoustics .... SOS (semiconductors) this direction at the point considered. ∞ radiators . . . transistors acoustic properties signal detection . . . . silicon transistors sound intensity signal detectors . . . . SOS (semiconductors) . zero sound underwater acoustics semiconductors (materials) rates (per time) underwater communication metal oxide semiconductors . flux density . SOS (semiconductors) . . sound intensity sound transmission ITO (semiconductors) . zero sound sound absorption SIS (semiconductors) auditory stimuli transmission SOI (semiconductors) bioacoustics . sound transmission effective perceived noise levels RT ∞ absorption SOT loudness acoustics USE solar optical telescope noise intensity attenuation noise measurement audio frequencies sound radiant flux density USF acoustics signal fading earphones signal fading rate elastic waves sound absorption sirens energy absorption USE sound transmission monaural signals sound localization multipath transmission sound amplification perception GS ∞ paths amplification sound localization propeller noise sound amplification auditory perception signal transmission acoustic attenuation bearing (direction) acoustic excitation sirens binaural hearing sound fixing and ranging acoustics detection telephony echo sounding sound barrier thermoclines  $\infty$  orientation USE acoustic velocity wave propagation position indicators range finders sound detecting and ranging sound velocity (added February 1993) UF acoustic detection sonar USE acoustic velocity space perception acoustic scattering tracking (position) RT sound waves atmospheric temperature (ELASTIC WAVES IN THE AUDIBLE RANGE)  $\infty \, instruments$ sound measurement USE acoustic measurement Mechanical disturbances advancing measuring instruments with infinite velocity through an elastic medium, meteorological instruments sound perception and consisting of longitudinal displacements of meteorology the medium, i.e., consisting of compressional and rarefactional displacements parallel to the USE auditory perception temperature measurement direction of advance of the disturbance; a longisound detectors sound pressure DEF At a point, the total instantaneous tudinal wave. Sound waves are small amplitude USE sound transducers pressure at that point in the presence of a sound adiabatic oscillations. Used for acoustic radiawave minus the static pressure at that point. tion and acoustic vibrations. sound fields Regions containing sound waves. pressure acoustic radiation DEF . radiation pressure acoustic vibrations acoustics RT field theory (physics) . sound pressure elastic waves acoustic measurement . sound waves microsonics propeller noise acoustic velocity . . electroacoustic waves . . ion acoustic waves explosions sound fixing and ranging flux density . . Lamb waves A method for acoustically tracking sub-. . noise (sound) loudness merged bodies or floats utilizing fixed hydro-. . . aircraft noise noise (sound) phones. Used for SFAR and SOFAR. shock waves . . . . blade slap noise . . . . jet aircraft noise UF SFAR static pressure . . . propeller noise SOFAR

sound propagation

GS transmission

. . . . sonic booms

... engine noise

RT

sound ranging

sound transmission

.... rocket engine noise . . . Black Brant 5 sounding rocket Venezuela ... flow noise Cajun rocket vehicle ... thermal noise Dornier paraglider rocket vehicle South Carolina . . . . aerodynamic noise . . EXOS sounding rocket GS nations . . . . . blade slap noise . . Jaguar rocket vehicle . United States . . . . propeller noise Judi-Dart rocket South Carolina . . . . . screech tones . . Kappa rocket vehicles Sand Hills Region (GA-NC-SC) RT acoustic coupling Kappa 8 rocket vehicle acoustic frequencies Kappa 9 rocket vehicle South Dakota acoustic measurement . . Lambda rocket vehicles GS nations acoustic properties . . Loki rocket vehicle . United States acoustic streaming Petrel sounding rocket South Dakota acoustical holography . . Phoenix sounding rocket Black Hills (SD-WY) Skua rocket vehicles acoustics Missouri River (US) aeolian tones Skylark rocket vehicle Venus fly trap rocket vehicle audio frequencies South Korea auditory perception . . Veronique rocket vehicles UF Republic of Korea ∞ blasts Vertikal rockets GS nations computational aeroacoustics . WASP sounding rocket South Korea acoustic sounding
Argo rocket vehicles deep scattering layers detonation waves Asia Korea diffusion ionosondes North Korea longitudinal waves Javelin rocket vehicle loudness meteorological instruments South Vietnam Mach cones meteorological satellites USE Vietnam magnetoelastic waves Nike-Javelin rocket vehicle payload control microsonics South West Africa noise pollution radiosondes USE Namibia noise prediction (aircraft) rocket sounding phonons sondes Southeast Asia plane waves Viking rocket vehicle GS regions polarized elastic waves Southeast Asia ∞ radiation sounds (topographic features) Asia reverberation sounds (topographic features) Vietnam shock waves Block Island Sound (RI) McMurdo sound sodar Southern California sonograms Prince William Sound (AK) surface acoustic wave devices Chesapeake Bay (US) GS regions Southern California thermoacoustic effects inlets (topography) ultrasonic radiation oceans California Mexico ∞ waves rivers water Nevada sounders Pacific Ocean USE sounding sound-sound interactions United States RT harmonics sounding ∞ interactions DEF Any penetration of the natural environ-ment for scientific observation usually by sound-ing rockets or balloons. Used for sounders. intermodulation wave dispersion sounders . Ross ice shelf source programs GS sounding RT ∞ hemispheres Northern Hemisphere GS computer programs . acoustic sounding source programs . atmospheric sounding RT open source licensing (computers) Southern Oscillation . balloon sounding Southern sky . echo sounding sources . ionospheric sounding (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN Southern Oscillation . microwave sounding oscillations GS . rocket sounding . Southern Oscillation causes satellite sounding anomalies derivation bathymeters atmospheric circulation electron sources depth measurement atmospheric pressure extragalactic radio sources ∞ measurement climate ion sources meteorological balloons el Nino nonpoint sources meteorological flight Madden-Julian Oscillation radiation sources ROBIN balloons periodic variations radio sources (astronomy) sondes pressure oscillations sinks quasi-biennial oscillation sounding rockets Southern Hemisphere Rockets designed primarily for routine South Africa USE Republic of South Africa upper air observation (as opposed to research) Southern sky in the lower 250,000 feet of the atmosphere, DEF That portion of the celestial sphere between the celestial equator and the celestial especially that portion inaccessible to balloons, South America i.e., above 100,000. Used for meteorological continents GS south pole (and generally visible from areas in the Earth's southern hemisphere). rockets and rocket sondes South America UF meteorological rockets Andes Mountains (South America) astronomical catalogs Argentina RT rocket sondes astronomical observatories rocket vehicles Bolivia astronomical photography . sounding rockets Brazil astronomical spectroscopy . . Aerobee rocket vehicle Central America astronomy northern sky . . Antares rocket vehicle Chile . . Apache rocket vehicle Colombia sky surveys (astronomy) . . Arcas rocket vehicles Ecuador Southern Hemisphere Aries sounding rocket French Guiana . . Astrobee rocket vehicles Guvana . Astrobee 1500 rocket vehicle Magdalena-Cauca Valley (Colombia) Southern Yemen . . Black Brant sounding rockets Paraguay UF Aden

Peru

Surinam

Uruquay

Trinidad and Tobago

... Black Brant 1 sounding rocket ... Black Brant 2 sounding rocket ... Black Brant 3 sounding rocket

... Black Brant 4 sounding rocket

GS

nations

regions

. Southern Yemen

. Southern Yemen

RT	Asia	. Mir space station	GS	radar
		. Salyut space station		. space based radar
soverei		. Soyuz spacecraft		Shuttle Imaging Radar
RT	international cooperation	. Sputnik satellites	RT	airborne radar
	international law	Sputnik 1 satellite		antenna arrays
	politics	Sputnik 2 satellite		radiation effects
	voting	Sputnik 3 satellite		radiation shielding
Soviet	satellites	Sputnik 4 satellite Sputnik 5 satellite	space l	hases
GS	artificial satellites	. Venera satellites	GS	
	Soviet satellites	Venera 2 satellite		. lunar bases
	Cosmos 782 satellite	Venera 3 satellite		. planetary bases
	Cosmos 936 satellite	Venera 4 satellite		. space colonies
	Cosmos satellites	Venera 5 satellite		Mars bases
	Cosmos 2 satellite Cosmos 3 satellite	Venera 6 satellite	RT «	∞ bases
	Cosmos 5 satellite	Venera 7 satellite		Mir space station
	Cosmos 6 satellite	Venera 8 satellite Venera 9 satellite		Salyut space station space stations
	Cosmos 14 satellite	Venera 10 satellite		stations
	Cosmos 44 satellite	Venera 11 satellite		
	Cosmos 54 satellite	Venera 12 satellite	space b	biology
	Cosmos 71 satellite	. Zond space probes	USE	exobiology
	Cosmos 110 satellite	Zond 1 space probe	,	
	Cosmos 137 satellite Cosmos 144 satellite	Zond 2 space probe	space b	
	Cosmos 149 satellite	Zond 3 space probe	USE	ferry spacecraft
	Cosmos 166 satellite	Zond 4 space probe	space	capsules
	Cosmos 186 satellite	Zond 5 space probe Zond 6 space probe	DEF	
	Cosmos 188 satellite	Zond 7 space probe		nts in space. Used for capsules (space
	Cosmos 206 satellite	Zond 8 space probe	craft).	
	Cosmos 213 satellite	. Phobos spacecraft	UF	capsules (spacecraft)
	Cosmos 224 satellite	RT Russian Space Program	GS	space capsules
	Cosmos 225 satellite	∞ spacecraft		. Discoverer recovery capsules
	Cosmos 381 satellite			. escape capsules
	Cosmos 954 satellite Cosmos 1129 satellite	Soviet Union		. Mercury spacecraft Aurora 7
	Intercosmos satellites	USE U.S.S.R.		Faith 7
	Granat satellite	soybeans		Friendship 7
	Molniya satellites	GS farm crops		SIGMA 7
	Prognoz satellites	. leguminous plants	RT	artificial satellites
	Proton satellites	soybeans		biosatellites
	Proton 1 satellite	plants (botany)		cabin atmospheres
	Proton 2 satellite	. leguminous plants	c	∞ capsules
	Proton 3 satellite	soybeans		cockpits
	Proton 4 satellite	RT ∞ food		Gemini spacecraft
	Raduga satellite Sputnik satellites	Soyuz spacecraft		interplanetary spacecraft landing modules
	Sputnik 1 satellite	GS manned spacecraft		lunar spacecraft
	Sputnik 2 satellite	. Soyuz spacecraft		manned spacecraft
	Sputnik 3 satellite	Soviet spacecraft		Mercury flights
	Sputnik 4 satellite	. Soyuz spacecraft		recoverable spacecraft
	Sputnik 5 satellite	RT Apollo Soyuz test project		reentry vehicles
	Venera satellites	Assured Crew Return Vehicle		rendezvous spacecraft
	Venera 2 satellite	Kvant modules		soft landing spacecraft
	Venera 3 satellite Venera 4 satellite	Salyut space station U.S.S.R. space program	c	∞ spacecraft
	Venera 4 satellite	O.O.O.H. Space program		spacecraft cabins
	Venera 6 satellite	∞ space		spacecraft modules unmanned spacecraft
	Venera 7 satellite	SN (USE OF A MORE SPECIFIC TERM IS		voskhod manned spacecraft
	Venera 8 satellite	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		Vostok spacecraft
	Venera 9 satellite	RT algebra		•
	Venera 10 satellite	analysis (mathematics)	space (	
	Venera 11 satellite	Cartan space	DEF	
	Venera 12 satellite	cislunar space		m of electrons or ions in a vacuum or
RT	Russian Space Program	deep space		of low gas pressure when the charge is
Soviet	spacecraft	fractals		nt to produce local changes in the poten ribution. The net electric charge within a
	Soviet spacecraft	function space	given v	
	. Buran space shuttle	hyperspaces set theory	GS	electric charge
	. Lunik lunar probes	spatial dependencies		. space charge
	Lunik 2 lunar probe	opana asponasnos	RT	bunching
	Lunik 3 lunar probe	space adaptation syndrome		Child-Langmuir law
	Lunik 9 lunar probe	RT aerospace medicine		electric discharges
	Lunik 10 lunar probe	bioastronautics		electron clouds
	Lunik 11 lunar probe Lunik 12 lunar probe	biological effects		Landau damping
	Lunik 13 lunar probe	long duration space flight manned space flight		magnetohydrodynamics nonohmic effect
	Lunik 14 lunar probe	motion sickness		orbitrons
	Lunik 16 lunar probe	physiological effects		perveance
	Lunik 17 lunar probe	psychological effects		plasmas (physics)
	Lunik 19 lunar probe	space flight stress		static electricity
	Lunik 20 lunar probe	space psychology		
	Lunik 22 lunar probe	weightlessness		colonies
	. Mars 1 spacecraft	O An	GS	communities
	. Mars 2 spacecraft	Space Arrow satellite		. space colonies
	. Mars 3 spacecraft . Mars 4 Spacecraft	USE Cosmos 149 satellite		space bases
	. Mars 4 Spacecraft	space based radar	RT	. <b>space colonies</b> lunar bases
	. Mars 6 spacecraft	DEF Radar systems installed on large	111	lunar shelters
	. Mars 7 spacecraft	space structures.		Mars bases
	•	·		

Mars exploration space habitats space stations terraforming

### space commercialization

DEF For profit activities in space or prefatory to space activity.

commercialization GS

# space commercialization

# aerospace industry

Ariane 4 launch vehicle Ariane 5 launch vehicle

commerce lab

commercial spacecraft communication satellites

data products

direct broadcast satellites Energiya launch vehicle insurance (contracts)

lunar mining

∞ microgravity applications
Proton launch vehicle space industrialization space manufacturing space processing space tourism spacecraft launching

technology transfer

# space communication

The act of, or methods for, conveying information to, from, or through outer space.

telecommunication

# . space communication

- . . extraterrestrial communication
- . . interplanetary communication
- . . lunar communication
- . . . circumlunar communication . . spacecraft communication
- . . . reentry communication
- . . satellite communication

communication satellites

Defense Communications Satellite System

extraterrestrial intelligence

free-space optical communication

furlable antennas

interstellar communication

lasers

line of sight communication

manned space flight

optical communication

pulse communication radio communication

radio telemetry

television systems

wireless communication

# space cooling (buildings)

DEF The cooling of buildings with a solar energy system which incorporates water chillers controlled by thermostats and other devices to provide a comfortable living environment.

GS cooling

# space cooling (buildings)

cooling systems energy technology heat exchangers heat pumps liquid cooling residential energy solar collectors solar cooling solar energy conversion temperature control

# space debris

debris GS

# . space debris

asteroid belts RT asteroids Chiron cosmic dust dust meteoroids micrometeoroids

> spacecraft breakup

near Earth objects

spacecraft design . Toro asteroid Vesta asteroid

# space density

GS density (mass/volume)

space density

density (number/volume)

. space density

atmospheric density

electron density (concentration) ion density (concentration)

particle density (concentration)

plasma density

plasma interaction experiment

proton density (concentration)

# space detection and tracking system

SPADATS (tracking system) GS

networks

. tracking networks

. . space detection and tracking system

tracking (position)

space detection and tracking system

minitrack system missile tracking optical tracking

photographic tracking polystation doppler tracking system spacecraft tracking

STDN (network)

∞ systems tracking stations

space diversity

USE reception diversity

# space electric rocket tests

SERT (rocket tests)

engine tests GS

. space electric rocket tests electric rocket engines flight tests RT ground tests

SERT 1 spacecraft SERT 2 spacecraft

∞ tests

space elevators
(added March 2005)
DEF Elevators designed to provide access to space from ground or low altitude.
GS elevators (lifts)

space elevators

space transportation

space environment

USE aerospace environments

### space environment simulation

simulation

- . environment simulation
- ... space environment simulation

. . . weightlessness simulation

. neutral buoyancy simulation

altitude simulation

atmospheric entry simulation clinorotation

clinostats flight simulation

flight simulators

High Vacuum Orbital Simulator

Langley complex coordinator

motion simulators solar simulation thermal simulation vacuum chambers virtual reality

### space environmental lubrication USE spacecraft lubrication

# space erectable structures

GS space erectable structures

. inflatable spacecraft . . Beacon satellites . . . Beacon Explorer A ... Explorer 22 satellite

maypole antennas orbital assembly rigid structures self erecting devices space station modules space station structures space technology experiments spacecraft modules spacecraft structures ∞ structures Space Exper with Particle Accelerators USE **SEPAC** (payload)

RT expandable structures

folding structures

inflatable structures

large space structures

inflatable space structures

Large Deployable Reflector

# space exploration

planetary exploration HE

GS exploration

space exploration

. . lunar exploration

. Mars exploration

aerospace environments asteroid missions

astrodynamics astronautics bioastronautics Cassini mission Constellation program

extraterrestrial environments extraterrestrial resources French space program International Space Year interplanetary flight interplanetary spacecraft

interstellar spacecraft

Jupiter rings Magellan project (NASA) manned Mars missions manned space flight

Mars 69 project

Mars 71 project
Mars sample return missions
MESSENGER (spacecraft)
New Horizons mission planetary aerial vehicles planetary bases planetary composition

planetary geology sample return missions Solar Maximum Mission-A

TOPS (spacecraft) Viking 1 spacecraft Viking 2 spacecraft Viking lander 1

Viking lander 2 Viking lander spacecraft Viking Mars program Viking orbiter 1

Viking orbiter 2 Viking orbiter spacecraft

# space flight

GS space flight

interplanetary flight

interstellar travel long duration space flight

. lunar flight

. manned space flight . . Apollo flights

... Apollo 5 flight . . . Apollo 6 flight Apollo 7 flight

... Apollo 8 flight Apollo 9 flight Apollo 10 flight

Apollo 11 flight Apollo 12 flight

Apollo 13 flight . . . Apollo 14 flight

Apollo 15 flight . . . Apollo 16 flight

. Apollo 17 flight . . Gemini flights

Gemini 3 flight ... Gemini 4 flight

Gemini 5 flight	Viking lander 2	solar heating
Gemini 6 flight	Viking lander spacecraft	solar houses
Gemini 7 flight	Viking orbiter 1	temperature control
Gemini 8 flight	Viking orbiter 2	waste energy utilization
Gemini 9 flight	Viking orbiter spacecraft	
Gemini 10 flight		space industrialization
Gemini 11 flight	space flight feeding	GS space industrialization
Gemini 12 flight	RT consumables (spacecrew supplies)	. space manufacturing
manned reentry	dehydrated food	space processing
Mercury flights	diets	. space tourism
Mercury MA-1 flight	eating ∞ food	RT commercial spacecraft
Mercury MA-2 flight		economic development
Mercury MA-3 flight	food intake	energy conversion
Mercury MA-4 flight	food production (in space) life support systems	industries
Mercury MA-5 flight	nutrition	lunar mining
Mercury MA-6 flight	nutritional requirements	manufacturing
Mercury MA-7 flight	waste disposal	∞ processes
Mercury MA-8 flight	maste anoposan	product development products
Mercury MA-9 flight	space flight stress	research facilities
Mercury MR-1 flight	GS stress (biology)	space commercialization
Mercury MR-2 flight	. flight stress (biology)	opado dominordianzanon
Mercury MR-3 flight	space flight stress	Space Infrared Telescope Facility
Mercury MR-4 flight	RT boredom	UF SIRTF
Space Shuttle missions	∞ flight stress	Spitzer Space Telescope
Space Shuttle mission 31-A	gravitational physiology	GS artificial satellites
Space Shuttle mission 31-B	gravity perception	. scientific satellites
Space Shuttle mission 31-C	lower body negative pressure	astronomical satellites
Space Shuttle mission 31-D	manned space flight	Space Infrared Telescope
Space Shuttle mission 41-A Space Shuttle mission 41-B	space adaptation syndrome	Facility
Space Shuttle mission 41-B	space psychology	observatories
Space Shuttle mission 41-0	stress (physiology)	. astronomical observatories
Space Shuttle mission 41-B	stress (psychology)	astronomical satellites
Space Shuttle mission 51-A	weightlessness	Space Infrared Telescope
Space Shuttle mission 51-B	Chase Flight Treeking and Date Naturals	Facility
Space Shuttle mission 51-C	Space Flight Tracking and Data Network GS networks	telescopes
Space Shuttle mission 51-D	. tracking networks	. infrared telescopes
Space Shuttle mission 51-E	Space Flight Tracking and Data	Space Infrared Telescope
Space Shuttle mission 51-F	Network	Facility
Space Shuttle mission 51-G	RT ∞ data	. spaceborne telescopes
Space Shuttle mission 51-H	data acquisition	. Space Infrared Telescope
Space Shuttle mission 51-I	Global Tracking Network	Facility
Space Shuttle mission 51-J	ground stations	RT infrared astronomy
Space Shuttle mission 51-L	satellite tracking	spaceborne astronomy
Space Shuttle mission 61-A	stations	anna a labanatania
Space Shuttle mission 61-B	stations STDN (network)	space laboratories
Space Shuttle mission 61-B Space Shuttle mission 61-C		GS laboratories
Space Shuttle mission 61-B Space Shuttle mission 61-C Space Shuttle mission 61-E	STDN (network) tracking stations	GS laboratories space laboratories
Space Shuttle mission 61-B Space Shuttle mission 61-C Space Shuttle mission 61-E . return to Earth space flight	STDN (network) tracking stations space flight training	GS laboratories . <b>space laboratories</b> . Advanced Technology Laborato
Space Shuttle mission 61-B Space Shuttle mission 61-C Space Shuttle mission 61-E . return to Earth space flight RT aerospace environments	STDN (network) tracking stations  space flight training GS education	GS laboratories . space laboratories . Advanced Technology Laborato . Atmospheric Cloud Physics La
Space Shuttle mission 61-B Space Shuttle mission 61-C Space Shuttle mission 61-E . return to Earth space flight RT aerospace environments Apollo Soyuz test project	STDN (network) tracking stations  space flight training GS education . flight training	GS laboratories . space laboratories . Advanced Technology Laborate . Atmospheric Cloud Physics La (Spacelab)
Space Shuttle mission 61-B Space Shuttle mission 61-C Space Shuttle mission 61-E . return to Earth space flight aerospace environments Apollo Soyuz test project ascent propulsion systems	STDN (network) tracking stations  space flight training GS education . flight training space flight training	GS laboratories  . space laboratories  . Advanced Technology Laborate  . Atmospheric Cloud Physics La  (Spacelab)  . Earth Viewing Applications
Space Shuttle mission 61-B Space Shuttle mission 61-C Space Shuttle mission 61-E . return to Earth space flight aerospace environments Apollo Soyuz test project ascent propulsion systems astrodynamics	STDN (network) tracking stations  space flight training GS education . flight training space flight training astronaut training	GS laboratories . space laboratories . Advanced Technology Laborate . Atmospheric Cloud Physics La (Spacelab) . Earth Viewing Applications Laboratory
Space Shuttle mission 61-B Space Shuttle mission 61-C Space Shuttle mission 61-E . return to Earth space flight RT aerospace environments Apollo Soyuz test project ascent propulsion systems astrodynamics ∞ astronautics	STDN (network) tracking stations  space flight training GS education . flight training space flight training astronaut training RT pilot training	GS laboratories . space laboratories . Advanced Technology Laboratories . Atmospheric Cloud Physics La (Spacelab) . Earth Viewing Applications Laboratory . Long Duration Exposure Facilit
Space Shuttle mission 61-B Space Shuttle mission 61-C Space Shuttle mission 61-E . return to Earth space flight RT aerospace environments Apollo Soyuz test project ascent propulsion systems astrodynamics ∞ astronautics atmospheric entry	STDN (network) tracking stations  space flight training GS education . flight training space flight training astronaut training pilot training spacecraft cabin simulators	GS laboratories . space laboratories . Advanced Technology Laborate . Atmospheric Cloud Physics La (Spacelab) . Earth Viewing Applications Laboratory . Long Duration Exposure Facilit . manned orbital laboratories
Space Shuttle mission 61-B Space Shuttle mission 61-C Space Shuttle mission 61-E . return to Earth space flight RT aerospace environments Apollo Soyuz test project ascent propulsion systems astrodynamics ∞ astronautics atmospheric entry auxiliary propulsion	STDN (network) tracking stations  space flight training GS education . flight training space flight training astronaut training RT pilot training	GS laboratories . space laboratories . Advanced Technology Laboratories . Atmospheric Cloud Physics La (Spacelab) . Earth Viewing Applications Laboratory . Long Duration Exposure Facilit
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Space Shuttle mission 61-B Space Shuttle mission 61-C Space Shuttle mission 61-C Space Shuttle mission 61-E . return to Earth space flight  RT aerospace environments Apollo Soyuz test project ascent propulsion systems astrodynamics  astronautics atmospheric entry auxiliary propulsion bioastronautics celestial bodies expeditions exploration extravehicular activity  flight flight mechanics flight optimization flight simulation flyby missions Grand Tours Mariner Jupiter-Saturn flyby Mariner Jupiter-Uranus flyby meteorological flight  missions orbits Physics and Chemistry Experiment in Space pointing control systems propulsion reentry rocket flight  rockets solar sails Space Transportation System flights spacecraft maneuvers spacecraft propulsion	STDN (network) tracking stations  space flight training GS education . flight training space flight training astronaut training pilot training spacecraft cabin simulators training simulators  space gliders USE lifting reentry vehicles  space glossaries RT bibliographies dictionaries documentation indexes (documentation) information retrieval thesauri  space habitats RT aerospace environments closed ecological systems life support systems Mars bases space colonies space stations spacecrews terraforming  space heating (buildings) DEF Heating of living areas for the comfort of occupants (human and/ or animal) by any means (electricity, fuels, solar radiation, etc.). GS heating . space heating (buildings)	GS laboratories . space laboratories . Advanced Technology Laborate . Atmospheric Cloud Physics La (Spacelab) . Earth Viewing Applications Laboratory . Long Duration Exposure Facilit . manned orbital laboratories . Columbus module . Destiny Laboratory Module . Skylab Japanese Experiment Module . Skylab 1 . Skylab 2 . Skylab 2 . Skylab 3 . Skylab 4 . Spacelab RT ∞ aerospace sciences artificial satellites geophysical satellites lunar laboratories Mir space station orbital workshops research facilities research vehicles SAIL project Salyut space station sortie systems Space Station Freedom space stations spaceborne experiments ∞ spaceborne experiments . Space law GS law (jurisprudence) . international law . space law . space law
Space Shuttle mission 61-B Space Shuttle mission 61-C Space Shuttle mission 61-C Space Shuttle mission 61-E . return to Earth space flight  RT aerospace environments Apollo Soyuz test project ascent propulsion systems astrodynamics  astrodynamics  astronautics atmospheric entry auxiliary propulsion bioastronautics celestial bodies expeditions exploration extravehicular activity  flight flight mechanics flight optimization flight simulation flyby missions Grand Tours Mariner Jupiter-Saturn flyby Mariner Jupiter-Uranus flyby meteorological flight  missions orbits Physics and Chemistry Experiment in Space pointing control systems propulsion reentry rocket flight  rockets solar sails Space Transportation System flights spacecraft guidance spacecraft mropulsion suborbital flight	STDN (network) tracking stations  space flight training GS education . flight training space flight training astronaut training pilot training spacecraft cabin simulators training simulators  space gliders USE lifting reentry vehicles  space glossaries RT bibliographies dictionaries documentation indexes (documentation) information retrieval thesauri  space habitats RT aerospace environments closed ecological systems life support systems Mars bases space colonies space stations space space stations space heating (buildings) DEF Heating of living areas for the comfort of occupants (human and/ or animal) by any means (electricity, fuels, solar radiation, etc.). GS heating . space heating (buildings) RT air conditioning	GS laboratories . space laboratories . Advanced Technology Laborator . Atmospheric Cloud Physics La (Spacelab) . Earth Viewing Applications Laboratory . Long Duration Exposure Facilit . manned orbital laboratories . Columbus module . Destiny Laboratory Module . Kibo Japanese Experiment Module . Skylab 1 . Skylab 2 . Skylab 2 . Skylab 3 . Skylab 2 . Skylab 3 . Skylab 4 . Spacelab  RT ∞ aerospace sciences artificial satellites geophysical satellites lunar laboratories Mir space station orbital workshops research facilities research racilities research vehicles SAIL project Salyut space station sortie systems Space Station Freedom space stations space stations space stations space craft  space law GS law (jurisprudence) . international law . space law RT air law
Space Shuttle mission 61-B Space Shuttle mission 61-C Space Shuttle mission 61-C Space Shuttle mission 61-E . return to Earth space flight RT aerospace environments Apollo Soyuz test project ascent propulsion systems astrodynamics  astronautics atmospheric entry auxiliary propulsion bioastronautics celestial bodies expeditions exploration extravehicular activity  flight flight mechanics flight optimization flight simulation flyby missions Grand Tours Mariner Jupiter-Uranus flyby Mariner Jupiter-Uranus flyby meteorological flight  missions orbits Physics and Chemistry Experiment in Space pointing control systems propulsion reentry rocket flight  rockets solar sails Space Transportation System flights spacecraft guidance spacecraft maneuvers spacecraft flight trajectories	STDN (network) tracking stations  space flight training GS education . flight training space flight training astronaut training pilot training spacecraft cabin simulators training simulators  space gliders USE lifting reentry vehicles  space glossaries RT bibliographies dictionaries documentation indexes (documentation) information retrieval thesauri  space habitats RT aerospace environments closed ecological systems life support systems Mars bases space colonies space stations space rews terraforming  space heating (buildings) DEF Heating of living areas for the comfort of occupants (human and/ or animal) by any means (electricity, fuels, solar radiation, etc.). GS heating space heating (buildings) RT air conditioning environmental engineering	GS laboratories . space laboratories . Advanced Technology Laborator . Atmospheric Cloud Physics La (Spacelab) . Earth Viewing Applications Laboratory . Long Duration Exposure Facilit . manned orbital laboratories . Columbus module Destiny Laboratory Module Kibo Japanese Experiment Module Skylab 1 Skylab 2 Skylab 3 Skylab 3 Skylab 4 Spacelab RT ∞ aerospace sciences artificial satellites geophysical satellites lunar laboratories Mir space station orbital workshops research facilities research vehicles SAIL project Salyut space station sortie systems Space Station Freedom space stations space stati
Space Shuttle mission 61-B Space Shuttle mission 61-C Space Shuttle mission 61-C Space Shuttle mission 61-E . return to Earth space flight  RT aerospace environments Apollo Soyuz test project ascent propulsion systems astrodynamics	STDN (network) tracking stations  space flight training GS education . flight training space flight training astronaut training PT pilot training spacecraft cabin simulators training simulators  space gliders USE lifting reentry vehicles  space glossaries RT bibliographies dictionaries documentation indexes (documentation) information retrieval thesauri  space habitats RT aerospace environments closed ecological systems life support systems Mars bases space colonies space stations space reating (buildings) DEF Heating of living areas for the comfort of occupants (human and/ or animal) by any means (electricity, fuels, solar radiation, etc.). GS heating . space heating (buildings) RT air conditioning environmental engineering heating equipment	GS laboratories . space laboratories . Advanced Technology Laborator Atmospheric Cloud Physics La (Spacelab) . Earth Viewing Applications Laboratory . Long Duration Exposure Facilit . manned orbital laboratories . Columbus module . Destiny Laboratory Module . Kibo Japanese Experiment Module . Skylab 1 . Skylab 2 . Skylab 3 . Skylab 3 . Skylab 4 . Spacelab RT ∞ aerospace sciences artificial satellites geophysical satellites lunar laboratories Mir space station orbital workshops research facilities research vehicles SAIL project Salyut space station sortie systems Space Station Freedom space stations space stations spaceborne experiments ∞ spacecraft  space law GS law (jurisprudence) . international law . space law RT air law direct broadcast satellites insurance (contracts)

sabotage

### space logistics

GS logistics

# space logistics

**Automated Transfer Vehicle** consumables (spacecraft) consumables (spacecrew supplies) extraterrestrial resources manned space flight spacecraft cabin simulators spacecrew transfer stowage (onboard equipment)

### space maintenance

GS maintenance

space maintenance

astronaut training ∞ astronautics extravehicular activity orbital workers payload transfer

remote manipulator system Space Station Mobile Servicing System

# space manufacturing

fabrication

. space manufacturing

manufacturing

. space manufacturing space industrialization

. space manufacturing

aerospace environments

assembling commercial spacecraft

construction

high vacuum industries levitation melting liquid bridges

low gravity manufacturing

 microgravity applications space commercialization space processing

spaceborne experiments technologies

vacuum effects weightlessness

# space mechanics

GS mechanics (physics)

. classical mechanics

. . space mechanics

... astrodynamics ... celestial mechanics

. . . orbital mechanics

. . . . Kepler laws

. . . . minimum variance orbit

determination

flight mechanics magnetohydrodynamics orbital space tests quadratures

space medicine

USE aerospace medicine

### space missions

# space missions

Cassini mission

. Cluster Mission

. flyby missions . . Giotto mission

. . Grand Tours

. . . Mariner Jupiter-Saturn flyby

. Mariner Jupiter-Uranus flyby

. . . Voyager 1977 mission

Comet Nucleus Tour

. . Comet Rendezvous Asteroid Flyby Mission

. . Deep Impact Mission

Mariner Venus-Mercury 1973

. . Mariner-Mercury 1973

. . Near Earth Asteroid Rendezvous Mission

. . New Horizons mission Stardust Mission

SOHO Mission

. Solar Maximum Mission

. . Solar Maximum Mission-A

asteroid missions

Starprobe mission

. Ulysses mission

... Comet Rendezvous Asteroid Flyby Mission

. . Near Earth Asteroid Rendezvous Mission

. Rosetta mission

. Deep Space 1 Mission

. Genesis mission

. Mars missions

. . 2001 Mars Odyssey

manned Mars missions

Mars sample return missions

. Mars Surveyor 2001 Mission

. sample return missions

. Mars sample return missions
. Stardust Mission

**GRACE** mission

Apollo Soyuz test project

Chinese space program Earth-Venus trajectories

European space programs

French space program Indian space program

Japanese space program Magellan project (NASA)

MESSENGER (spacecraft)

∞ missions

Skylab 1

Skylab 2

Skylab 3

Skylab 4

space programs Space Shuttle missions

STEREO (observatory)

TOPS (spacecraft)

### space navigation

GS navigation

space navigation

. interplanetary navigation

RT air navigation

astrodynamics

∞ astronautics

astronavigation autonomous navigation

celestial navigation

digital navigation Earth-Venus trajectories

formation flying

Global Positioning System

inertial navigation interplanetary flight

interplanetary trajectories

manned spacecraft orbit determination

orbital maneuvers

orbital mechanics

orbits

radar navigation radio navigation

reference stars satellite guidance

satellite navigation systems

spacecraft guidance

spacecraft position indicators standardized space guidance

space observations (from Earth)

DEF Surveillance of extraterrestrial phenomena from the Earth's surface.

GS observation

. space observations (from Earth)

RT asteroid detection astronomical interferometry

> detection observation scheduling

radio observation reconnaissance seeing (astronomy)

space surveillance (ground based)

# Space Operations Center (NASA)

DEF A proposed NASA space station to be assembled in space that is designed for conducting space based operations such as satel-lite servicing, orbit transfer vehicle launch and

recovery, and assembly of large space structures. Onboard capabilities could include space manufacturing and research experiments. When fully assembled it will be larger in size than the Space Shuttle.

artificial satellites

. space stations

Space Operations Center (NASA) manned spacecraft

. Space Operations Center (NASA) stations

space stations

. Space Operations Center (NASA)

large space structures orbital assembly orbital servicing

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

attitude (inclination) bearing (direction)

vertical perception visual perception

space perception

DEF The ability to estimate depth or distance between points in the field of vision. Used for depth perception, distance perception, form perception, and slant perception.

depth perception distance perception form perception slant perception GS perception

. sensory perception

. . visual perception

... space perception

. . . . autokinesis
RT binocular vision monocular vision peripheral vision

range finders sound localization visual fields

space photography

USE spaceborne photography

space plasma H/V interaction experiments

USE SPHINX

space plasmas

DEF Concentrations of free electrons and protons in the ionosphere, plasmasphere, and

beyond. ĞS

particles

. charged particles

. . energetic particles . . . plasmas (physics) . . . space plasmas

. . . . . solar wind

. . . . stellar winds

. corpuscular radiation

. . energetic particles ... plasmas (physics)

. . . . space plasmas

. solar wind . stellar winds

AMPTE (satellites) Cluster Mission CRRES (satellite)

dusty plasmas Earth magnetosphere

flux transfer events galactic winds geomagnetism **IMAGE** satellite

ionopause magnetic field reconnection

magnetohydrodynamic stability magnetohydrodynamics

OPEN Project plasma density plasma diagnostics plasma interactions plasma layers plasma physics plasma waves

# space platforms

plasma-electromagnetic interaction heat exchangers . . . . Viking 2 spacecraft SNAP . . . . Viking lander 2 SNAP 2 Polar/GGS spacecraft . . . . Viking orbiter 2 space weather SNAP 4 . Viking lander spacecraft SPHINX SNAP 8 . . . . Viking lander 1 wave-particle interactions SNAP 50 . . . . Viking lander 2 Wind/GGS spacecraft turbogenerators . . . Viking orbiter spacecraft . . . . Viking orbiter 1 space platforms Viking orbiter 2 space probes DEF Gimbal-mounted platforms equipped unmanned spacecraft . Viking orbiter 1975 with gyros and accelerometers for maintaining a Mars Climate Orbiter space probes desired orientation in inertial space independent . . Explorer 18 satellite Mars Express of spacecraft motion. Mars Global Surveyor . . Giotto mission space platforms Jupiter probes Mars Polar Lander Columbus space station . . . Galileo probe Mars Reconnaissance Orbiter . Eureca (ESA) Nozomi Mars Orbiter Galileo spacecraft Long Duration Exposure Facility lunar probes Phobos spacecraft . man tended free flyers Phoenix Mars Lander Lunik lunar probes space station polar platforms Zond 2 space probe Lunik 2 lunar probe synchronous platforms . . Pioneer space probes Lunik 3 lunar probe Earth Observing System (EOS) ... Pioneer 1 space probe Lunik 9 lunar probe intraorbit transfer vehicles Lunik 10 lunar probe Pioneer 2 space probe orbital servicing . Lunik 11 lunar probe Pioneer 3 space probe ∞ platforms Pioneer 4 space probe Lunik 12 lunar probe shape control Lunik 13 lunar probe Pioneer 5 space probe Space Station Freedom Pioneer 6 space probe Pioneer 7 space probe Lunik 14 lunar probe space stations Lunik 16 lunar probe Pioneer 8 space probe space power reactors Lunik 17 lunar probe Lunik 19 lunar probe auxiliary power sources Pioneer 9 space probe Pioneer 10 space probe . nuclear auxiliary power units Lunik 20 lunar probe Lunik 22 lunar probe . space power reactors Pioneer 11 space probe . . . fission electric cells Ranger lunar probes Pioneer Venus 2 entry probes .... SNAP 2 Ranger 1 lunar probe . Pioneer Venus 2 night probe SNAP 4 Ranger 2 lunar probe Pioneer Venus 2 sounder probe .... SNAP 8 Ranger 3 lunar probe . . solar probes .... SNAP 10A Ranger 4 lunar probe Helios 1 Ranger 5 lunar probe Helios 2 SNAP 50 Ranger 6 lunar probe Helios A . . space power unit reactors Ranger 7 lunar probe Helios B nuclear electric power generation . nuclear auxiliary power units Ranger 8 lunar probe Starprobe spacecraft space power reactors Ranger 9 lunar probe Sunblazer space probe . . . fission electric cells Ranger lunar landing vehicles . . Venus probes Surveyor lunar probes Magellan spacecraft (NASA) SNAP 2 SNAP 4 Surveyor 1 lunar probe Mariner 1 space probe SNAP 8 Surveyor 2 lunar probe Mariner 2 space probe SNAP 10A Surveyor 3 lunar probe Mariner 5 space probe Surveyor 4 lunar probe Mariner 10 space probe ... SNAP 50 Surveyor 5 lunar probe Pioneer Venus 2 spacecraft . . . space power unit reactors Surveyor 6 lunar probe . Pioneer Venus 2 entry probes . nuclear power reactors Surveyor 7 lunar probe . . . . Pioneer Venus 2 night probe space power reactors fission electric cells . SNAP 2 . Mariner space probes . . . . Pioneer Venus 2 sounder Mariner 1 space probe probe Mariner 2 space probe Pioneer Venus 2 transporter bus SNAP 4 Mariner 3 space probe . . . Venera satellites SNAP 8 Mariner 4 space probe Mariner 5 space probe Venera 2 satellite SNAP 10A . . . Venera 3 satellite SNAP 50 Mariner 6 space probe Mariner 7 space probe . . . Venera 4 satellite . . . Venera 5 satellite ... space power unit reactors nuclear reactors Mariner 8 space probe . Venera 6 satellite . Venera 7 satellite . nuclear power reactors Mariner 9 space probe space power reactors ... fission electric cells Mariner 10 space probe Venera 8 satellite SNAP 2 Mariner 11 space probe Venera 9 satellite SNAP 4 Mariner R 2 space probe Venera 10 satellite SNAP 8 Mariner spacecraft Venera 11 satellite SNAP 10A Mariner C spacecraft Venera 12 satellite Zond 1 space probe SNAP 50 Mariner Venus 67 spacecraft . . Mars probes Zond 3 space probe . . space power unit reactors heat exchangers . . . Advanced Reconn Electric Zond 4 space probe Zond 5 space probe Spacecraft space station power supplies Mariner 3 space probe Zond 6 space probe turbogenerators Mariner 4 space probe Zond 7 space probe space power unit reactors Mariner 6 space probe Zond 8 space probe SPUR (reactors) Mariner 7 space probe Huygens probe auxiliary power sources Mariner 8 space probe MESSENGER (spacecraft) . nuclear auxiliary power units Mariner 9 space probe Microwave Anisotropy Probe . . space power reactors Mars 1 spacecraft Voyager 1 spacecraft ... space power unit reactors Mars 2 spacecraft Voyager 2 spacecraft nuclear electric power generation Mars 3 spacecraft Atlas Able 5 launch vehicle . nuclear auxiliary power units Mars 4 Spacecraft Cassini mission . . space power reactors Mars 5 spacecraft Deep Impact Mission . . . space power unit reactors Mars 6 spacecraft interplanetary spacecraft . nuclear power reactors Mars 7 spacecraft magnetic probes Mars Observer maneuverable spacecraft . . space power reactors space power unit reactors Mars Pathfinder Mariner program nuclear reactors Viking 1975 entry vehicle meteorological satellites Viking spacecraft
Viking 1 spacecraft
Viking lander 1 Pioneer project
Pioneer Venus 1 spacecraft . nuclear power reactors space power reactors Pioneer Venus spacecraft space power unit reactors fission electric cells . . . . . Viking orbiter 1 ∞ probes

radio occultation satellite television Voyager 1977 mission Voyager project space processing DEF Synthesis

DEF Synthesis, processing, forming, and fabrication of compounds or materials in space or in a simulated space environment; normally involving techniques that exploit low-gravity or high-vacuum conditions.

GS space industrialization

RT

space processing

acoustic levitation bioprocessing commercial spacecraft containerless melts crystal growth diamond films electric furnaces float zones levitation melting

liquid bridges low gravity manufacturing Marangoni convection metalorganic chemical vapor

deposition microgravity

microgravity applications
 miscibility gap
 orbital workshops

protein crystal growth

single crystals space commercialization space manufacturing space mandacturing spaceborne experiments thermocapillary migration ultrapure metals

Space Processing Applications Rocket

Sounding rocket used for space processing experiments by NASA. Used for SPAR (rocket).

UF SPAR (rocket) launch vehicles RT metal foams payloads rocket vehicles weightlessness

# space programs

GS programs

space programs

. . Argentine space program

Australian space program
Brazilian space program

Canadian space program

. Alouette project

Chinese space program European space programs . Austrian 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

Luxembourg space program

Netherlands space program

Norwegian space program

. . . Portuguese space program Spanish space program

Swedish space program

Swiss space program

Turkish space program

UK space program

geographic applications program Indian space program

Indonesian space program

Israeli space program

Japanese space program

Mexican space program

NASA space programs

. Apollo applications program

. . . Apollo project

. . . Bioastronautical Orbital Space System

Centaur project

... Earth & Ocean Physics Applications Program

... Earth Resources Program .... Earth Resources Survey

Program

. . SEASAT program

... Echo project

. . . Galileo project Gemini project

Helios Project

Jupiter project

Magellan project (NASA)

Mariner program
. Mariner Venus-Mercury 1973

Mariner-Mercury 1973

Mars 69 project
Mars 71 project
Mercury project
National Launch Vehicle Program
NEW MOONS project

Nimbus project OPEN Project

Pioneer project Project SETI

Ranger project

Agena B Ranger Program

Constellation program

Mars Surveyor 98 Program

New Horizons mission

Rover project

SAIL project

Saturn project

Scout project

Skylab program

Starprobe mission

Surveyor project Synchronous Communications

Satellite Proj

Tektite project

TIROS project

Titan project

Vanguard project Viking Mars program

. . . Voyager project
. . New Zealand space program

Pakistan space program
 Russian Space Program

Saudi Arabian space program

. U.S.S.R. space program . Ukrainian space program Apollo Soyuz test project European Space Agency International Space Year

ISRO

manned space flight

NASA programs

research projects

Solar Maximum Mission space missions

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

space radiation

USE extraterrestrial radiation

stress (psychology)

space radiators

spacecraft radiators USE

space rations

consumables (spacecrew supplies) GS

space rations

rations

space rations

RT ∞ food

food production (in space)

provisioning

stowage (onboard equipment)

space rendezvous

spacecraft rendezvous

ĞS rendezvous

. space rendezvous

. . orbital rendezvous

Earth orbital rendezvous

. . lunar orbital rendezvous

Apollo Soyuz test project autonomous docking rendezvous trajectories

spacecraft docking transfer orbits

space sciences

USE aerospace sciences

space self maneuvering units USE self maneuvering units

Space Shuttle Ascent Stage

DEF Shuttle take-off configuration comprising the orbiter, solid rocket boosters, and external tank.

spacecraft configurations GS

. Space Shuttle Ascent Stage
Advanced Solid Rocket Motor (STS)

ascent propulsion systems

external tanks

Space Shuttle Boosters

Space Shuttle orbiters Space Shuttle upper stages

space shuttles stage separation

**Space Shuttle Boosters** 

Shuttle Boosters

Solid Rocket Boosters (Space

Shuttle)

Space Shuttle Solid Rocket Motors

SRB (Solid Rocket Boosters)

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

RT ∞ boosters

manned spacecraft O ring seals

reusable spacecraft Space Shuttle Ascent Stage

(STS)

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.

GS engines

. rocket engines

. . liquid propellant rocket engines

Space Shuttle Main Engine

RT propulsion

space transportation system Space Transportation System flights

Space Shuttle mission 31-A space flight

. manned space flight . . Space Shuttle missions

Space Shuttle mission 31-A

Columbia (Orbiter)

Space Shuttle mission 31-B

space flight

. manned space flight

. . Space Shuttle missions

... Space Shuttle mission 31-B

RT	Challenger (Orbiter)		. manned space flight Space Shuttle missions		Space Shuttle mission 51-H Space Shuttle mission 51-I
	Shuttle mission 31-C		Space Shuttle mission 51-F		Space Shuttle mission 51-J
UF	Space Shuttle Orbital Flight 7	RT	Challenger (Orbiter)		Space Shuttle mission 51-L
GS	space flight . manned space flight	Space	Shuttle mission 51-G		Space Shuttle mission 61-A Space Shuttle mission 61-B
	Space Shuttle missions		space flight		Space Shuttle mission 61-C
	Space Shuttle mission 31-C		. manned space flight		Space Shuttle mission 61-E
RT	Challenger (Orbiter)		Space Shuttle missions Space Shuttle mission 51-G	RT	Get Away Specials (STS)  ∞ missions
Space	Shuttle mission 31-D	RT			space missions
UF	Space Shuttle Orbital Flight 8		Saudi Arabian space program		space transportation system
GS	space flight . manned space flight	Snoor	Shuttle mission 51-H	Cnaca	Shuttle Orbital Flight 7
	Space Shuttle missions		space flight		Space Shuttle mission 31-C
	Space Shuttle mission 31-D		. manned space flight		·
RT	Challenger (Orbiter)		Space Shuttle missions		Shuttle Orbital Flight 8 Space Shuttle mission 31-D
Space	Shuttle mission 41-A	RT	Space Shuttle mission 51-H Atlantis (orbiter)	OGL	Space Shuttle Illission 31-2
UF	Space Shuttle Orbital Flight 9		, ,		Shuttle Orbital Flight 9
GS	space flight . manned space flight	•	Shuttle mission 51-l	USE	Space Shuttle mission 41-A
	Space Shuttle missions	GS	space flight . manned space flight	Space	Shuttle Orbital Flight Test 1
	Space Shuttle mission 41-A		Space Shuttle missions	USE	Space Transportation System 1
RT	Columbia (Orbiter)		Space Shuttle mission 51-l		flight
Space	Shuttle mission 41-B	RT	Discovery (Orbiter)		Shuttle Orbital Flight Test 2
GS	space flight	Space	Shuttle mission 51-J	USE	Space Transportation System 2
	. manned space flight	GS	space flight		flight
	Space Shuttle missions Space Shuttle mission 41-B		. manned space flight	Space	Shuttle Orbital Flight Test 3
RT	Challenger (Orbiter)		Space Shuttle missions Space Shuttle mission 51-J	USE	Space Transportation System 3
0	Charte mission 44 O	RT	Atlantis (orbiter)		flight
	Shuttle mission 41-C space flight	0	Objective mission 54 l	Space	Shuttle Orbital Flight Test 4
0.0	. manned space flight		Shuttle mission 51-L space flight	USE	Space Transportation System 4
	Space Shuttle missions	ao	. manned space flight		flight
RT	Space Shuttle mission 41-C Challenger (Orbiter)		Space Shuttle missions	Space	Shuttle Orbital Flight Tests
111	Challenger (Croiter)	RΤ	Space Shuttle mission 51-L Challenger (Orbiter)		Space Transportation System
	Shuttle mission 41-D	111	Official effect (Officer)		flights
GS	space flight . manned space flight		Shuttle mission 61-A	Space	Shuttle Orbital Flights
	Space Shuttle missions	GS	space flight . manned space flight		Space Transportation System
	Space Shuttle mission 41-D		Space Shuttle missions		flights
RT	Discovery (Orbiter)		Space Shuttle mission 61-A	Space	Shuttle Orbiter 099
Space	Shuttle mission 41-G	RT	Challenger (Orbiter) Columbia (Orbiter)	USE	
GS	space flight		Columbia (Orbiter)	Space	Shuttle Orbiter 101
	. manned space flight Space Shuttle missions		Shuttle mission 61-B		Enterprise (Orbiter)
	Space Shuttle mission 41-G	GS	space flight		,
RT	Challenger (Orbiter)		. manned space flight Space Shuttle missions		Shuttle Orbiter 102
Space	Shuttle mission 51-A		Space Shuttle mission 61-B	03E	Columbia (Orbiter)
	space flight	RT	Atlantis (orbiter)	,	Shuttle Orbiter 103
	. manned space flight	Snace	Shuttle mission 61-C	USE	Discovery (Orbiter)
	Space Shuttle missions Space Shuttle mission 51-A	GS		Space	Shuttle Orbiter 104
RT	Discovery (Orbiter)		. manned space flight	USE	
	,		Space Shuttle missions Space Shuttle mission 61-C	Cnaca	Shuttle Orbiter 105
Space GS	Shuttle mission 51-B space flight	RT			Shuttle Orbiter 105 Endeavour (orbiter)
ao	. manned space flight		, ,		,
	Space Shuttle missions		Shuttle mission 61-E	<b>Space</b> UF	Shuttle orbiters
RT	Space Shuttle mission 51-B	GS	space flight . manned space flight	GS	
п	Challenger (Orbiter)		Space Shuttle missions		. space shuttles
	Shuttle mission 51-C	DT	Space Shuttle mission 61-E		Space Shuttle orbiters
GS	space flight	RT	Columbia (Orbiter)		Atlantis (orbiter) Challenger (Orbiter)
	. manned space flight Space Shuttle missions	Space	Shuttle missions		Columbia (Orbiter)
	Space Shuttle mission 51-C	GS	space flight		Discovery (Orbiter)
RT	Discovery (Orbiter)		. manned space flight Space Shuttle missions		Endeavour (orbiter) Enterprise (Orbiter)
Space	Shuttle mission 51-D		Space Shuttle mission 31-A		reentry vehicles
GS	space flight		Space Shuttle mission 31-B		. recoverable spacecraft
	. manned space flight		Space Shuttle mission 31-C		reusable spacecraft
	Space Shuttle missions Space Shuttle mission 51-D		Space Shuttle mission 31-D Space Shuttle mission 41-A		space shuttles Space Shuttle orbiters
RT	Discovery (Orbiter)		Space Shuttle mission 41-B		Atlantis (orbiter)
0 1 1	,		Space Shuttle mission 41-C		Challenger (Orbiter)
Space GS	Shuttle mission 51-E space flight		Space Shuttle mission 41-D Space Shuttle mission 41-G		Columbia (Orbiter) Discovery (Orbiter)
as	. manned space flight		Space Shuttle mission 51-A		Endeavour (orbiter)
	Space Shuttle missions		Space Shuttle mission 51-B		Enterprise (Orbiter)
рт	Space Shuttle mission 51-E		Space Shuttle mission 51-C Space Shuttle mission 51-D	RT	
RT	Challenger (Orbiter)		Space Shuttle mission 51-D		manned space flight microwave scanning beam landing
	Shuttle mission 51-F		Space Shuttle mission 51-F		system
GS	space flight		Space Shuttle mission 51-G		payload integration plan

# space station polar platforms

Shuttle Derived Vehicles Space Shuttle Ascent Stage space transportation system spacecraft recovery terminal area energy management

# Space Shuttle payloads

payloads

# 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-1 payload
- .. OSTA-3 payload
- . . Physics and Chemistry Experiment in Space
- . . plasma interaction experiment
- . . X Ray Astrophysics Facility RT commerce lab

extravehicular activity

Feature Identification and Location Exper

Hubble Space Telescope Multi-Purpose Logistics Modules

orbital servicing payload assist module

payload integration

payload integration plan Shuttle Imaging Radar

sortie systems

space station payloads

space technology experiments

space transportation system spaceborne experiments

Starlab

Space Shuttle Solid Rocket Motors USE Space Shuttle Boosters

Space Shuttle upper stage A DEF A version of a spinning solid upper stage centered around an Atlas Centaur launch vehicle. Used for SSUS-A.

UF SSUS-A

GS Space Shuttle upper stages

Space Shuttle upper stage A

Atlas Centaur launch vehicle

# Space Shuttle upper stage D

DEF A version of a spinning solid upper stage centered around a Delta launch vehicle. Used for SSUS-D.

SSUS-D

Space Shuttle upper stages

Space Shuttle upper stage D

Delta launch vehicle

solid propellant rocket engines spin stabilization

# Space Shuttle upper stages

DEF A collective term for the various types of upper stages planned for the Space Shuttle.

Space Shuttle upper stages Space Shuttle upper stage A

- Space Shuttle upper stage D
- spinning solid upper stage
- Space Shuttle Ascent Stage

### space shuttles

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)

. . . . Challenger (Orbiter)

. . . . . Columbia (Orbiter)

. . . . Discovery (Orbiter) .... Endeavour (orbiter)

... Enterprise (Orbiter)

Advanced Launch System (STS)

**AEPS** 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

payload retrieval (STS)

SAIL project

Shuttle Derived Vehicles Shuttle Engineering Simulator

Shuttle pallet satellites

single stage to orbit vehicles

sortie systems

Space Shuttle Ascent Stage

space transportation system Space Transportation System flights

∞ spacecraft

spacecraft recovery Spacelab

# space simulators

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)

Freedom Space Station 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

. 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 station modules

robots

space maintenance space station modules

### (added November 1998) GS modules

- . space station modules
  . . Columbus module
- Cupola Module Destiny Laboratory Module
- Kibo Japanese Experiment 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

space station structures

orbital assembly

space erectable structures Space Station Mobile Servicing System

spacecraft docking modules spacecraft modules

space station payloads

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) artificial satellites

. space stations . . space station polar platforms

space platforms space station polar platforms stations

space stations

space station polar platforms

Columbus space station

909

# space station power supplies

Earth Observing System (EOS) polar orbits remote sensing Space Station Freedom space station payloads

# space station power supplies

GS 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

RT 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)

Space Station Mobile Servicing System

### space station structures

space station structures

. 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

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

. 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 AEPS

autonomous docking

bioastronautics ferry spacecraft inflatable structures

large space structures manned orbital laboratories

manned spacecraft military spacecraft orbital servicing

orbital space tests

orbital workshops

platforms

rendezvous spacecraft

Saturn 1 workshop Saturn 5 workshop

Saturn workshops

sortie systems

space bases

space colonies

space habitats space laboratories

space platforms

space station payloads

space station power supplies

space station propulsion

space station structures

spacecraft docking

spin stabilization

X-38 crew return vehicle

# space storage

RT cryogenic fluid storage cryogenic rocket propellants cryogenic tanks propellant storage storable propellants

∞ storage storage tanks

### space suits

DEF Pressure suits for wear in space or at very low ambient pressures within the atmosphere, designed to permit the wearer to leave the protection of a pressurized cabin.

GS clothing

. protective clothing

. . pressure suits

... space suits

.... extravehicular mobility units

. suits

. . pressure suits

... space suits

... extravehicular mobility units

RT safety devices

# ∞ space surveillance

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

space surveillance (ground based) space surveillance (spaceborne)

# space surveillance (ground based)

surveillance

. space surveillance (ground based)

RT air defense antimissile defense asteroid detection

minitrack system space observations (from Earth)

∞ space surveillance spacecraft tracking

# space surveillance (spaceborne)

GS surveillance

. space surveillance (spaceborne)

air defense

antimissile defense

high altitude nuclear detection

ice mapping ice reporting military spacecraft optical countermeasures reconnaissance satellite-borne photography satellite-to-satellite tracking ∞ space surveillance spacecraft tracking

space systems engineering

USE aerospace engineering

# space technology experiments

RT antenna design antennas large space structures space erectable structures Space Shuttle payloads spaceborne experiments

### space temperature

GS temperature

space temperature

cryogenic temperature electron energy ion temperature

# space tools

GS tools

space tools

RT low gravity manufacturing orbital workers telerobotics

### space tourism

(added April 1999)

space industrialization

space tourism tourism

. space tourism

space commercialization space transportation

# space transportation

The conveyance of payloads or personnel to, through, or from outer space.

transportation

# space transportation

space transportation system

... Advanced Launch System (STS)

. . . Saenger space transportation system

Delta Clipper

HOPE aerospace plane HOTOL launch vehicle Inertial Upper Stage Japanese space program orbit transfer vehicles

payload stations

payloads

single stage to orbit vehicles space elevators

space tourism terminal area energy management

# space transportation system

DEF A joint NASA-DOD advanced space transportation concept for the 1980s. The main element of the STS is the Space Shuttle. Another element is the orbit transfer vehicles-OTV. A third element called Spacelab is designed and manufactured by the European Space Agency, has no propulsive capability and is carried by the Space Shuttle. Used for STS.

transportation

. space transportation

system

... space transportation system

... Advanced Launch System (STS)

. . . Saenger space transportation system

Advanced Solid Rocket Motor (STS) annular suspension and pointing

approach and landing tests (STS) Atmospheric General Circulation

Experiment defense program

extravehicular mobility units

Hermes manned spaceplane ∞ tests Inertial Upper Stage extraterrestrial environments Long Duration Exposure Facility manned maneuvering units space tugs RT Inertial Upper Stage NASA programs lunar soil orbital servicing modules micrometeorites OSS-1 payload orbit transfer vehicles OSTA-1 payload orbital servicing spaceborne astronomy OSTA-2 payload payloads GS astronomy OSTA-3 payload propulsion spaceborne astronomy payload assist module space transportation system Alpha Magnetic Spectrometer payload delivery (STS) spacecraft propulsion Astro missions (STS) payload integration plan astronomical interferometry payload retrieval (STS) space vehicle checkout program astronomical satellites power modules (STS) spacecraft prelaunch tests Constellation-X remote manipulator system checkout Cosmic Background Explorer satellite Space Shuttle Main Engine countdown faint object camera Space Shuttle missions performance tests Fermi Gamma-ray Space Telescope Space Shuttle orbiters prefiring tests Gamma Ray Observatory Space Shuttle payloads spacecraft maintenance Granat satellite space shuttles Hipparcos satellite Space Transportation System flights Hubble Space Telescope space vehicle control space tugs Infrared Space Observatory (ISO) USE spacecraft control Spacelab ∞ systems James Webb Space Telescope space vehicles LISA (observatory) USE spacecraft Space Transportation System 1 flight Magellan ultraviolet astronomy OFT 1 satellite space weapons Orbital Flight Test 1 (shuttle) Microwave Anisotropy Probe GS weapons Space Shuttle Orbital Flight Test 1 Pinhole Occulter Facility space weapons STS-1 Quasat air to air missiles GS Space Transportation System flights **ROSAT** mission antimissile missiles . Space Transportation System 1 SAS-2 Chaparral missile flight SAS-3 laser weapons SOFIA (airborne observatory) Minuteman ICBM Space Infrared Telescope Facility Space Transportation System 2 flight nuclear weapons Starsat telescope Submillimeter Wave Astronomy OFT 2 surface to air missiles Orbital Flight Test 2 (shuttle) weapon systems Space Shuttle Orbital Flight Test 2 Satellite weapons delivery Swift observatory STS-2 Space Transportation System flights telescopes space weather Space Transportation System 2 ultraviolet telescopes (added June 1999) X Ray Astrophysics Facility flight (FOR METEOROLOGICAL CONDITIONS (FOR METEOROLOGICAL CONDITIONS RELATED TO THE MIDDLE AND LOWER ATMOSPHERES OF NON-EARTH PLANETS USE "PLANETARY METEOROLOGY".)
The dynamic, highly variable condispaceborne experiments

DEF A collective term designating the various experiments performed or planned in orbiting spacecraft and usually involving physical phenomena in space environments.

GS spaceborne experiments

Orbiting Free Orbitith Space Transportation System 3 flight OFT 3 Orbital Flight Test 3 (shuttle) tions of the geospace environment that encom-Space Shuttle Orbital Flight Test 3 passes the sun, the interplanetary medium, and magnetosphere-ionosphere-Earth Space Transportation System flights thermosphere system. Major contributing fac-Space Transportation System 3 Orbiting Frog Otolith
 Physics and Chemistry Experiment tors include variations in the solar wind, solar flight flares, and solar mass ejections. Effects of in Space space weather phenomena include perfor-Space Transportation System 4 flight . plasma interaction experiment mance degradation of communication, navigaaerospace environments AMPTE (satellites) OFT 4 tion, and power systems on both spacecraft and Orbital Flight Test 4 (shuttle) ground-based systems; and potential health Space Shuttle Orbital Flight Test 4 bioprocessing hazards during extravehicular activity.

RT Advanced Composition Explorer Columbus module STS-4 aerospace environments aerospace safety CRRES (satellite) Space Transportation System flights Space Transportation System 4 **Destiny Laboratory Module** experimentation fliaht Earth ionosphere geophysical fluid flow cells Earth magnetosphere Get Away Specials (STS) Space Transportation System flights Earth orbital environments International Space Station DEF Revised collective designation for all geomagnetism Kibo Japanese Experiment Module Space Shuttle flights. Used for OFT, orbital flight GOES 13 Long Duration Exposure Facility tests (shuttle), Space Shuttle orbital flight tests, interplanetary shock waves man tended free flyers and Space Shuttle orbital flights. ionospheric disturbances molecular shields OFT magnetic disturbances Multi-Purpose Logistics Modules orbital flight tests (shuttle) magnetic storms OSS-1 payload Space Shuttle Orbital Flight Tests Polar/GGS spacecraft OSTA-1 payload Space Shuttle Orbital Flights radiation hazards OSTA-3 payload **Space Transportation System** solar activity effects payload assist module solar terrestrial interactions payload integration plan . Space Transportation System 1 space plasmas payloads flight weather space laboratories . Space Transportation System 2 space manufacturing space weathering flight space processing . Space Transportation System 3 (added July 2001) Space Shuttle payloads flight DEF All processes that act on material exspace technology experiments posed to the space environment including mi-. Space Transportation System 4 Spacelab crometeorite impacts and interactions with solar flight weightlessness entry quidance (STS) wind, cosmic rays, and ambient plasma. Ingeophysical fluid flow cells cludes processes associated with exposure at the surface of airless planets or small bodies. Solar Cell Calibration Facility spaceborne lasers space flight GS exposure GS stimulated emission devices

. weathering

damage

RT

. space weathering

aerospace environments

Space Shuttle Main Engine

space transportation system

space shuttles

∞ systems

. lasers

airborne lasers

laser applications

spaceborne lasers

remote sensors Galileo probe wreckage Galileo spacecraft ground support equipment spaceborne photography spacecraft cabin atmospheres space photography hypersonic vehicles controlled atmospheres Indian space program imagery . cabin atmospheres Indian spacecraft . photography spacecraft cabin atmospheres inflatable spacecraft ... spaceborne photography carbon dioxide concentration . satellite-borne photography interplanetary spacecraft closed ecological systems RT aerial photography Israeli spacecraft cockpits astronomical photography Japanese space program environmental control black and white photography Japanese spacecraft high pressure oxygen cloud photography launch vehicles pressurized cabins lunar spacecraft rebreathing diffraction limited cameras Earth resources Magellan spacecraft (NASA) maneuverable spacecraft spacecraft cabin simulators lunar photographs lunar photography manned orbital laboratories simulators manned spacecraft . training simulators Mars photographs multispectral band scanners Mariner Mark 2 Spacecraft . spacecraft cabin simulators Mark 1 spacecraft training devices military spacecraft orbit transfer vehicles photomapping . training simulators photomaps spacecraft cabin simulators orbital maneuvering vehicles orbiting lunar stations outer planets explorers rocket-borne photography RT aerospace environments satellite observation cockpit simulators manned spacecraft spaceborne telescopes photo reconnaissance spacecraft simulation Pioneer Venus 2 spacecraft GS telescopes space flight training power limited spacecraft Radiation Meteoroid spacecraft spaceborne telescopes space logistics . . Constellation-X spacecraft recoverable spacecraft . . Fermi Gamma-ray Space test facilities reentry vehicles Telescope . . German Infrared Laboratory research vehicles spacecraft cabins . . Hubble Space Telescope satellites GS compartments Infrared Space Observatory (ISO) SERT 1 spacecraft . spacecraft cabins . . James Webb Space Telescope SERT 2 spacecraft spacecraft components Large Deployable Reflector Shuttle Derived Vehicles . spacecraft cabins . . LIRTS (telescope) soft landing spacecraft  $RT \, \infty \, cabins$ Solar Maximum Mission-A solar optical telescope cockpits Space Infrared Telescope Facility solettas crew experiment stations Starlab Soviet spacecraft crew observation stations space capsules . . Starsat telescope crew workstations X Ray Astrophysics Facility
 XMM-Newton telescope space debris pressurized cabins space laboratories space capsules space missions Astro missions (STS) astronomical observatories space shuttles spacecraft charging spacecraft cabin simulators astronomical photography DEF Electric charge induction upon the surastronomy spacecraft modules face of a spacecraft by magnetospheric plasmas technology feasibility spacecraft diffraction limited cameras or other ion sources. test vehicles faint object camera TOPS (spacecraft) RT electric fields Gamma Ray Observatory transatmospheric vehicles external surface currents multi-anode microchannel arrays single event upsets unidentified flying objects Next Generation Space Telescope unmanned spacecraft spacecraft glow project system generated electromagnetic vehicles optical transfer function Viking orbiter 1
Viking orbiter 2
Viking orbiter spacecraft pulses **ROSAT** mission Swift observatory Spacecraft Charging at High Altitude USE SCATHA satellite Voyager 1 spacecraft Voyager 2 spacecraft (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN X-30 vehicle spacecraft communication (COMMUNICATION OF SPACECRAFT WITH GROUND OR OTHER SPACECRAFT) DEF Devices, manned and unmanned, which are designed to be placed into an orbit about the Earth or into a trajectory to another celestial body. Used for space vehicles. X-37 vehicle SN The act of, or methods for, conveying spacecraft antennas information to or from manned or unmanned GS antennas space vehicles spacecraft . spacecraft antennas Advanced Reconn Electric Spacecraft telecommunication radio equipment aerospace vehicles . space communication spacecraft antennas air data systems . . spacecraft communication telecommunication Astro vehicle ... reentry communication spacecraft antennas astrodynamics satellite communication furlable antennas Atlantis (orbiter) ARPA computer network auxiliary propulsion astrionics biosatellites circumlunar communication Canadian spacecraft spacecraft breakup Earth terminals (added August 1989) cargo spacecraft facsimile communication Challenger (Orbiter) UF breakup (spacecraft) ground-air-ground communication Chinese spacecraft orbital breakup hoop column antennas Clementine spacecraft reentry breakup interplanetary communication Columbia (Orbiter) satellite breakup lunar communication Czechoslovakian spacecraft satellite fragmentation optical communication Discovery (Orbiter) atmospheric entry packet transmission dual spin spacecraft destruction plasma antennas Endeavour (orbiter) Enterprise (Orbiter) hazards radio communication meteoroid hazards satellite communications ships ESA spacecraft orbit decay satellite ground support escape rockets reentry effects single channel per carrier expandable structures space debris transmission flexible spacecraft spacecraft reentry system generated electromagnetic flight test vehicles spacecraft survivability pulses

uncontrolled reentry (spacecraft)

unified S band

French space program

wireless communication

### spacecraft components

### GS spacecraft components

- service modules
- . . Multi-Purpose Logistics Modules
- . spacecraft cabins
- . spacecraft docking modules
- . spacecraft modules
- . . command modules
- command service modules
- . . landing modules
- . lunar landing modules
- Lunar Module
- . . . . . Apollo lunar experiment
- module
- . LSSM
- . . . . Lunar Module 5
- . . . . . Lunar Module 7
- . Altair Lunar Lander . Mars Excursion Module
- . SIM

airborne/spaceborne computers

boron-epoxy composites

commonality ∞ components

nose cones

rocket engines

spacecraft computers

USE airborne/spaceborne computers

# spacecraft configurations

# GS spacecraft configurations

- . satellite configurations
- Space Shuttle Ascent Stage

aerodynamic configurations aircraft configurations

Apollo short stack

configurations flared bodies

launch vehicle configurations propulsion system configurations Radiation Meteoroid spacecraft

reentry vehicles

upper stage rocket engines

# spacecraft construction materials

 $RT \infty construction materials$ 

functionally gradient materials

Ludox (trademark)

∞ materials

materials selection

# spacecraft contamination

contamination

spacecraft contamination

decontamination exobiology

# spacecraft control

space vehicle control GS spacecraft control

- . satellite control
- . satellite attitude control

RT attitude control

automatic control

ocontrol

control simulation

crew procedures (preflight)

engine control flexible spacecraft

flight control

fly by wire control

formation flying

ground based control

manual control

Marquardt R4D engine

missile control

orbit determination pointing control systems

radio control

remote control rocket engine control

shape control stationkeeping

thrust vector control

visual control

## spacecraft defense

The protection of spacecraft from undesirable external forces. Used for satellite de-

UF satellite defense

RT spacecraft survivability stealth technology

vulnerability

### spacecraft design

DEF 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

### GS spacecraft design

. IPAD

satellite design

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

weight reduction

systems engineering

transatmospheric vehicles

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

. spacecraft docking

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 RT astrionics

single event upsets

spacecraft environments (added August 1989)

(LIMITED TO SPACECRAFT INTERNAL COMPARTMENTS AND CABINS; FOR SPACECRAFT EXTERNAL ENVIRONMENTS REFER TO 'EXTRATERRESTRIAL ENVIRONMENTS')

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

rormation 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.

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 guidance sensors

I2S cameras

instrument packages . spacecraft modules postlaunch reports . . command modules spacecraft position indicators laser altimeters command service modules measuring instruments . . landing modules GS display devices . position indicators onboard equipment . . . lunar landing modules spacecraft position indicators spacecraft equipment . . . . Lunar Module .... Apollo lunar experiment measuring instruments spacecraft landing module . indicating instruments GS landing .... LSSM . . position indicators . spacecraft landing ... spacecraft position indicators . . . . . Lunar Module 5 . . horizontal spacecraft landing spacecraft instruments . . . . . Lunar Module 7 .. lunar landing spacecraft position indicators . Altair Lunar Lander . . planetary landing . . . Mars Excursion Module flight instruments . Mars landing head-up displays . SIM aircraft landing spacecraft components orbit determination approach and landing tests (STS) orbital position estimation spacecraft modules crash landing . . command modules space navigation emergency landing command service modules glide landings . . landing modules
. . . lunar landing modules
. . . Lunar Module spacecraft power supplies hard landing DEF Sources of electrical energy, including landing simulation batteries, generators, and energy conversion devices, that support the normal operation of soft landing . . . . Apollo lunar experiment soft landing spacecraft spacecraft. module terminal area energy management electric power supplies . LSSM spacecraft power supplies touchdown . . . . Lunar Module 5 auxiliary power sources vertical landing . Lunar Module 7 cryocycle principle . . . . Altair Lunar Lander water landing direct power generators ... Mars Excursion Module electric batteries spacecraft launching . SIM satellite launching energy sources compartments launching
spacecraft launching free-piston engines GS Cupola Module laser power beaming Kibo Japanese Experiment Module . liftoff (launching) microwave power beaming man tended free flyers countdown Delta 4 Heavy launch vehicle nickel hydrogen batteries orbital assembly nuclear auxiliary power units service modules heavy lift launch vehicles HOTOL launch vehicle power beaming space capsules power modules (STS) space erectable structures o power supplies launch costs space station modules propellants launch dates solar dynamic power systems launch vehicles space station power supplies launch windows spacecraft motion thermophotovoltaic conversion launching pads (NONTRAJECTORY MOTION) missiles aerodynamic balance spacecraft prelaunch tests orbit insertion aerodynamic stability USE space vehicle checkout program attitude stability orbital launching buffeting orbital shots spacecraft propulsion control stability postlaunch reports DEF The action or process of imparting prelaunch summaries dynamic stability motion to a spacecraft by means of a force such railgun accelerators flexible spacecraft as a thrust of air or energy released by burning reusable launch vehicles flutter fuel. ∞ motion rocket launching GS propulsion space commercialization motion stability . spacecraft propulsion oscillations . . electromagnetic propulsion . . . magnetic sails spacecraft lubrication sideslip space environmental lubrication stability . . electrostatic propulsion . . . ion propulsion GS tumbling motion spacecraft lubrication vibration . . matter-antimatter propulsion RT self lubricating materials . negative matter propulsion . photonic propulsion spacecraft orbital assembly spacecraft maintenance USE orbital assembly maintenance . . . laser propulsion GS spacecraft maintenance spacecraft orbits . . plasma propulsion . . solar propulsion checkout GS orbits . . . solar electric propulsion . . . solar thermal propulsion prelaunch tests . spacecraft orbits space vehicle checkout program . . satellite orbits spacecraft reliability ... geosynchronous orbits chemical propulsion turnaround (STS) parking orbits descent propulsion systems ... stationary orbits electric propulsion spacecraft maneuvers ... twenty-four hour orbits fusion propulsion satellite maneuvers . . transfer orbits Hall thrusters GS maneuvers . interplanetary transfer orbits laser propulsion . spacecraft maneuvers circular orbits low thrust propulsion . spacecraft docking Earth orbits magnetic nozzles control simulation elliptical orbits magnetoplasmadynamic thrusters magnetoplasmadynamics formation flying equatorial orbits maneuverability lunar orbits mass drivers maneuverable spacecraft orbit insertion nuclear electric propulsion nuclear propulsion orbit insertion orbital mechanics space flight orbital position estimation oxygen-hydrocarbon rocket engines post boost propulsion system planetary orbits spacecraft models retrograde orbits propellants pulsed inductive thrusters GS models solar orbits spacecraft models pulsed plasma thrusters aircraft models spacecraft performance rocket engines dynamic models DEF The manner or effectiveness in which rocket-based combined-cycle engines mathematical models any space vehicle, space platform, or space Rover project station functions while in operation in space, or scale models solar sails

in a simulated space environment.

RT astronaut performance

∞ performance

space flight

space tugs

space station propulsion

spacecraft modules

GS modules

total impulse VASIMR (propulsion system)

spacecraft radiators

RT

space radiators GS heat radiators

spacecraft radiators

condensers (liquefiers) cooling cooling systems radiative heat transfer solar reflectors

spacecraft recovery

satellite capture snatching

RT booster recovery

Discoverer recovery capsules

recoverable spacecraft

∞ recovery recovery parachutes

recovery zones rescue operations reusable launch vehicles Space Shuttle orbiters space shuttles water landing

spacecraft reentry

GS atmospheric entry

. reentry

... spacecraft reentry

. uncontrolled reentry (spacecraft)

Earth-Venus trajectories entry guidance (STS) flight mechanics hypersonic reentry nypersonic reentry lifting reentry vehicles manned reentry return to Earth space flight satellite lifetime spacecraft breakup

spacecraft reliability

GS reliability

spacecraft reliability

circuit reliability component reliability controllability prelaunch problems quality control spacecraft maintenance

spacecraft rendezvous

USE space rendezvous

spacecraft sensors

USE spacecraft instruments

spacecraft shielding GS shielding

spacecraft shielding

aeroshells heat shielding ∞ insulated structures meteoroid protection nose cones

radiation shielding radio frequency shielding reentry shielding reusable heat shielding

safety devices

solar radiation shielding

spacecraft stability

satellite attitude disturbance

dynamic characteristics . dynamic stability

.. motion stability

. . spacecraft stability stability

. dynamic stability

. . motion stability . . spacecraft stability

aerodynamic balance aerodynamic stability attitude stability buffeting control stability counterbalances

directional stability

Discos (satellite attitude control)

dual spin spacecraft lateral stability liquid sloshing longitudinal stability low speed stability nutation dampers satellite perturbation tumbling motion wind tunnel stability tests

spacecraft sterilization

GS cleaning

. sterilization

. spacecraft sterilization

decontamination

spacecraft sterilization

chemical sterilization ethylene oxide exobiology planetary protection planetary quarantine purification sterilization effects

spacecraft structures

RT 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

GS 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.

prical, 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 Apollo Soyuz test project command modules manned space flight rendezvous spacecraft space logistics

spacecrews

personnel GS

. 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 GS 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)

# Spacelab payloads

GRIST (telescope) ing conservation laws in continuum mechanics, wing span LIRTS (telescope) where both local and global flux conservations NASA programs are enforced in space and time. The method is Spanish Sahara OSTA-2 payload characterized by low dispersion errors and low Africa SEPAC (payload) nations CE/SE method Skylab program Spain space shuttles conservation element and solution space transportation system element Spanish space program spaceborne experiments analysis (mathematics) (added March 1989) . numerical analysis GS programs . space-time CE/SE method . space programs . . European space programs Spacelab payloads aeroacoustics DEF A general, collective term for the dicomputational fluid dynamics ... Spanish space program verse and numerous ESA payloads planned for conservation equations space experiments. conservation laws spanloader aircraft payloads flow equations . Spacelab payloads DEF Advanced distributed-load cargo air-AMPS (satellite payload) craft configurations in which the payloads are space-time continuum . . Atmospheric Cloud Physics Lab distributed across the span of the wing for a USE relativity close match between aerodynamic and inertial (Spacelab) . . Atmospheric General Circulation loading for minimal bending stresses. space-time functions transport aircraft Experiment UF space-time metric geophysical fluid flow cells . cargo aircraft GS functions (mathematics) . spanloader aircraft . Solar Cell Calibration Facility space-time functions RT ∞ aircraft annular suspension and pointing light-cone expansion RT system supercritical wings Minkowski space Astro missions (STS) swept wings naked singularities Get Away Specials (STS) sortie systems relativity spanwise blowing Yang-Mills theory GS blowing space station payloads . spanwise blowing space-time metric cross flow Spacelab simulation flights USE space-time functions externally blown flaps USE Assess program jet flow spacewalks Spacelab UV-Optical Telescope Facility lift augmentation (added April 2001) USE Starlab pressure distribution USE extravehicular activity tangential blowing wing span spacers spacing RT bushings GS spacing SPAR (rocket) dividers aircraft approach spacing fasteners Space Processing Applications altitude control inserts Rocket attitude control isolators clearances spare parts separators intervals RT ∞ components spacing isolation damage assessment washers (spacers) positioning downtime ∞ separation engine parts spacetennas spacers The transmitting antennas of a solar inventory management thickness power satellite transmission system which dilogistics management rects the high-power beam from space to a focus on the rectennas on Earth. maintenance SPADATS (tracking system) modules space detection and tracking USE redundant components GS antennas system retirement for cause . radio antennas . . microwave antennas Spain spark chambers . . spacetennas nations GS GS ionization chambers microwave equipment Spain . spark chambers . microwave antennas Canary Islands . spacetennas measuring instruments Andorra RT radio equipment . counters Europe . . radiation counters . radio antennas Gibraltar . . microwave antennas . . . spark chambers Pyrenees Mountains (Europe) . . spacetennas . radiation measuring instruments Spanish Sahara . . radiation counters microwave transmission Spanish space program rectennas spark chambers RT bubble chambers spallation space-time adaptive processing ∞ chambers GS nuclear radiation (added November 2002) cloud chambers spallation electric sparks nuclear reactions neutron counters spallation

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.

UF STAP (radar) 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)

A numerical framework used for solv-

```
spalling
 DEF
        Spontaneous separation of a surface
layer from a metal.
        chipping
        flaking
        fracturing
        fragmentation
```

particle production

# ∞ span

RT

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

dimensions life span

width

wear tests

spark ignition

ignition GS

spark discharges

spark gaps

USE electric sparks

spark gaps

arc generators

electric fields

electric sparks

electrical faults

multipactor discharges

potential gradients

dielectrics

gaps

. spark ignition RT combustion

trigatrons

electric ignition electric sparks eudiometers spark machining electroerosion electrostatic erosion GS cutting spark machining machining spark machining RT electroforming erosion metal cutting piercing spark plugs arc generators combustion chambers electric sparks igniters ignition systems internal combustion engines spark shadowgraph photography shadowgraph photography sparks GS sparks electric sparks RT ignition Sparrow 2 missile GS missiles . air to air missiles . . Sparrow missiles . . Sparrow 2 missile solid propellant rocket engines Sparrow 3 missile GS missiles . air to air missiles . . Sparrow missiles . . Sparrow 3 missile liquid propellant rocket engines Sparrow missiles GS missiles . air to air missiles . . Sparrow missiles Sparrow 2 missile . . Sparrow 3 missile RT solid propellant rocket engines Spartan missile missiles GS . antimissile missiles . . Spartan missile Nike-Zeus missile RT Sentinel system Sprint missile surface to air missiles Spartan satellites GS artificial satellites . scientific satellites . . astronomical satellites . . Spartan satellites observatories . astronomical observatories . . astronomical satellites . . Spartan satellites astrophysics solar physics ultraviolet astronomy SPAS (ESA platforms) Shuttle pallet satellites USE spasms muscular function GS spasms RT contraction involuntary actions muscles spatial dependencies dependence GS spatial dependencies

mathematical models

RT

∞ space

time dependence spatial distribution UF Moliere formula spatial isotropy distribution (property) spatial distribution . . horizontal distribution . . vertical distribution . . . star distribution . . geographic distribution anisotropy ion distribution meteoroid concentration particle density (concentration) position (location) satellite constellations stereochemistry teleconnections (meteorology) temporal distribution Voronoi diagrams spatial filtering GS filtration spatial filtering aberration attenuation augmentation blurring ∞ filters Gabor filters holography images ∞ noise photographs photointerpretation plane waves resolution speckle holography spatial isotropy USE isotropy spatial distribution spatial marching Techniques for solving partial differential equations that move along in a space direc-RT acoustic ducts duct geometry numerical analysis time marching spatial orientation USE attitude (inclination) spatial resolution DEF The precision with which an optical instrument can produce separable images of resolution GS

different points on an object.

spatial resolution

atmospheric correction high resolution image processing image resolution imaging techniques

spectral resolution temporal resolution

SPDL

USE document markup languages

### species diffusion GS

diffusion

species diffusion biological diversity evolution (development) genetics geographic distribution

specific gravity

USE density (mass/volume)

# specific heat

DEF The ratio of the heat absorbed (or released) by unit mass of a system to the corresponding temperature rise (or fall). Used for Debye temperature and heat capacity.

UF Debye temperature

heat capacity

GS heat

. specific heat thermodynamic properties

. thermophysical properties

. specific heat

enthalpy equipartition theorem Gruneisen constant heat budget heat of fusion ion temperature Lewis numbers melting points neel temperature thermal conductivity thermal resistance

### specific impulse

GS impulses

specific impulse mass flow rate propellant mass ratio propellants

propulsion system performance propulsive efficiency

rocket propellants rocket thrust

thermodynamic efficiency

thrust total impulse

# specifications

DEF Precise statements or sets of requirements to be satisfied by materials, products, systems, or services.

specifications aircraft specifications equipment specifications
 functional design specifications

RT aircraft performance

commonality drawings inspection maintenance ∞ materials tests

mechanical properties

naming

performance tests process control (industry)

procurement quality quality control reliability requirements standardization standards technical writing tolerances (mechanics) user requirements

# specimen geometry

geometry GS

specimen geometry

fatigue tests load tests mechanical properties tensile tests

### specimens

Mars surface samples samples sampling

# speckle holography

DEF An imaging technique whereby a speckle pattern results from laser illumination of a diffusely reflecting surface when interference occurs between the fields passing through the various portions of lens aperture. Information about the motion of an object can then be obtained from the imaged fringes resulting from the translation of two speckle patterns.

GS imagery

. photography

. . holography . . speckle holography

imaging techniques

speckle holography

coherent light

diffraction patterns hologrammetry holographic interferometry image correlators laser applications scatter plates (optics) spatial filtering speckle interferometry speckle patterns

# speckle interferometry

DEF An imaging process whereby the pattern on the image plane of an interferometer is the result of interference between two mutually coherent, but randomly speckled, fields of two, lens formed images from laser illuminated, diffusely reflecting surfaces.

GS interferometry

### speckle interferometry

diffraction patterns Fresnel diffraction Fresnel reflectors infrared interferometers isochromatics laser applications null zones plasma flux measurement Sagnac effect scatter plates (optics) speckle holography

### speckle patterns

diffraction patterns holography laser outputs light scattering ∞ patterns speckle holography surface roughness effects

### spectra

optical spectrum

# spectra

- . atomic spectra
- . continuous spectra
- . energy spectra
- . . electronic spectra
- . . neutron spectra
- . mass spectra . molecular spectra
- . . electronic spectra
- Raman spectra
- . . rotational spectra
- . vibrational spectra
- . noise spectra
- . oxygen spectra
- . plasma spectra . power spectra
- . . cepstra . radiation spectra
- . . absorption spectra . . . Fraunhofer lines
- . Herzberg bands
- . . . telluric lines
- . . 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

- . . emission spectra
- . shock spectra
- . spectral bands
- . . absorption spectra
- Fraunhofer lines
- . . . Herzberg bands
- . telluric lines
- . . diffuse interstellar bands
- . . photoluminescent bands
- . . Schumann-Runge bands
- Swan bands
- . Vegard-Kaplan bands

astronomical spectroscopy color

excitons

flux density

gamma ray spectrometers isoelectronic sequence

spectral sensitivity

spectral sensitivity spectral shift control spectral theory spectrograms spectrographs

spectrometers spectroscopy

spectrum analysis

transition probabilities

spectral absorption

USE absorption spectra

spectral analysis

USE spectrum analysis

# spectral bands

spectra

# spectral bands

- . . absorption spectra
- ... Fraunhofer lines
- Herzberg bands telluric lines
- . . diffuse interstellar bands
- . . photoluminescent bands
- Schumann-Runge bands
- . . Swan bands
- . Vegard-Kaplan bands

band ratioing

∞ bands

electronic spectra energy bands

frequencies

line spectra

visible spectrum white noise

spectral correlation GS correlation

spectral correlation

electromagnetic spectra spectrophotography

# spectral counterparts (astronomy) (added August 2005)

DEF Corresponding radiation sources of different spectral regions that are believed to be associated with the same astronomical object.

gamma ray sources (astronomy) radiation sources

radio sources (astronomy)

Swift observatory

x ray sources

# spectral emission

GS emission

# spectral emission

continuous spectra electromagnetic radiation

emittance

incandescence

light emission line spectra

nongray gas ∞ radiation

spectrograms

spectroscopy spectrum analysis

spontaneous emission

ultraviolet emission

wavelengths

# spectral energy distribution

GS distribution (property)

. energy distribution

### spectral energy distribution

RT ∞ distribution

electromagnetic radiation

energy spectra

fine structure line spectra

### spectral line width

GS bandwidth

line spectra oscillator strengths

spectral lines

USE line spectra

differential equations

spectrum analysis

(added July 2000)
DEF Linear algebraic method for defining

UF SMA (image analysis)

. spectral mixture analysis

. spectral mixture analysis

spectral mixture analysis

image processing

remote sensing

spectral noise

# spectral reconnaissance

GS

spectral reconnaissance

multispectral band scanners

photoreconnaissance

radar photography satellite-borne photography spectrophotography

DEF The ratio of the reflected flux to the

electromagnetic properties

. . spectral reflectance

spectral reflectance

bidirectional reflectance

leaf area index

spectrometers

spectroscopy spectrum analysis vegetative index

### spectral resolution GS resolution

analog computers

Landsat 6 Landsat 7

line spectra Q factors

spectral line width

# spectral methods

RT computational fluid dynamics

methodology

# spectral mixture analysis

subpixel fractions for each of the spectral endmembers (e.g., ground cover categories) that constitute a mixed-pixel spectral signature.

GS discrimination

image analysis

spectrum analysis

pixels principal components analysis

spectral reflectance

# USE white noise

reconnaissance

Earth resources

electromagnetic spectra

multispectral photography multispectral radar

spectral reflectance

spectrally homogeneous incident flux.

. optical properties . . reflectance

surface properties

imaging spectrometers plant stress spectral mixture analysis

spectral resolution

radar resolution

radiometric resolution spatial resolution spectrum analysis

spectral response (added August 2000) USE spectral sensitivity

spectral sensitivity
DEF In electronics, radiant sensitivity considered as a function of wavelength, or in physics, the response of a device or material to monochromatic light as a function of wavelength; also known as spectral response.

spectral response

GS sensitivity

spectral sensitivity

frequency response instrument errors photothermal conversion spectra

# spectral shift control

DEF Type of reactor moderator control in which the neutron spectrum is intentionally changed.

RT ∞ control spectra

# spectral shift control reactor

GS nuclear reactors

. liquid cooled reactors

. water cooled reactors

. . . pressurized water reactors

. . . spectral shift control reactor

RT ∞ control

# spectral signatures

GS signatures

# . spectral signatures

. microwave signatures

cepstral analysis chemical analysis chemical composition crop identification emission spectra identifying optical measurement spectrum analysis

# spectral theory

RT Lyman spectra spectra ∞ theories

# spectrograms

RT line spectra spectra spectral emission spectrographs spectrophotography spectroscopy spectrum analysis

### spectrographs

GS spectrographs

high dispersion spectrographs

spectra spectrograms spectrometers spectroscopic analysis spectroscopy

### spectroheliographs

Instruments for taking photographs (spectroheliograms) of the image of the sun in monochromatic light. The wavelength of light chosen for this purpose corresponds to one of the Fraunhofer lines, usually the light of hydrogen or ionized calcium. Used for heliographs, heliography, and spectrohelioscopes.

heliographs heliography spectrohelioscopes imagery

. spectroheliographs measuring instruments . radiation measuring instruments

. . actinometers

... spectroheliographs

. spectrometers

spectroheliographs

optical equipment

spectroheliographs

solar instruments spectroheliographs

black and white photography

coronagraphs solar spectrometers Starsat telescope

### spectrohelioscopes

USE spectroheliographs

### spectrometers

spectroscopes

GS measuring instruments

. spectrometers

. . Ebert spectrometers

. . Fabry-Perot spectrometers

. . gamma ray spectrometers

imaging spectrometers

. . infrared spectrometers

. filter wheel infrared spectrometers

. . laser spectrometers

. . mass spectrometers

. . microwave spectrometers

. . neutron spectrometers

. . Solar Backscatter UV

Spectrometer

. . solar spectrometers

spectroheliographs

. . time of flight spectrometers

. . ultraviolet spectrometers

... high dispersion spectrographs
... Total Ozone Mapping
Spectrometer

. . Alpha Magnetic Spectrometer . . x ray spectrometers

actinometers chemical analysis diffractometers

electron probes

goniometers

infrared spectroscopy

Michelson interferometers

optical equipment optical measurement

photogoniometers

photographic measurement

photometers

radiation counters solar instruments

spectra

spectral reflectance

spectrographs

spectroradiometers

spectroscopic analysis

spectroscopy

spectrum analysis

spectrometry

USE spectroscopy

# spectrophotography

imagery

. photography

spectrophotography

spectroscopy

spectrograms

spectrophotography

black and white photography ground truth spectral correlation spectral reconnaissance

# spectrophotometers

GS measuring instruments

. optical measuring instruments . . spectrophotometers

... infrared spectrophotometers

... ultraviolet spectrophotometers . radiation measuring instruments

. . actinometers

spectrophotometers

... infrared spectrophotometers . ultraviolet spectrophotometers

optical equipment . optical measuring instruments

. . spectrophotometers

... infrared spectrophotometers

.. ultraviolet spectrophotometers

chemical analysis duochromators monochromators optical measurement photometers radiometers

spectroradiometers spectroscopic analysis spectroscopy

# spectrophotometry

optical measurement

. photometry . . spectrophotometry

. . stellar spectrophotometry spectroscopy

. spectrophotometry

. stellar spectrophotometry

astronomical photometry colorimetry

imaging spectrometers spectroscopic analysis

# spectrophotovoltaics

The enhancement of solar cell productivity by concentrating and subdividing the sun-light spectrum and focusing on specific spec-trum efficient solar cells.

energy conversion efficiency energy spectra solar cells solar collectors

# spectropolarimeters

USE polarimeters

# spectroradiometers

GS measuring instruments

. radiation measuring instruments

. . actinometers

. . . radiometers

. . . spectroradiometers

.... MISR (radiometry) . . . . MODIS (radiometry)

RT spectrometers spectrophotometers

spectroscopes

USE spectrometers

spectroscopic analysis
SN (FOR SPECTROSCOPIC TOOLS IN CHEMICAL ANALYSIS)
GS chemical tests
chemical analysis

. . spectroscopic analysis

spectroscopic analysis
spectroscopic analysis
Auger spectroscopy
auroral spectroscopy
electrophotometry
flame spectroscopy

Fraunhofer line discriminators

gas spectroscopy inductively coupled plasma mass

spectrometry infrared spectroscopy laser spectroscopy laser-induced breakdown

spectroscopy magnetic spectroscopy mass spectroscopy

metallicity microanalysis

molecular spectroscopy neutron activation analysis nuclear radiation spectroscopy photoelectron spectroscopy

qualitative analysis quantitative analysis Raman spectroscopy

spectrographs spectrometers spectrophotometers

spectrophotometry ultraviolet spectroscopy vacuum spectroscopy

	x ray spectroscopy		gamma ray spectrometers		voice control
onootro	oceania telegoponea		holographic spectroscopy		
•	oscopic telescopes diffraction telescopes		hyperfine structure	speech	
UF			Kramers-Kronig formula	USE	lectures
GS	telescopes		laser spectroscopy	annad	
	. spectroscopic telescopes		line spectra	speed	volecity
	multispectral tracking telescopes		magnetic resonance	USE	velocity
ОТ	stratoscope telescopes		optical resonance		tv-l
RT	astronomical spectroscopy		signal analysis		control
	reflecting telescopes		spectra	UF	speed regulation
	refracting telescopes		spectral emission	RT	automatic control
	stellar spectrophotometry		spectral methods	•	∞ control
			spectral reflectance		control equipment
spectro			spectral resolution		controllers
UF	spectrometry		spectral signatures		engine control
GS	spectroscopy		spectrograms		helicopter control
	. absorption spectroscopy		spectrometers		manual control
	optogalvanic spectroscopy		spectroscopy		regulators
	. astronomical spectroscopy		Stark effect		
	stellar spectrophotometry		toroidal discharge		indicators
	. Auger spectroscopy		ultrasonic spectroscopy	UF	Preston tubes
	. auroral spectroscopy		ultraviolet spectroscopy		speedometers
	. electron spectroscopy		Zeeman effect	GS	display devices
	. flame spectroscopy				. speed indicators
	. gas spectroscopy	specula	ar reflection		tachometers
	. holographic spectroscopy	DEF	Reflection in which the reflected radia-		measuring instruments
	. infrared spectroscopy		ot diffused; reflection as from a mirror.		. indicating instruments
	ion mobility spectroscopy	GS	reflection		speed indicators
	. laser-induced breakdown	0.0	. specular reflection		tachometers
	spectroscopy	RT	diffuse radiation	RT	accelerometers
	. magnetic spectroscopy	111	etalons		aircraft instruments
	magnetic resonance spectroscopy				anemometers
	. mass spectroscopy		glare		approach indicators
			mirrors		flight instruments
	inductively coupled plasma mass				3
	spectrometry	speech			flowmeters
	secondary ion mass spectrometry	GS	speech		landing instruments
	. molecular spectroscopy		. articulation (speech)		pitot tubes
	Raman spectroscopy		. conversation		velocity measurement
	. nuclear radiation spectroscopy		. phonemes		
	. optical emission spectroscopy		. phonetics		regulation
	laser spectroscopy		. talking	USE	speed control
	optogalvanic spectroscopy	RT	acoustics		
	. photoacoustic spectroscopy		auditory perception		regulators
	photoelectron spectroscopy		consonants (speech)	UF	governors
	. radio spectroscopy		English language	GS	control equipment
	. spectrophotography		languages		. regulators
	. spectrophotometry		lectures		speed regulators
	stellar spectrophotometry		linguistics	RT	
	. photothermal deflection		phonemics		engines
	spectroscopy		•		5.1g55
	. spectroscopic analysis		public speaking	speedo	meters
			semantics		speed indicators
	. ultrasonic spectroscopy		sentences	OOL	Specu mulcators
	. ultraviolet spectroscopy		syntax	spent f	inole
	. vacuum spectroscopy		voice	DEF	Nuclear reactor fuels irradiated to the
БТ	x ray spectroscopy		voice communication		
RT	chemical analysis		words (language)		hat they no longer can effectively sustain
	cinespectrographs				reaction.
	colorimetry	speech	baseband compression	GS	fuels
	electrophotometry	DEF	Technique for reducing the bandwidth		. nuclear fuels
	Fraunhofer line discriminators	required	to represent the human voice wave-		spent fuels
	isoelectronic sequence	form.		RT	fuel capsules
	Lallemand cameras	GS	compressing		neutron sources
c	∞ optics		speech baseband compression		∞ nuclear energy
	photometry	RT	bandwidth		nuclear fuel reprocessing
	pressure broadening		vocoders		reactor materials
	spectra		voice communication		recycling
	spectral emission		waveforms		
	spectral reflectance			sperma	tocytes
	spectrograms	speech	defects	USE	gametocytes
	spectrographs		defects		
	spectrometers		. speech defects	sperma	atogenesis
	spectrophotometers	RT	articulation (speech)	RT	abiogenesis
	spectrum analysis	• • • • • • • • • • • • • • • • • • • •	phonemics		gametocytes
	time of flight spectrometers		phonetics		spermatozoa
	visible spectrum		prioriotioo		-F
		cnooch	discrimination	sperma	210703
	x ray spectrometers	USE		GS	
	Zeeman effect	USE	Special recognition	GS	. gametocytes
one-t-	ım analysis	onesst	recognition		
	ım analysis		recognition	DT	spermatozoa
UF		UF		RI	fertilization
GS	•	GS	intelligibility		spermatogenesis
	cepstral analysis		. speech recognition		zygotes
	. flame spectroscopy		recognition		
	. maximum entropy method		speech recognition	Spert r	eactors
	. spectral mixture analysis	RT		GS	nuclear reactors
RT	absorption spectra		linguistics		. liquid cooled reactors
	∞ analyzing		phonemes		water cooled reactors
	emission spectra		phonemics		boiling water reactors
	frequency analyzers		phonetics		Spert reactors
	frequency scanning		sensory discrimination		. nuclear research and test reactors
	nequency scanning		ochoory discrimination		. Hudical research and lest reactors

. . Spert reactors . . . . spherical plasmas space plasmas SPF (materials) spherical shells sphygmography USE superplastic forming GS shells (structural forms) RT arteries spherical shells bioinstrumentation sphalerite spherical caps blood pressure USE zincblende bodies of revolution heart rate circular shells ∞ measurement spheres hemispherical shells recording instruments GS symmetrical bodies metal shells . bodies of revolution spicules reinforced shells . . spheres DEF Bright spikes extending into the chrorotating spheres ... celestial sphere mosome of the sun from below. spheres . . . concentric spheres GS stellar activity stressed-skin structures . . . falling spheres . solar activity thin walled shells . spicules ... Poincare spheres RT chromosphere . . rotating spheres spherical tanks aerodynamic configurations GS tanks (containers) photosphere asphericity solar atmosphere spherical tanks balls fuel tanks circles (geometry) spiders pressure vessels Euclidean geometry GS animals propellant tanks geometry . invertebrates storage tanks ∞ globes . . arthropods ... spiders globules spherical waves ∞ hemispheres cylindrical waves hemispherical shells spike antennas diffraction paths microballoons USE monopole antennas diffraction propagation nodules elastic waves spike nozzles ogives electromagnetic radiation spherical shells GS exhaust nozzles Huygens principle spike nozzles spheroids plane waves aerospike engines spherules point sources conical nozzles three dimensional flow nozzle geometry spherical antennas GS antennas ∞ nozzles . spherical antennas plug nozzles spheroids rocket nozzles communication equipment Ellipsoids; figure resembling spheres. ∞ spikes electronic equipment geometry . Euclidean geometry spherical caps spike potentials . . analytic geometry shells (structural forms) potential energy GS ... spheroids electric potential spherical shells .... oblate spheroids spike potentials . spherical caps ... prolate spheroids RT ∞ caps bioelectricity RT falling spheres coverings depolarization geoids spikes nose cones spheres seals (stoppers) ∞ spikes spheromaks (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) fasteners spherical coordinates DEF Toroidal fusion reactors. DEF A system of curvilinear coordinates in nuclear reactors which the position of a point in space is desig-. fusion reactors nated by its distance from the origin or pole (the . spheromaks holders radius vector), the angle phi between the radius dense plasmas monopole antennas vector and a vertically directed polar axis (the magnetic field configurations pins cone angle or coaltitude) and the angle theta spike nozzles magnetic mirrors between the plane of the phi and a fixed meridspike potentials plasma control ian plane through the polar axis (the polar angle spikes (aerodynamic configurations) plasma currents or longitude). Used for curvilinear coordinates.

UF curvilinear coordinates ∞ reactors spikes (aerodynamic configurations) tokamak devices GS coordinates RT ∞ spikes toroidal plasmas spherical coordinates wind tunnels astronomical coordinates spherules celestial reference systems spiking GS spherules geocentric coordinates electron beam welding . spherulites planetocentric coordinates melting RT crystals polar coordinates metal cutting spheres position (location) ∞ reference systems spilling spherulites RT dumping GS crystals spherical harmonics emptying . crystallites GS analysis (mathematics) jettisoning . spherulites . complex variables oil slicks spherules . spherical harmonics releasing spherulites functions (mathematics) spreading crystal structure spherical harmonics microcrystals spin microstructure spherical harmonics GS spin nodules Legendre functions . metal spinning rosette shapes . . hydrospinning spherical plasmas . particle spin **SPHINX** DEF Confined circular plasmas. . electron spin (SPACE PLASMA HIGH VOLTAGE INTERACTION EXPERIMENTS) space plasma H/V interaction SN particles . . isotopic spin . charged particles UF . . nuclear spin . . energetic particles *experiments* . spin-orbit interactions . . . plasmas (physics) NASA programs . . electron capture spherical plasmas plasma interaction experiment . spin-spin coupling angular momentum . corpuscular radiation plasma-particle interactions

plasmas (physics)

∞ research projects

... energetic particles ... plasmas (physics)

nuclear capture

∞ spinners

yo-yo devices interstellar matter spin stabilization spin decoupling spinning (metallurgy) spin tests whirling tests GS decoupling USE metal spinning UF spin decoupling angular momentum RT spinning solid upper stage RT photomagnetic effects dynamic tests DEF Space Shuttle upper stage designed environmental tests for launching of satellites not requiring the full spin dynamics load tests RT aircraft spin capacity of the interim upper stage; does not polarization (spin alignment) artificial gravity requires inertial guidance system nor three-axis ∞ tests dynamic tests stabilization; can handle payloads of the class whirl towers ∞ dynamics now launched by Delta or Atlas/ Centaur. electron spin GS Space Shuttle upper stages spin waves gyration spinning solid upper stage USE magnons lunar rotation booster rocket engines rotating matter upper stage rocket engines spinach GS farm crops spin exchange spinning unguided rocket trajectory spinach SPURT (trajectories) GS exchanging plants (botany) spin exchange GS trajectories spinach resonance charge exchange spinning unguided rocket vegetables trajectory spinach equations of motion spin forging  $RT \, \infty \, food$ USE metal spinning missile trajectories rotating bodies spinal cord symmetrical bodies GS anatomy DEF A magnetic alloy in which the concen-. nervous system tration of magnetic atoms is such that below a spinor groups . . central nervous system certain temperature their magnetic moments are GS algebra .. spinal cord no longer able to fluctuate thermally in time but . lie groups bones are still directed at random in loose analogy to . . spinor groups brain the atoms of ordinary glass. geometry neuroglia GS glass . differential geometry spinal cord injuries spin glass .. lie groups spine amorphous materials ... spinor groups magnetic properties metallic glasses spinal cord injuries spin-orbit interactions (added August 2004) spin-lattice relaxation GS nuclear reactions superconductivity DEF Penetrating and non-penetrating inju-. nuclear interactions ries to the spinal cord resulting from traumatic .. spin-orbit interactions external forces. . . electron capture spin reduction GS injuries particle interactions UF despinnina spinal cord injuries jet damping . nuclear interactions rates (per time)
. acceleration (physics)
. deceleration back injuries GS . . spin-orbit interactions spinal cord ... electron capture spine niga spin-orbit interactions whiplash injuries . . spin reduction . electron capture RT angular acceleration RT ∞ interactions destabilization spindles gravity gradient satellites RT shafts (machine elements) spin-spin coupling ∞ reduction spools GS coupling satellite rotation winding spin-spin coupling yo-yo devices spin spine spin-spin coupling spin resonance UF vertebral column RT couples GS resonance GS anatomy cross relaxation spin resonance . musculoskeletal system nuclear magnetic resonance . . bones spiral antennas particle spin . . . spine GS antennas . . . vertebrae . spiral antennas spin stabilization sciatic region DEF Directional stability of a spacecraft ob-. log spiral antennas spinal cord tained by the action of gyroscopic forces which antenna design spinal cord injuries result from spinning the body about its axis of broadband telemetry symmetry. spinel stabilization minerals spin stabilization spiral bevel gears spinel attitude control (added May 1999) aluminates gears coning motion ferrites dual spin spacecraft . bevel gears igneous rocks . . spiral bevel gears missiles **OV-1** satellites spin-lattice relaxation spiral galaxies OV-2 satellites magnetic properties GS celestial bodies **OV-3** satellites . magnetic relaxation . galaxies OV-4 satellites . spin-lattice relaxation OV-5 satellites . . spiral galaxies relaxation (mechanics) Andromeda Galaxy satellite orientation spin-lattice relaxation barred galaxies satellite rotation lattice vibrations . . Milky Way Galaxy Space Shuttle upper stage D nuclear magnetic resonance corotation space stations relaxation time density wave model  $\infty \, spinners$ spin glass disk galaxies spin temperature
SN (LIMITED TO ASTROPHYSICS) elliptical galaxies galactic bulge ∞ spinners (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) temperature galactic halos local group (astronomy)
Maffei galaxies . spin temperature RT absorption spectra antenna components astrophysics fairings peculiar galaxies hydrogen clouds ring galaxies slewing

spin

Seyfert galaxies

interstellar gas

	Tully-Fisher relation		. aerodynamic brakes		self ignition
	Virgo galactic cluster	RT	<b>split flaps</b> jet flaps	GS	combustion . spontaneous combustion
spiral w	vrapping	ПІ	leading edge slats	RT	combustion temperature
	composite materials		trailing edge flaps		explosions
	composite wrapping		wing flaps		fire point
	isotensoid structures	anlita (	200/0011		fire prevention
~	packaging spirals		geology) geological faults		flammability flash point
~	winding	USL	geological laulis		fuel combustion
	3	splittin	g		hazards
∞ spirals		GS	splitting		hypergolic rocket propellants
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		flux difference splitting     flux vector splitting		ignition
DT	LISTED BELOW)		. water splitting		ignition temperature propellant sensitivity
	curves (geometry) helices	RT	chipping		pyrophoric materials
	spiral wrapping		cutting		p)p
	spirals (concentrators)		fission	•	neous emission
			flaking	GS	emission
	(concentrators)		fracturing laser cutting	RT	. spontaneous emission atomic energy levels
GS	concentrators . spirals (concentrators)		∞ separation	111	electromagnetic radiation
	separators		slicing		emission spectra
	. spirals (concentrators)				spectral emission
	classifiers	spodui GS	nene aluminum compounds		
~	spirals	do	. spodumene	spools	∞ containers
spirome	oters		chalcogenides	ni	inserts
RT	heart minute volume		. oxides		magazines (supply chambers)
	lungs		silicon oxides		reels
	respiratory rate		spodumene		spindles
0.11.1	(Maria )		lithium compounds . spodumene		in E lavan
Spitsbe	rgen (Norway) archipelagoes		minerals	<b>sporad</b> GS	ic E layer Earth atmosphere
111	Arctic Ocean		. spodumene	ao	. upper atmosphere
	ocean currents		silicon compounds		Earth ionosphere
			. silicates		E region
	Space Telescope		sodium silicates spodumene		sporadic E layer
	ed December 2003) Space Infrared Telescope Facility		. silicon oxides		regions . E region
OOL	Space illitated relescope racinty		spodumene		sporadic E layer
splashi	ng		sodium compounds	RT	E-1 layer
UF	swash		. sodium silicates		E-2 layer
RT	agitation		spodumene		midlatitude atmosphere
	surface waves	spoiler	slot ailerons	cnorad	io motooroids
	ullage	<b>spoile</b> r GS	slot ailerons airfoils		ic meteoroids (METEOROIDS NOT ASSOCIATED WITH
		•	airfoils . ailerons	SN	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM)
spleen	ullage water landing	•	airfoils . ailerons spoiler slot ailerons		(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies
<b>spleen</b> GS	ullage water landing anatomy	•	airfoils . ailerons spoiler slot ailerons control surfaces	SN	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids
	ullage water landing anatomy . immune systems	•	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons	SN	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids sporadic meteoroids
	ullage water landing anatomy . immune systems lymphatic system	•	airfoils . ailerons spoiler slot ailerons control surfaces	SN GS	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids sporadic meteoroids
	ullage water landing anatomy . immune systems	GS	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons spoiler slot ailerons	SN GS RT	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids sporadic meteoroids meteor trails meteoroid concentration
· GS RT	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia	GS RT <b>spoiler</b>	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons spoiler slot ailerons spoilers	SN GS RT spores	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids sporadic meteoroids meteor trails meteoroid concentration
GS RT <b>splicing</b>	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia	GS RT <b>spoiler</b> DEF	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons spoiler slot ailerons spoilers  s Plates, series of plates, combs, tubes,	SN GS RT spores	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids sporadic meteoroids meteor trails meteoroid concentration
GS RT <b>splicing</b> RT	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia  fasteners	RT spoiler DEF bars, o	airfoils . ailerons . spoiler slot ailerons control surfaces . ailerons . spoiler slot ailerons spoilers  s Plates, series of plates, combs, tubes, r other devices that project into the air-	SN GS RT spores	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids sporadic meteoroids meteor trails meteoroid concentration
GS RT splicing	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia	RT  spoiler  DEF bars, o stream	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons spoiler slot ailerons spoilers  s Plates, series of plates, combs, tubes,	SN GS RT spores	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids sporadic meteoroids meteor trails meteoroid concentration  The reproductive elements of the lower of living organisms, usually unicellular.
GS RT splicing	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia  fasteners pioining	RT  spoiler DEF bars, o stream smooth that pro	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons spoiler slot ailerons spoilers  s Plates, series of plates, combs, tubes, rother devices that project into the airabout bodies to break up or spoil the ness of the flow, especially such devices oject from the upper surface of an airfoil,	SN GS RT spores	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids sporadic meteoroids meteor trails meteoroid concentration  The reproductive elements of the lower of living organisms, usually unicellular. spores . microspores biological weapons
GS RT splicing	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia  fasteners joining tapes wiring	RT  spoiler DEF bars, o stream smooth that pro	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons spoiler slot ailerons spoilers  S Plates, series of plates, combs, tubes, r other devices that project into the airabout bodies to break up or spoil the ness of the flow, especially such devices ject from the upper surface of an airfoil, ncreased drag and decreased lift.	SN GS RT spores DEF forms of	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids sporadic meteoroids meteor trails meteoroid concentration  The reproductive elements of the lower fliving organisms, usually unicellular. spores . microspores biological weapons fungi
GS RT splicing RT	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia  fasteners joining tapes wiring unctions	RT  spoiler DEF bars, o stream smooth that pro	airfoils ailerons spoiler slot ailerons control surfaces ailerons spoiler slot ailerons spoilers  S Plates, series of plates, combs, tubes, r other devices that project into the airabout bodies to break up or spoil the ness of the flow, especially such devices jeject from the upper surface of an airfoil, increased drag and decreased lift.	SN GS RT spores DEF forms of	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids sporadic meteoroids meteor trails meteoroid concentration  The reproductive elements of the lower of living organisms, usually unicellular. spores . microspores biological weapons fungi microorganisms
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spline f	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia  fasteners joining tapes wiring  unctions functions (mathematics) . spline functions	RT  spoiler DEF bars, o stream smooth that pro	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons spoiler slot ailerons spoilers  S Plates, series of plates, combs, tubes, r other devices that project into the airabout bodies to break up or spoil the ness of the flow, especially such devices ject from the upper surface of an airfoil, noreased drag and decreased lift. airfoils . spoilers control surfaces . spoilers drag devices	SN GS RT Spores DEF forms o GS RT	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids sporadic meteoroids meteor trails meteoroid concentration  The reproductive elements of the lower fliving organisms, usually unicellular. spores . microspores biological weapons fungi microorganisms plants (botany) protozoa tetrad theory
spline f	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia  fasteners pioning tapes wiring  unctions functions (mathematics) . spline functions approximation	RT  spoiler DEF bars, o stream smooth that pro giving i GS	airfoils ailerons spoiler slot ailerons control surfaces ailerons spoiler slot ailerons spoilers  S Plates, series of plates, combs, tubes, rother devices that project into the airabout bodies to break up or spoil the ness of the flow, especially such devices eject from the upper surface of an airfoil, noreased drag and decreased lift. airfoils . spoilers control surfaces . spoilers drag devices . spoilers	SN GS RT Spores GS RT Sports	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids sporadic meteoroids meteor trails meteor decord concentration  The reproductive elements of the lower of living organisms, usually unicellular. spores . microspores biological weapons fungi microorganisms plants (botany) protozoa tetrad theory medicine
spline f GS RT spline f GS RT	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia  fasteners joining tapes wiring  unctions functions (mathematics) . spline functions approximation matrix methods	RT  spoiler DEF bars, o stream smooth that pro	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons spoiler slot ailerons spoilers  Plates, series of plates, combs, tubes, r other devices that project into the air- about bodies to break up or spoil the ness of the flow, especially such devices oject from the upper surface of an airfoil, ncreased drag and decreased lift. airfoils . spoilers control surfaces . spoilers drag devices . spoilers aerodynamic brakes	SN GS RT Spores DEF forms o GS RT	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids sporadic meteoroids meteor trails meteoroid concentration  The reproductive elements of the lower of living organisms, usually unicellular. spores . microspores biological weapons fungi microorganisms plants (botany) protozoa tetrad theory  medicine medical science
spline f	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia  fasteners pioning tapes wiring  unctions functions (mathematics) . spline functions approximation	RT  spoiler DEF bars, o stream smooth that pro giving i GS	airfoils ailerons spoiler slot ailerons control surfaces ailerons spoiler slot ailerons spoilers  S Plates, series of plates, combs, tubes, rother devices that project into the airabout bodies to break up or spoil the ness of the flow, especially such devices eject from the upper surface of an airfoil, noreased drag and decreased lift. airfoils . spoilers control surfaces . spoilers drag devices . spoilers	SN GS RT Spores GS RT Sports	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids sporadic meteoroids meteor trails meteor decord concentration  The reproductive elements of the lower of living organisms, usually unicellular. spores . microspores biological weapons fungi microorganisms plants (botany) protozoa tetrad theory medicine
spline f GS RT spline f GS RT	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia  fasteners joining tapes wiring  unctions functions (mathematics) . spline functions approximation matrix methods	RT  spoiler DEF bars, o stream smooth that pro giving i GS	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons spoiler slot ailerons spoilers  S Plates, series of plates, combs, tubes, rother devices that project into the airabout bodies to break up or spoil the ness of the flow, especially such devices expect from the upper surface of an airfoil, noreased drag and decreased lift. airfoils . spoilers control surfaces . spoilers drag devices . spoilers aerodynamic brakes boundary layer control	spores GS RT  spores GS RT  sports GS	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids . sporadic meteoroids meteor trails meteoroid concentration  The reproductive elements of the lower of living organisms, usually unicellular. spores . microspores biological weapons fungi microorganisms plants (botany) protozoa tetrad theory  medicine medical science . sports medicine aerospace medicine athletes
spline f GS RT spline f RT spline RT	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia  fasteners joining tapes wiring  unctions functions (mathematics) . spline functions approximation matrix methods	RT  spoiler DEF bars, o stream smooth that pro giving i GS	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons spoiler slot ailerons spoilers  Plates, series of plates, combs, tubes, rother devices that project into the air-about bodies to break up or spoil the ness of the flow, especially such devices biject from the upper surface of an airfoil, noreased drag and decreased lift. airfoils . spoilers control surfaces . spoilers drag devices . spoilers aerodynamic brakes boundary layer control deflectors flaps (control surfaces) gust alleviators	spores GS RT  spores GS RT  sports GS	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids sporadic meteoroids meteor trails meteoroid concentration  The reproductive elements of the lower of living organisms, usually unicellular. spores . microspores biological weapons fungi microorganisms plants (botany) protozoa tetrad theory  medicine medical science . sports medicine aerospace medicine athletes clinical medicine
splines RT splints	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia  fasteners joining tapes wiring  unctions functions (mathematics) . spline functions approximation matrix methods  couplings fasteners holders	RT  spoiler DEF bars, o stream smooth that pro giving i GS	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons spoiler slot ailerons spoilers  S Plates, series of plates, combs, tubes, rother devices that project into the airabout bodies to break up or spoil the ness of the flow, especially such devices ontrol surfaces . spoilers control surfaces . spoilers aerodynamic brakes boundary layer control deflectors flaps (control surfaces) gust alleviators leading edge slats	spores GS RT  spores GS RT  sports GS	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids sporadic meteoroids meteor trails meteoroid concentration  The reproductive elements of the lower of living organisms, usually unicellular. spores . microspores biological weapons fungi microorganisms plants (botany) protozoa tetrad theory  medicine medicine aerospace medicine athletes clinical medicine exercise physiology
spline f GS RT spline f RT spline RT	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia  fasteners joining tapes wiring  unctions functions (mathematics) . spline functions approximation matrix methods  couplings fasteners holders  bones	RT  spoiler DEF bars, o stream smooth that pro giving i GS	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons spoiler slot ailerons spoilers  Plates, series of plates, combs, tubes, rother devices that project into the airabout bodies to break up or spoil the ness of the flow, especially such devices expect from the upper surface of an airfoil, increased drag and decreased lift. airfoils . spoilers control surfaces . spoilers drag devices . spoilers drag devices . spoilers drag devices boundary layer control deflectors flaps (control surfaces) gust alleviators leading edge slats spoiler slot ailerons	spores GS RT  spores GS RT  sports GS	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids sporadic meteoroids meteor trails meteoroid concentration  The reproductive elements of the lower of living organisms, usually unicellular. spores . microspores biological weapons fungi microorganisms plants (botany) protozoa tetrad theory  medicine medicine aerospace medicine athletes clinical medicine exercise physiology physical fitness
splines RT splints	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia  fasteners joining tapes wiring  unctions functions (mathematics) . spline functions approximation matrix methods  couplings fasteners holders	RT  spoiler DEF bars, o stream smooth that pro giving i GS	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons spoiler slot ailerons spoilers  S Plates, series of plates, combs, tubes, rother devices that project into the airabout bodies to break up or spoil the ness of the flow, especially such devices ject from the upper surface of an airfoil, noreased drag and decreased lift. airfoils . spoilers control surfaces . spoilers drag devices . spoilers aerodynamic brakes boundary layer control deflectors flaps (control surfaces) gust alleviators leading edge slats spoiler slot ailerons vortex alleviation	spores GS RT  spores GS RT  sports GS	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids sporadic meteoroids meteor trails meteoroid concentration  The reproductive elements of the lower of living organisms, usually unicellular. spores . microspores biological weapons fungi microorganisms plants (botany) protozoa tetrad theory  medicine medicine aerospace medicine athletes clinical medicine exercise physiology
splines RT splines RT splines	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia  fasteners joining tapes wiring  unctions functions (mathematics) . spline functions approximation matrix methods  couplings fasteners holders  bones casts first aid	RT  spoiler DEF bars, o stream smooth that pro giving i GS	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons spoiler slot ailerons spoilers  Plates, series of plates, combs, tubes, rother devices that project into the airabout bodies to break up or spoil the ness of the flow, especially such devices expect from the upper surface of an airfoil, increased drag and decreased lift. airfoils . spoilers control surfaces . spoilers drag devices . spoilers drag devices . spoilers drag devices boundary layer control deflectors flaps (control surfaces) gust alleviators leading edge slats spoiler slot ailerons	SPOT (	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids sporadic meteoroids meteor trails meteoroid concentration  The reproductive elements of the lower of living organisms, usually unicellular. spores . microspores biological weapons fungi microorganisms plants (botany) protozoa tetrad theory  medicine medical science . sports medicine aerospace medicine aerospace medicine athletes clinical medicine exercise physiology physical fitness physiological effects  (French satellite)
splicing RT splicing RT spline f GS RT splines RT splints RT	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia  fasteners joining tapes wiring  unctions functions (mathematics) . spline functions approximation matrix methods  couplings fasteners holders  bones casts first aid  ps	RT  spoiler DEF bars, o stream smooth that pro giving i GS	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons spoiler slot ailerons spoilers  S Plates, series of plates, combs, tubes, rother devices that project into the airabout bodies to break up or spoil the ness of the flow, especially such devices of the flow and decreased lift. airfoils . spoilers control surfaces . spoilers drag devices . spoilers aerodynamic brakes boundary layer control deflectors flaps (control surfaces) gust alleviators leading edge slats spoiler slot ailerons vortex alleviation wings	spores  Sports GS RT  sports GS RT  Sports GS RT	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids sporadic meteoroids meteor trails meteoroid concentration  The reproductive elements of the lower of living organisms, usually unicellular. spores . microspores biological weapons fungi microorganisms plants (botany) protozoa tetrad theory  medicine medical science . sports medicine aerospace medicine aerospace medicine athletes clinical medicine exercise physiology physical fitness physiological effects  (French satellite) French satellite with high visible reso-
splines RT splines RT splines	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia  fasteners joining tapes wiring  unctions functions (mathematics) . spline functions approximation matrix methods  couplings fasteners holders  bones casts first aid  ps airfoils	RT  spoiler  DEF bars, o stream smooth that pro giving i GS	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons spoiler slot ailerons spoilers  Plates, series of plates, combs, tubes, rother devices that project into the airabout bodies to break up or spoil the ness of the flow, especially such devices expect from the upper surface of an airfoil, increased drag and decreased lift. airfoils . spoilers control surfaces . spoilers drag devices . spoilers drag devices . spoilers deflectors flaps (control surfaces) gust alleviators leading edge slats spoiler slot ailerons vortex alleviation wings	spores  Spores  GS  RT  spores  GS  RT  Sports  GS  RT  Sports  GS  RT	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies
splicing RT splicing RT spline f GS RT splines RT splints RT	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia  fasteners joining tapes wiring  unctions functions (mathematics) . spline functions approximation matrix methods  couplings fasteners holders  bones casts first aid  ps airfoils . flaps (control surfaces)	RT  spoiler DEF bars, o stream smooth that pro giving i GS	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons spoiler slot ailerons spoilers  S Plates, series of plates, combs, tubes, rother devices that project into the airabout bodies to break up or spoil the ness of the flow, especially such devices of the flow and decreased lift. airfoils . spoilers control surfaces . spoilers drag devices . spoilers aerodynamic brakes boundary layer control deflectors flaps (control surfaces) gust alleviators leading edge slats spoiler slot ailerons vortex alleviation wings	spores GS RT  sports GS RT  sports GS RT	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies
splicing RT splicing RT spline f GS RT splines RT splints RT	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia  fasteners joining tapes wiring  unctions functions (mathematics) . spline functions approximation matrix methods  couplings fasteners holders  bones casts first aid  ps airfoils . flaps (control surfaces) . split flaps	spoiler DEF bars, o stream smooth that pro giving i GS	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons spoiler slot ailerons spoilers  Plates, series of plates, combs, tubes, rother devices that project into the airabout bodies to break up or spoil the ness of the flow, especially such devices bject from the upper surface of an airfoil, noreased drag and decreased lift. airfoils . spoilers control surfaces . spoilers drag devices . spoilers aerodynamic brakes boundary layer control deflectors flaps (control surfaces) gust alleviators leading edge slats spoiler slot ailerons vortex alleviation wings  hubs wheels	spores DEF forms of GS RT  sports GS RT  SPOT ( DEF lution f launchederived	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies
splicing RT splicing RT spline f GS RT splines RT splints RT	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia  fasteners joining tapes wiring  unctions functions (mathematics) . spline functions approximation matrix methods  couplings fasteners holders  bones casts first aid  ps airfoils . split flaps brakes (for arresting motion) . aerodynamic brakes	spoiler DEF bars, o stream smooth that pro giving i GS	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons spoiler slot ailerons spoilers  S Plates, series of plates, combs, tubes, rother devices that project into the airabout bodies to break up or spoil the ness of the flow, especially such devices ontrol surfaces . spoilers control surfaces . spoilers aerodynamic brakes boundary layer control deflectors flaps (control surfaces) gust alleviators leading edge slats spoiler slot ailerons vortex alleviation wings  hubs wheels  ses (materials)	spores DEF forms of GS RT  sports GS RT  SPOT ( DEF lution of launchederived vation of	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies
splicing RT splicing RT spline f GS RT splines RT splints RT	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia  fasteners joining tapes wiring  unctions functions (mathematics) . spline functions approximation matrix methods  couplings fasteners holders  bones casts first aid  ps airfoils . flaps (control surfaces) . split flaps brakes (for arresting motion) . aerodynamic brakes . split flaps	RT  spoiler  DEF bars, o o stream smooth that pro giving i GS  RT  spokes RT  sponge SN RT	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons spoiler slot ailerons spoilers  Plates, series of plates, combs, tubes, r other devices that project into the air- about bodies to break up or spoil the ness of the flow, especially such devices oject from the upper surface of an airfoil, noreased drag and decreased lift. airfoils . spoilers control surfaces . spoilers drag devices . spoilers aerodynamic brakes boundary layer control deflectors flaps (control surfaces) gust alleviators leading edge slats spoiler slot ailerons vortex alleviation wings  hubs wheels  ses (materials) (ORGANIC OPEN-CELL STRUCTURES) elastomers	spores DEF forms of GS RT  sports GS RT  SPOT ( DEF lution of launchederived vation of	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies
splicing RT splicing RT spline f GS RT splines RT splints RT	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia  fasteners joining tapes wiring  unctions functions functions (mathematics) . spline functions approximation matrix methods  couplings fasteners holders  bones casts first aid  ps airfoils . flaps (control surfaces) . split flaps brakes (for arresting motion) . aerodynamic brakes . split flaps . aircraft brakes	RT  spoiler  DEF bars, o o stream smooth that pro giving i GS  RT  spokes RT  sponge SN RT	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons spoiler slot ailerons spoilers  Plates, series of plates, combs, tubes, rother devices that project into the air- about bodies to break up or spoil the ness of the flow, especially such devices bject from the upper surface of an airfoil, ncreased drag and decreased lift. airfoils . spoilers control surfaces . spoilers drag devices . spoilers aerodynamic brakes boundary layer control deflectors flaps (control surfaces) gust alleviators leading edge slats spoiler slot ailerons vortex alleviation wings  hubs wheels ses (materials) (ORGANIC OPEN-CELL STRUCTURES) elastomers materials	spores DEF forms of GS RT  sports GS RT  SPOT ( DEF lution f launched derived vation of GS	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids sporadic meteoroids meteor trails meteoroid concentration  The reproductive elements of the lower of living organisms, usually unicellular. spores . microspores biological weapons fungi microorganisms plants (botany) protozoa tetrad theory  medicine medical science . sports medicine aerospace medicine aerospace medicine athletes clinical medicine exercise physiology physical fitness physiological effects  (French satellite) French satellite with high visible resoror observations of the Earth. It was add in February 1986. The acronym is from the French, Satellite Pour Obserde le Terre. artificial satellites SPOT (French satellite)
splicing RT splicing RT spline f GS RT splines RT splints RT	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia  fasteners joining tapes wiring  unctions functions (mathematics) . spline functions approximation matrix methods  couplings fasteners holders  bones casts first aid  ps airfoils . split flaps brakes (for arresting motion) . aerodynamic brakes . split flaps aircraft brakes . split flaps . split flaps	RT  spoiler  DEF bars, o o stream smooth that pro giving i GS  RT  spokes RT  sponge SN RT	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons spoiler slot ailerons spoilers  S Plates, series of plates, combs, tubes, rother devices that project into the airabout bodies to break up or spoil the ness of the flow, especially such devices ontrol surfaces . spoilers control surfaces . spoilers aerodynamic brakes boundary layer control deflectors flaps (control surfaces) gust alleviators leading edge slats spoiler slot ailerons vortex alleviation wings  hubs wheels  (ORGANIC OPEN-CELL STRUCTURES) elastomers materials polyurethane foam	spores DEF forms of GS RT  sports GS RT  SPOT ( DEF lution of launchederived vation of	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids sporadic meteoroids meteor trails meteoroid concentration  The reproductive elements of the lower of living organisms, usually unicellular. spores . microspores biological weapons fungi microorganisms plants (botany) protozoa tetrad theory  medicine medical science . sports medicine aerospace medicine aerospace medicine athletes clinical medicine exercise physiology physical fitness physiological effects  (French satellite) French satellite Pour Obserde le Terre. artificial satellites . SPOT (French satellite) crop identification
splicing RT splicing RT spline f GS RT splines RT splints RT	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia  fasteners joining tapes wiring  unctions functions functions (mathematics) . spline functions approximation matrix methods  couplings fasteners holders  bones casts first aid  ps airfoils . flaps (control surfaces) . split flaps brakes (for arresting motion) . aerodynamic brakes . split flaps . aircraft brakes	RT  spoiler  DEF bars, o o stream smooth that pro giving i GS  RT  spokes RT  sponge SN RT	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons spoiler slot ailerons spoilers  Plates, series of plates, combs, tubes, rother devices that project into the air- about bodies to break up or spoil the ness of the flow, especially such devices bject from the upper surface of an airfoil, ncreased drag and decreased lift. airfoils . spoilers control surfaces . spoilers drag devices . spoilers aerodynamic brakes boundary layer control deflectors flaps (control surfaces) gust alleviators leading edge slats spoiler slot ailerons vortex alleviation wings  hubs wheels ses (materials) (ORGANIC OPEN-CELL STRUCTURES) elastomers materials	spores DEF forms of GS RT  sports GS RT  SPOT ( DEF lution f launched derived vation of GS	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids sporadic meteoroids meteor trails meteoroid concentration  The reproductive elements of the lower of living organisms, usually unicellular. spores . microspores biological weapons fungi microorganisms plants (botany) protozoa tetrad theory  medicine medical science . sports medicine aerospace medicine aerospace medicine athletes clinical medicine exercise physiology physical fitness physiological effects  (French satellite) French satellite with high visible resoror observations of the Earth. It was add in February 1986. The acronym is from the French, Satellite Pour Obserde le Terre. artificial satellites SPOT (French satellite)
splicing RT splicing RT spline f GS RT splines RT splints RT	ullage water landing  anatomy . immune systems lymphatic system spleen polycythemia  fasteners joining tapes wiring  unctions functions (mathematics) . spline functions approximation matrix methods  couplings fasteners holders  bones casts first aid  ps airfoils . split flaps brakes (for arresting motion) . aerodynamic brakes . split flaps . split flaps . aircraft brakes . split flaps control surfaces	spoiler DEF bars, o stream smooth that pro giving i GS  RT  spokes RT  sponge SN RT	airfoils . ailerons spoiler slot ailerons control surfaces . ailerons spoiler slot ailerons spoilers  S Plates, series of plates, combs, tubes, rother devices that project into the airabout bodies to break up or spoil the ness of the flow, especially such devices ontrol surfaces . spoilers control surfaces . spoilers aerodynamic brakes boundary layer control deflectors flaps (control surfaces) gust alleviators leading edge slats spoiler slot ailerons vortex alleviation wings  hubs wheels  (ORGANIC OPEN-CELL STRUCTURES) elastomers materials polyurethane foam	spores DEF forms of GS RT  sports GS RT  SPOT ( DEF lution f launched derived vation of GS	(METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies . meteoroids sporadic meteoroids meteor trails meteoroid concentration  The reproductive elements of the lower of living organisms, usually unicellular. spores . microspores biological weapons fungi microorganisms plants (botany) protozoa tetrad theory  medicine medicine aerospace medicine athletes clinical medicine exercise physiology physical fitness physiological effects  (French satellite) French satellite Pour Obserde le Terre. artificial satellites SPOT (French satellite) crop identification Earth observations (from space)

	soil mapping	. metal spraying	GS	computer programs
	stereophotography	. plasma spraying		. applications programs (computers)
spot we	alde	RT aeration aerosols	RT	spreadsheets
	joints (junctions)	atomizing	K I	computer techniques tables (data)
ao	. metal joints	blowing		tables (data)
	welded joints	coating	spring (	(season)
	spot welds	coatings		The season of the year between winter
RT	arc welding	diffusion	and sum	nmer. Its beginning is the vernal equinox
	beads	dispersing	and its e	end the summer solstice.
	electric welding	entrainment	GS	seasons
	fusion welding	forming techniques		. spring (season)
	pressure welding	fumigation	RT	autumn
	ultrasonic welding	liquid atomization		summer
cnrav o	haracteristics	metallizing		winter
	characteristics	mixing	enringe	(elastic)
111 -	sprayers	premixing sealing		o coils
	spraying	spray characteristics		energy storage
	-, -, 3	sprayers		frames
spray c	ondensers	sprinkling		oscillation dampers
RT	jet condensers	vaporizing		oscillations
	sprayers	wetting		resilience
		-		shock absorbers
	ngestion	spraying apparatus		suspension systems (vehicles)
RT	gas turbines	USE sprayers		vibration isolators
	landing gear			( -1.)
	salt spray tests	sprays	springs	•
spray n	ozzles	USE sprayers		Places where ground water flows natu-
RT	annular nozzles	spread F		m rocks onto the land surface or into a surface water. Their occurrence de-
111	conical nozzles	RT F 2 region	•	on the nature and relationship of rocks,
	fuel injection	ionospheric storms		lly permeable and impermeable strata,
	fuel systems	magnetic storms		position of the water table, and on the
	injectors	magnotio donno	topograp	
~	nozzles	spread reflection		resources
	orifices	DEF Reflection of electromagnetic radiation		. Earth resources
	sprayers	from a rough surface with large irregularities.		springs (water)
		Also known as mixed reflection.		water
	I coatings	GS reflection		. springs (water)
UF	sprayed protective coatings	. spread reflection	RT	aquifers
GS	coatings	RT glare		fresh water
БТ	sprayed coatings	infrared reflection		ground water
RT	ceramic coatings	optical reflection		inland waters
	finishes	scattering		lakes
	HVOF thermal spraying	signal reflection		oases
	lacquers metal coatings	ultraviolet reflection		potable water
	paints	wave reflection		water tables
	plasma spraying	spread spectrum transmission		wells
	plastic coatings	DEF Communications technique with many	sprinkli	ng
	primers (coatings)	different signal waveforms transmitted in a wide	RT	scattering
	protective coatings	band; power is spread thinly over the band so		spraying
	varnishes	that narrow-band radios can operate within the		wetting
		band without interference.		9
sprayed	protective coatings	GS transmission	Sprint n	nissile
USE	protective coatings	. electromagnetic wave transmission	GS	missiles
	sprayed coatings	radio transmission		. antimissile missiles
		spread spectrum transmission		Sprint missile
sprayer		. signal transmission		. surface to air missiles
UF	spraying apparatus	radio transmission		Sprint missile
-	sprays	spread spectrum transmission	RT	Nike-Zeus missile
RT	atomizers	RT communication		Sentinel system
	blowers	frequency hopping		solid propellant rocket engines
	colloidal generators	anua din a		Spartan missile
	contactors containers	spreading RT adhesion	CDDITE	detectors
	diffusers	cohesion		ed January 2000)
~	dispensers	diffusion		infrared detectors
	distributors	dispersing	OOL	illiarea acteolors
	drops (liquids)	disposal	sprites	(atmospheric physics)
	ejectors	dumping		ed January 2000)
	fuel sprays	emptying		Short-lived luminosities observed at
~	ejets	interfacial tension		tudes above thunderstorms, apparently
	materials handling	internal pressure	associat	ted with upward discharges of thunder-
	mixers	materials handling	storm el	lectricity. They appear as columnar dif-
~	nozzles	scattering		ldish glows between 30 km and 80 km
	propellant sprays	∞ separation		round, lasting tens of milliseconds, fol-
	spray characteristics	spilling		arge positive cloud-to-ground lightning
	spray condensers	swelling	strokes.	
	spray nozzles	throwing		red sprites
	spraying	unloading	GS	atmospheric radiation
	vaporizers			. sky radiation
	_	spreadsheets		sprites (atmospheric physics)
sprayin		(added March 2001)		electromagnetic radiation
GS	spraying . arc spraying	DEF Software applications that present a display of multiple columns and rows, and allow		. light (visible radiation) sky radiation
	. crop dusting	a user to input and manipulate numerical data		sprites (atmospheric physics)
	. flame spraying	for planning, tracking, analysis, and financial	RT	atmospheric electricity
	HVOF thermal spraying	calculations.		atmospheric ionization
		0.00.00.00.00		oop.ioiio ioinzation

cloud-to-ground discharges . magnetron sputtering RT boundary lubrication arc welding elastohydrodynamics lightning bombardment thunderstorms deposition gas bearings duoplasmatrons gas lubricants SPUR (reactors) electron bombardment liquid-solid interfaces USE space power unit reactors emission lubricants ion plating SPURT (trajectories) ion sources vapor phase lubrication USE spinning unguided rocket metal particles viscoelasticity trajectory plasma etching viscous fluids surface finishing Sputnik 1 satellite thermal instability squeezed states (quantum theory) GS artificial satellites DEF Single mode minimum uncertainty . meteorological satellites sputtering gages states for which the fluctuations in one quadra-GS measuring instruments ture phase of the field are smaller than would sputtering gages . Soviet satellites occur for a coherent state. Used for two photon . . Sputnik satellites metal films coherent states. . Sputnik 1 satellite thin films two photon coherent states Soviet spacecraft coherent electromagnetic radiation . Sputnik satellites squalls coherent light . . Sputnik 1 satellite GS wind (meteorology) electromagnetic fields squalls fluctuation theory Sputnik 2 satellite RT ground wind light transmission GS artificial satellites storms (meteorology) ∞ optics . biosatellites photon density . . Sputnik 2 satellite squama quantum mechanics . meteorological satellites DFF A scale or structure resembling a quantum theory Sputnik 2 satellite scale. . Soviet satellites RT fishes . . Sputnik satellites squeezing . Sputnik 2 satellite USE compressing square waves Soviet spacecraft Oscillations, the amplitudes of which show periodic discontinuities between two val-. Sputnik satellites squelch circuits ... Sputnik 2 satellite ues, remaining constant between jumps. Specircuits cifically, in radar pulses initiated by a rapid rise to squelch circuits Sputnik 3 satellite peak power, maintained at a constant peak background noise GS artificial satellites power over the finite pulse length, and termielectromagnetic noise . geophysical satellites nated by rapid decrease from peak power. noise reduction . . Sputnik 3 satellite waveforms GS silencers . meteorological satellites square waves suppressors Sputnik 3 satellite RT form factors switching circuits Soviet satellites pulse amplitude . . Sputnik satellites pulse duration squibs Sputnik 3 satellite sawtooth waveforms Various small explosive devices. Ex-Soviet spacecraft time functions plosive devices used in the ignition of a rocket. . Sputnik satellites wave functions Used for XM-6 squib and XM-8 squib. . . Sputnik 3 satellite wave propagation XM-6 squib UF ∞ waves XM-8 squib Sputnik 4 satellite GS igniters GS artificial satellites square wells squibs . Soviet satellites DEF The impurity potential areas which bound an electron or hole in semiconducting electric ignition . . Sputnik satellites ignition systems . Sputnik 4 satellite crystals such as silicon. primers (explosives) Soviet spacecraft RT electron mobility solid propellant ignition Sputnik satellites magnetic fields starters ... Sputnik 4 satellite photoconductivity vacancies (crystal defects) squid (detectors) Sputnik 5 satellite wells DEF Superconducting quantum interference device magnetometers. Used for superconducting quantum interferometers. GS artificial satellites . Soviet satellites squares (mathematics) . . Sputnik satellites GS geometry superconducting quantum Euclidean geometry . Sputnik 5 satellite interferometers Soviet spacecraft . . polygons superconducting devices . squid (detectors) GS Sputnik satellites . . . tetragons .... squares (mathematics) Sputnik 5 satellite RT Venus probes RT ∞ detectors squeeze casting Josephson junctions Sputnik satellites (added September 1993) magnetic measurement GS artificial satellites The technique of working liquid metals quantum counters . Soviet satellites under pressure into near net shapes; it includes SIS (superconductors) . . Sputnik satellites the technique of forging metal compounds. superconductors (materials) ... Sputnik 1 satellite GS forming techniques Sputnik 2 satellite . casting SQUID project Sputnik 3 satellite . squeeze casting GS programs ... Sputnik 4 satellite cast alloys . projects . Sputnik 5 satellite compressing SQUID project Soviet spacecraft extruding RT jet propulsion . Sputnik satellites fabrication . . Sputnik 1 satellite forging squirrels Sputnik 2 satellite liquid metals GS animals . . Sputnik 3 satellite metal matrix composites . vertebrates Sputnik 4 satellite metal working . . mammals . . Sputnik 5 satellite ... rodents squeeze films . . . . squirrels sputtering
DEF Dislocation of surface atoms of a ma-DEF Thin viscoelastic fluid films squeezed . . . . . ground squirrels between two usually planar structures to serve terial from bombardment of high energy atomic as sealants, load dampers, lubricants, etc.

GS

particles.

GS sputtering

fluid films

saueeze films

SR (reactors)

USE saturable reactors

SR-71 aircraft	. St Lawrence Valley (North	stabilizers (agents)
(added March 1990)	America)	steady state
UF Blackbird aircraft	valleys	tolerances (mechanics)
GS Lockheed aircraft	. St Lawrence Valley (North	Tresca flow
. SR-71 aircraft reconnaissance aircraft	<b>America)</b> RT Canada	unity unsteady state
. SR-71 aircraft	Maine	variability
supersonic aircraft	New Hampshire	vlasov equations
SR-71 aircraft	New York	vulnerability
RT ∞ aircraft	Vermont	1.1.191
blended-wing-body configurations	St Louis Kanaga City Corridor (MO)	stability augmentation  DEF Maintenance of aircraft stability in flight
∞ military aircraft	St Louis-Kansas City Corridor (MO) GS corridors	by means of automatic control devices which
SRB (Solid Rocket Boosters)	. St Louis-Kansas City Corridor	supplement a pilot's manipulation of the aircraft
USE Space Shuttle Boosters	(MO)	controls. The automatic controls are used to
CDD project	RT Missouri `	modify inherent aircraft handling problems.
SRB project (added October 2007)	regional planning	GS augmentation
USE Surface Radiation Budget project	Ct Vanant flavora problem	stability augmentation
OOL Outlace Hadiation Budget project	St Venant flexure problem USE Saint Venant principle	RT aerodynamic stability
SRE reactor	USE Saint Venant principle	aircraft control
USE sodium reactor experiment	stability	attitude (inclination) automatic control
SRET 1 satellite	DEF The property of a body, as an aircraft	control stability
GS artificial satellites	or rocket, to maintain its attitude or to resist	directional stability
. French satellites	displacement, and, if displaced to develop	feedback control
SRET satellites	forces and moments tending to restore the origi-	flight control
SRET 1 satellite	nal condition. Of a fuel, the capability of a fuel to	lateral oscillation
. meteorological satellites	retain its characteristics in an adverse environ-	pitch (inclination)
SRET satellites	ment, e.g. extreme temperature. Used for instability.	akalaitika alautuskina
SRET 1 satellite	UF <i>instability</i>	stability derivatives
RT French space program	GS stability	UF <i>aerodynamic moments</i> GS moments
SRET 2 satellite	. acoustic instability	. stability derivatives
GS artificial satellites	. baroclinic instability	pitching moments
. French satellites	. dynamic stability	rolling moments
SRET satellites	combustion stability	yawing moments
SRET 2 satellite	flame stability	RT complex variables
. meteorological satellites	control stability	damping
SRET satellites	frequency stability	differential equations
SRET 2 satellite	motion stability	moments of inertia
SRET satellites	aerodynamic stability	real variables
GS artificial satellites	aircraft stability	vector analysis
. French satellites	hovering stability attitude stability	stability tests
. SRET satellites	directional stability	GS stability tests
SRET 1 satellite	gyroscopic stability	. flight stability tests
SRET 2 satellite	lateral stability	. wind tunnel stability tests
. meteorological satellites	longitudinal stability	RT corrosion tests
SRET satellites	flow stability	damping tests
SRET 1 satellite	boundary layer stability	electronic equipment tests
SRET 2 satellite	flame stability	flight tests
RT French space program	magnetohydrodynamic stability	fuel tests
Sri Lanka	Weibel instability	ground tests missile tests
UF Ceylon	Goertler instability Taylor instability	propellant tests
GS nations	low speed stability	resonance testing
. Sri Lanka	rotary stability	∞ tests
RT Asia	gyroscopic stability	vibration tests
SR-N2 ground effect machine	spacecraft stability	
USE Westland ground effect machines	gravitational instability	stabilization
<b>G</b>	. interface stability	UF missile stabilization
SR-N3 ground effect machine	. laser stability	GS stabilization
USE Westland ground effect machines	. magnetospheric instability	. signal stabilization . spin stabilization
SR-N5 ground effect machine	. numerical stability . phase stability (materials)	. three axis stabilization
USE Westland ground effect machines	. static stability	RT acid base equilibrium
<b>G</b>	dimensional stability	balancing
SS-11 missile	structural stability	consolidation
GS missiles	shell stability	∞ control
. SS-11 missile	. storage stability	∞ equilibrium
RT multistage rocket vehicles solid propellant rocket engines	. surface stability	heat treatment
solid propellant rocket engines	. systems stability	horizontal orientation
SSE project	. thermal stability	laser gyroscopes
(added October 2007)	RT amplification	phase stability (materials) stabilizers (agents)
USE Surface Meteorology and Solar	ballast (mass) chemical compatibility	stress relieving
Energy project	compatibility	vertical orientation
SSGS (standardized space guidance)	controllability	
USE standardized space guidance	∞ drift	stabilized platforms
	drift rate	RT gimbals
SSTI	durability	gyroscopic stability
USE small satellite technology	dynamic characteristics	gyrostabilizers
SSUS-A	equations of motion	inertial guidance
USE Space Shuttle upper stage A	∞ equilibrium	∞ platforms three axis stabilization
OOL Opade dilatile appel stage A	metastable state	unee axis stabilization
SSUS-D	quality	∞ stabilizers
USE Space Shuttle upper stage D	reliability ∞ resistance	SN (USE OF A MORE SPECIFIC TERM IS
St Lawrence Valley (North America)	∞ resistance safety factors	RECOMMENDEDCONSULT THE TERMS
GS landforms	spacecraft motion	LISTED BELOW) RT gyroscopes
	- p	37 · · · · · · · · ·

sea keeping topography sextants stabilizers (agents) stabilizers (fluid dynamics) stage separation stairways staging (rockets) UF staircases booster rocket engines RT buildings stabilizers (agents) expendable stages (spacecraft) escalators RT additives interim stages (spacecraft) ladders  $\infty$  agents anticoagulants Lunar Module Ascent Stage treads antioxidants missiles multistage rocket vehicles ∞ stalling neutralizers propellant mass ratio (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS SN preservatives rocket vehicles retardants LISTED BELOW) stability separation aerodynamic stalling Space Shuttle Ascent Stage stabilization boundary layer separation sustainer rocket engines stabilizers engine failure thrust termination rotating stalls upper stage rocket engines stabilizers (fluid dynamics) stamping horizontal stabilizers staggering (EXCLUDES IDENTIFICATION MARKING) vertical stabilizers RT ∞ configurations vertical tails forming techniques disorientation stabilizers (fluid dynamics) . pressing (forming) GS . stamping . horizontal tail surfaces staging (rockets) RT ∞ blanking RT aerial rudders USE stage separation blanking (cutting) airfoils coining control surfaces stagnation flow cold working  $\infty \, \text{dynamics}$ GS fluid flow dies elevators (control surfaces) . inviscid flow dimpling fins . stagnation flow forging keels boundary layer flow hot isostatic pressing rudders boundary layer separation hot pressing ∞ stabilizers compressible flow metal working sweptback tail surfaces stagnation point punches T tail surfaces . shearing tabs (control surfaces) stagnation point swaging tail assemblies DEF Point in a field of flow about a body upsetting tail surfaces where the fluid particles have zero velocity with trapezoidal tail surfaces respect to the body. Used for stagnation region. standard atmospheres stagnation region USE reference atmospheres stable oscillations blunt bodies oscillations GS boundary layer flow standard deviation stable oscillations flow distribution DEF A measure of the agreement between dynamic stability fluid dynamics test results. frequency pulling heat transfer GS moments frequency stability stagnation flow . distribution moments gyroscopic stability . . standard deviation motion stability stagnation pressure statistical analysis nonstabilized oscillation ĞS pressure . standard deviation pilot induced oscillation stagnation pressure confidence limits resonant vibration compressible flow estimating transverse oscillation inlet pressure heterogeneity undamped oscillations quality control wing oscillations stagnation region range (extremes) USE stagnation point variability stacking fault energy variance (statistics) stagnation temperature RT crystal defects GS temperature ∞ energy standard electroweak model stagnation temperature twinning USE electroweak model adiabatic flow compressible flow stacking faults standard launch vehicle 3 inviscid flow Atlas SLV-3 launch vehicle USE crystal defects USE staining Standard Launch Vehicle 5 stacking sequence (composite materials) RT chemical tests GS launch vehicles (added June 1997) discoloration . Standard Launch Vehicles composite materials marking . . Standard Launch Vehicle 5 fiber composites methylene rocket vehicles fiber orientation methylene blue . Standard Launch Vehicles laminates . . Standard Launch Vehicle 5 lav-up stainless steels ply orientation GS alloys Standard Launch Vehicles . iron alloys SLV stacks . . steels launch vehicles RT chimneys ... stainless steels . Standard Launch Vehicles crystal defects . . . . austenitic stainless steels Atlas SLV-3 launch vehicle materials handling . . . . ferritic stainless steels . . Standard Launch Vehicle 5 ... martensitic stainless steels rocket vehicles STADAN (satellite tracking network) chromium alloys . Standard Launch Vehicles USE STDN (network) maraging steels . . Atlas SLV-3 launch vehicle molybdenum alloys . Standard Launch Vehicle 5 RT Atlas D ICBM stadimeters nickel alloys DEF Instruments for determining the disnickel steels ∞ vehicles tance to an object of known dimension by measuring the angle subtended at the observer by staircases standard model (particle physics) the object. The instrument is graduated directly USE stairways (added April 1994) GS field theory (physics)

stairsteps

backward facing steps

formations

∞ steps

in distance.

GS

measuring instruments

. stadimeters

RT range finders

. distance measuring equipment

. gauge theory

. . unified field theory

... standard model (particle

physics)

models istence of nodes or partial nodes and antinodes star formation standard model (particle physics) that are fixed in space. stellar systems RT antinodes Virgo galactic cluster bosons CP violation beat frequencies electroweak interactions (field theory) frequencies star fields electroweak model harmonics . USE star distribution elementary particles nodes (standing waves) particle theory ∞ radiation star formation The collapse under gravity of molecuquantum chromodynamics resonant frequencies quantum theory vibration lar clouds of interstellar matter to form clusters of protostars, and the continuing collapse of the quark models wavelengths strong interactions (field theory) protostars to form main-sequence stars. ∞ waves weak interactions (field theory) GS evolution (development) . stellar evolution stands standardization USE supports . star formation DEF The act or process of reducing some-RT astrophysics thing to, or comparing it with, a standard. A stannates cooling flows (astrophysics) measure of uniformity. A special case of calibra-GS tin compounds cosmology tion whereby a known input is applied to a early stars . stannates device or system for the purpose of verifying the hydrogen clouds RT ∞ oxygen compounds output of adjusting the output to a desired level interstellar gas interstellar matter or scale factor. stannides standardization tin compounds molecular clouds GS stannides . commonality nebulae calibrating . niobium stannides nuclear fusion intercalibration tin allovs pre-main sequence stars metrication protogalaxies naming numerical control Stanton number protostars dimensionless numbers GS solar nebula product development Stanton number star distribution production engineering star formation rate quality control specifications Stanton number starburst galaxies forced convection stars standards heat transfer stellar mass accretion variability Submillimeter Wave Astronomy STAP (radar) Satellite standardized space guidance
UF SSGS (standardized space guidance) (added November 2002) T Tauri stars space-time adaptive processing guidance (motion)
. standardized space guidance GS star formation rate staphylococcus The rate at which stars are formed RT microorganisms within a specified region or galaxy; sometimes space navigation . bacteria expressed as the number of solar masses per . staphylococcus standards year. DEF References used as a basis for comparison or calibration. Concepts that have been RT pleurotin GS rates (per time) star formation rate established by authority, custom, or agreement to serve as models or rules in the measurement star catalogs RT galactic evolution USE astronomical catalogs galaxies of quantity of the establishment of a practice or a procedure. Used for references (standards). star formation star clusters starburst galaxies DFF Groups of stars physically close toreferences (standards) stellar evolution gether. GS standards GS celestial bodies star trackers . frequency standards . star clusters . reference atmospheres DEF Telescopic instruments on rockets or . . globular clusters other flight borne vehicles that lock onto a RT acceptability . . open clusters celestial body and give guidance reference to the vehicles during flight. Used for star tracking. accuracy ... Pleiades cluster calibrating ... Praesepe star clusters barred galaxies binary stars ∞ codes UF star tracking tracking (position) conventions GS criteria . star trackers document markup languages ∞ clusters . CCD star tracker color-magnitude diagram disk galaxies inspection Astroguide Navigation System interoperability astrolabes elliptical galaxies ∞ measurement attitude control galactic clusters celestial navigation ∞ measures galaxies metrology charge injection devices ∞ performance irregular galaxies flight instruments performance tests Magellanic clouds guidance sensors metallicity inertial navigation quality control solar neighborhood laser guide stars reliability missile control sampling stellar systems specifications navigation Virgo galactic cluster standardization navigation aids temperature scales navigation instruments star distribution tolerances (mechanics) solar sensors UF star fields validity spacecraft guidance stellar fields value engineering distribution (property) star tracking . spatial distribution USE star trackers standing wave ratios . . vertical distribution ratios GS standing wave ratios . . star distribution starburst galaxies angular distribution GS celestial bodies amplitudes electrical properties astrolabes . galaxies Smith chart barred galaxies starburst galaxies cosmology galactic clusters transmission lines galactic nuclei star formation standing waves

DEF Periodic waves having fixed distribution in space which are the result of interference galactic evolution star formation rate galactic halos globular clusters starches

mass distribution

radial distribution

GS biopolymers

. polysaccharides

of progressive waves of the same frequency and

kind. Such waves are characterized by the ex-

	starches	pulsars	variable stars
	organic compounds	stars	cataclysmic variables
	. carbohydrates	stellar activity	cepheid variables
	polysaccharides	stellar physics	flare stars
	starches	stellar rotation	irregular variable stars
RT	chitin	stellar structure	R Coronae Borealis stars
000	food		Lambda Tauri stars Mira variables
	sizing materials	stars	Omicron Ceti star
Stardus	t Mission	DEF Self-luminous celestial bodies exclu-	novae
	ed March 1999)	sive of nebulas, comets, and meteors; suns	dwarf novae
	First U.S. mission launched to roboti-	seen in the heavens. Distinguished from planets	Hercules nova
cally obt	ain samples in deep space and return	or natural satellites that shine by reflected light.	semiregular variable stars
them to	Earth. The NASA Discovery-class mis-	GS celestial bodies	supernovae
	return dust samples collected from the	. stars	supernova 1987A
	oud surrounding the nucleus of Comet	black holes (astronomy) brown dwarf stars	symbiotic stars
	Interstellar dust will also be collected.	double stars	T Tauri stars
	sion spacecraft takes advantage of an	binary stars	white holes (astronomy)
	ravity-assist maneuver to reach the and uses an aerogel-based dust collec-	cataclysmic variables	x ray stars
tor.	and uses an aeroger-based dust collec-	companion stars	soft gamma repeaters x ray binaries
GS	space missions	Nemesis (star)	Population I stars
	. flyby missions	eclipsing binary stars	Population II stars
	Stardust Mission	dwarf novae	Population III stars
	. sample return missions	Lambda Tauri stars	RT Aries constellation
	Stardust Mission	Zeta Aurigae star	astrolabes
RT	comet nuclei	Sigma Orionis	barred galaxies
	interstellar matter	symbiotic stars	Cassiopeia constellation
	Wild 2 comet	x ray binaries early stars	celestial mechanics
0, 5,		hot stars	Centaurus constellation
	er aircraft F-104 aircraft	A stars	constellations
USE	r-104 alliciali	B stars	Corona Borealis constellation
Stark ef	fect	shell stars	Cygnus constellation faint objects
	The broadening or splitting of a spec-	Sigma Orionis	galaxies
	observed when a luminous gas is acted	blue stars	irregular galaxies
	a strong electric field.	O stars	Lyra constellation
RT∝	effects	white dwarf stars	Magellanic clouds
	electric fields	Wolf-Rayet stars	metallicity
	electro-optics	F stars	Milky Way Galaxy
	hydrogen plasma	G stars	quasars
	line spectra	sun giant stars	solar neighborhood
	resolution	asymptotic giant branch stars	star clusters
	spectrum analysis		star formation
	Zooman offoct	Omicron Ceti star	
	Zeeman effect	Omicron Ceti star red giant stars	starquakes
Starlah	Zeeman effect	red giant stars	starquakes starspots
Starlab DEF			starquakes starspots stellar activity
DEF	A proposed satellite ultraviolet tele-	red giant stars carbon stars	starquakes starspots stellar activity stellar composition
DEF scope t		red giant stars carbon stars horizontal branch stars	starquakes starspots stellar activity stellar composition stellar cores
DEF scope to United S	A proposed satellite ultraviolet tele- hat was a joint project between the	red giant stars carbon stars horizontal branch stars infrared stars late stars cool stars	starquakes starspots stellar activity stellar composition
DEF scope to United Strently in Optical	A proposed satellite ultraviolet tele- hat was a joint project between the states, Canada, and Australia. It is cur- n abeyance. Used for Spacelab UV- relescope Facility.	red giant stars carbon starshorizontal branch starsinfrared starslate starscool stars cool stars	starquakes starspots stellar activity stellar composition stellar cores stellar gravitation
DEF scope to United Strently in	A proposed satellite ultraviolet tele- nat was a joint project between the States, Canada, and Australia. It is cur- nabeyance. Used for Spacelab UV- Telescope Facility. Spacelab UV-Optical Telescope	red giant stars carbon stars horizontal branch stars infrared stars late stars cool stars carbon stars flare stars	starquakes starspots stellar activity stellar composition stellar cores stellar gravitation stellar interiors
DEF scope to United Strently in Optical T	A proposed satellite ultraviolet tele- nat was a joint project between the States, Canada, and Australia. It is cur- nabeyance. Used for Spacelab UV- Telescope Facility. Spacelab UV-Optical Telescope Facility	red giant stars carbon stars horizontal branch stars infrared stars late stars cool stars carbon stars flare stars flare stars K stars	starquakes starspots stellar activity stellar composition stellar cores stellar gravitation stellar interiors stellar magnitude
DEF scope to United Strently in Optical	A proposed satellite ultraviolet tele- nat was a joint project between the states, Canada, and Australia. It is cur- nabeyance. Used for Spacelab UV- Felescope Facility.  Spacelab UV-Optical Telescope Facility telescopes	red giant stars carbon stars horizontal branch stars infrared stars late stars cool stars carbon stars flare stars K stars K stars M stars	starquakes starspots stellar activity stellar composition stellar cores stellar gravitation stellar interiors stellar magnitude stellar oscillations Virgo galactic cluster
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DEF scope to the s	A proposed satellite ultraviolet telenat was a joint project between the states, Canada, and Australia. It is curabeyance. Used for Spacelab UV-Felescope Facility.  Spacelab UV-Optical Telescope Facility telescopes . Starlab . ultraviolet telescopes . Starlab . ultraviolet telescopes . Starlab . optics Space Shuttle payloads Spacelab  raircraft C-141 aircraft  be mission programs . NASA programs . NASA space programs . NASA space programs . NASA space programs . NASA space programs . Starprobe mission space mission space mission Starprobe spacecraft be spacecraft unmanned spacecraft . space probes . solar probes	red giant stars carbon stars . horizontal branch stars . infrared stars . late stars cool stars carbon stars flare stars flare stars M stars M stars Mira variables Omicron Ceti star S stars magnetic stars magnetic stars magnetars main sequence stars dwarf stars dwarf stars red dwarf stars red dwarf stars sun massive stars metallic stars metallic stars magnetars sun massive stars sun metallic stars sun metallic stars sun symbiotic stars soft gamma repeaters peculiar stars sigma Orionis symbiotic stars Praesepe star clusters pre-main sequence stars T Tauri stars radio stars	starquakes starspots stellar activity stellar composition stellar cores stellar gravitation stellar interiors stellar magnitude stellar oscillations Virgo galactic cluster  stars (mathematics) RT ∞ mathematics  Starsat telescope DEF An anastigmatic 3-mirror reflecting telescope for ultraviolet astronomy purposes aboard the Starsat satellite. GS telescopes . reflecting telescopes . Starsat telescope spaceborne telescopes . Starsat telescope RT coronagraphs spaceborne astronomy spectroheliographs ultraviolet astronomy  Starsite program GS programs . Starsite program RT architecture buildings communities conferences construction decision making ∞ development
DEF scope to the s	A proposed satellite ultraviolet telenat was a joint project between the states, Canada, and Australia. It is curabeyance. Used for Spacelab UV-Felescope Facility.  Spacelab UV-Optical Telescope Facility  telescopes . spaceborne telescopes . Starlab . ultraviolet telescopes . Starlab optics Space Shuttle payloads Spacelab  raircraft C-141 aircraft be mission programs . NASA programs . NASA space programs . Starprobe mission . space mission space missions space mission Starprobe mission Starprobe spacecraft  be spacecraft unmanned spacecraft . space probes . Starprobe mission Starprobe spacecraft Starprobe mission	red giant stars carbon stars . horizontal branch stars . infrared stars . late stars cool stars carbon stars flare stars K stars M stars Wan Biesbroeck star Mira variables Omicron Ceti star S stars magnetic stars magnetars main sequence stars dwarf novae flare stars red dwarf stars sun massive stars metallic stars metallic stars magnetars pulsars peculiar stars peculiar stars soft gamma repeaters peculiar stars sigma Orionis symbiotic stars praesepe star clusters protostars pre-main sequence stars T Tauri stars radio stars pulsars pulsars pre-main sequence stars T Tauri stars radio stars pulsars reference stars reference stars	starquakes starspots stellar activity stellar composition stellar cores stellar gravitation stellar interiors stellar magnitude stellar oscillations Virgo galactic cluster  stars (mathematics) RT ∞ mathematics  Starsat telescope DEF An anastigmatic 3-mirror reflecting telescope for ultraviolet astronomy purposes aboard the Starsat satellite. GS telescopes . starsat telescope spaceborne telescopes . Starsat telescope RT coronagraphs spaceborne astronomy spectroheliographs ultraviolet astronomy  Starsite program GS programs . Starsite program RT architecture buildings communities conferences construction decision making ∞ development environmental engineering information retrieval
DEF scope t United S received to the scope t	A proposed satellite ultraviolet telenat was a joint project between the states, Canada, and Australia. It is curabeyance. Used for Spacelab UV-Felescope Facility.  Spacelab UV-Optical Telescope Facility  telescopes . spaceborne telescopes . Starlab . ultraviolet telescopes . Starlab optics Space Shuttle payloads Spacelab  raircraft C-141 aircraft be mission programs . NASA programs . NASA space programs . Starprobe mission . space mission space missions space mission Starprobe mission Starprobe spacecraft  be spacecraft unmanned spacecraft . space probes . Starprobe mission Starprobe spacecraft Starprobe mission	red giant stars carbon stars . horizontal branch stars . infrared stars . late stars cool stars carbon stars flare stars flare stars M stars Mira variables Omicron Ceti star S stars magnetic stars magnetic stars magnetic stars dwarf stars dwarf stars dwarf stars sun massive stars metallic stars metallic stars magnetars metallic stars sun massive stars pulsars soft gamma repeaters pulsars soft gamma repeaters peculiar stars shell stars Sigma Orionis symbiotic stars Praesepe star clusters pre-main sequence stars T Tauri stars radio stars reference stars subdwarf stars subdwarf stars subdyant stars subgiant stars subgiant stars subgiant stars supergiant stars	starquakes starspots stellar activity stellar composition stellar cores stellar gravitation stellar interiors stellar magnitude stellar oscillations Virgo galactic cluster  stars (mathematics) RT ∞ mathematics  Starsat telescope DEF An anastigmatic 3-mirror reflecting telescope for ultraviolet astronomy purposes aboard the Starsat satellite. GS telescopes . reflecting telescopes . Starsat telescope spaceborne telescopes . Starsat telescope RT coronagraphs spaceborne astronomy spectroheliographs ultraviolet astronomy  Starsite program GS programs . Starsite program RT architecture buildings communities conferences construction decision making ∞ development environmental engineering information retrieval land use
DEF scope t United S received to the scope t	A proposed satellite ultraviolet telenat was a joint project between the states, Canada, and Australia. It is curabely accepted by the states of the states	red giant stars carbon stars horizontal branch stars infrared stars late stars cool stars carbon stars flare stars K stars M stars Mira biesbroeck star Mira variables Omicron Ceti star S stars magnetic stars dwarf stars dwarf novae flare stars red dwarf stars sun massive stars metallic stars metallic stars metallic stars pulsars soft gamma repeaters peculiar stars shell stars sigma Orionis symbiotic stars praesepe star clusters protostars pre-main sequence stars T Tauri stars radio stars pulsars pulsars pre-main sequence stars T Tauri stars radio stars pulsars pulsars pulsars pulsars pre-main sequence stars T Tauri stars pulsars reference stars subdwarf stars subgiant stars subgiant stars supergiant stars	starquakes starspots stellar activity stellar composition stellar cores stellar gravitation stellar interiors stellar magnitude stellar oscillations Virgo galactic cluster  stars (mathematics) RT ∞ mathematics  Starsat telescope DEF An anastigmatic 3-mirror reflecting telescope for ultraviolet astronomy purposes aboard the Starsat satellite. GS telescopes . reflecting telescopes . Starsat telescope spaceborne telescopes . Starsat telescope RT coronagraphs spaceborne astronomy spectroheliographs ultraviolet astronomy  Starsite program GS programs . Starsite program RT architecture buildings communities conferences construction decision making ∞ development environmental engineering information retrieval land use management methods NASA programs planning
DEF scope t Voited S recorded in the second of the second	A proposed satellite ultraviolet telemat was a joint project between the states, Canada, and Australia. It is curabeyance. Used for Spacelab UV-Felescope Facility.  Spacelab UV-Optical Telescope Facility telescopes . starlab . ultraviolet telescopes . Starlab . ultraviolet telescopes . Starlab . optics Space Shuttle payloads Spacelab . aircraft C-141 aircraft  be mission programs . NASA programs . NASA space programs . NASA space programs . NASA space programs . Starprobe mission space missions . Starprobe mission Starprobe spacecraft unmanned spacecraft unmanned spacecraft . Starprobe spacecraft Starprobe mission . Starprobe spacecraft Starprobe mission	red giant stars carbon stars . horizontal branch stars . infrared stars . late stars cool stars carbon stars flare stars flare stars M stars Mira variables Omicron Ceti star S stars magnetic stars magnetic stars magnetic stars dwarf stars dwarf stars dwarf stars sun massive stars metallic stars metallic stars magnetars metallic stars sun massive stars pulsars soft gamma repeaters pulsars soft gamma repeaters peculiar stars shell stars Sigma Orionis symbiotic stars Praesepe star clusters pre-main sequence stars T Tauri stars radio stars reference stars subdwarf stars subdwarf stars subdyant stars subgiant stars subgiant stars subgiant stars supergiant stars	starquakes starspots stellar activity stellar composition stellar cores stellar gravitation stellar interiors stellar magnitude stellar oscillations Virgo galactic cluster  stars (mathematics) RT ∞ mathematics  Starsat telescope DEF An anastigmatic 3-mirror reflecting telescope for ultraviolet astronomy purposes aboard the Starsat satellite. GS telescopes . Starsat telescope . Starsat telescope . Starsat telescope . Starsat telescope  RT coronagraphs spaceborne astronomy spectroheliographs ultraviolet astronomy  Starsite program GS programs . Starsite program RT architecture buildings communities conferences construction decision making ∞ development environmental engineering information retrieval land use management methods NASA programs

	social factors	RT	static loads	determi	ne a balance of systems at rest.
	technology transfer		static stability	GS	models
	urban development		static tests	D.T.	. static models
	urban planning	ototio	deformation	RT	approximation
starspo	ts	GS	deformation		dynamic models optimization
DEF	Temporary disturbed areas in the stel-	GO	. static deformation		Optimization
lar phot	osphere that appear dark because they	RT	creep properties	static p	ressure
	er than the surrounding areas.		Maxwell-Mohr method	GS	pressure
GS	stellar activity		Saint Venant principle		static pressure
	. starspots	etatic	dischargers	DT	hydrostatic pressure
RT	faculae	UF	antistatic devices	RT	isostatic pressure pitot tubes
• • • • • • • • • • • • • • • • • • • •	magnetic disturbances	GS	dischargers		sound pressure
	photosphere		. static dischargers		
	solar activity		.1	static s	•
	stars		electricity	GS	stability
	stellar atmospheres	GS	electricity . static electricity		. static stability
	stellar luminosity stellar magnetic fields	RT	atmospheric electricity		dimensional stability structural stability
	stellar radiation		atmospherics		shell stability
	sunspot cycle		electric corona	RT	aircraft stability
	twenty-seven day variation		electric fields		counterbalances
			electric potential		drift (instrumentation)
starters			electric sparks		dynamic stability
GS	starters		electrostatic charge		magnetohydrostatics
RT	. engine starters actuators		electrostatics lightning		static characteristics
п	ignition systems		open circuit voltage		storage stability stratification
	squibs		space charge		surface stability
	starting		3		Surface Stability
	ŭ	static	firing	static to	ests
starting		DEF		SN	(ENCOMPASSES MATERIALS, ENGINE,
GS	starting		position to measure thrust and accomplish	GS	AND VEHICLE TESTS) captive tests
DT	. air start	other to		GS	. static tests
RT	activation actuation	do	captive tests . static tests		static firing
	cycles		static firing	RT	cold flow tests
	electric ignition		engine tests		compression tests
	engine primers		. static firing		creep tests
	excitation		firing (igniting)		dynamic tests
	firing (igniting)		. test firing		engine tests
	ignition		. static firing		fatigue tests
	initiation		ground tests		ground tests hardness tests
	launching ∍ priming		. prelaunch tests static firing		inspection
	reactor startup tests	RT	rocket firing		load tests
	starters		Tooket ming	۰	materials tests
	stimulation	static	friction		missile tests
		GS	friction		nondestructive tests
state eq			. static friction		prefiring tests
USE	equations of state	RT	coefficient of friction		prelaunch tests
ototo or	stimation		dry friction friction measurement		quality control resonance testing
RT	algorithms		kinetic friction		static characteristics
	Kalman filters		sliding		tensile tests
	linear systems		sliding friction		test firing
	orbital position estimation			۰	∘ tests
	state vectors		inverters		vibration tests
	stochastic processes	GS	inverters		wear tests
	actorio	RT	. static inverters electric generators	static t	hruet
state ve	algebra	111	electric generators	GS	thrust
ao	. vector spaces	static	loads	0.0	. static thrust
	vectors (mathematics)	UF	deadweight	RT	jet thrust
	state vectors	GS	loads (forces)		rocket thrust
RT	observability (systems)		. static loads		
	phase-space integral	RT	aerodynamic loads	statics	
	state estimation		axial compression loads	GS	statics
	steady state		axial loads ballast (mass)		. aerostatics . electrostatics
	strange attractors		bending moments		. hydrostatics
static a	erodynamic characteristics		compression loads		magnetohydrostatics
GS	aerodynamic characteristics		critical loading	RT •	∞ dynamics
0.0	. static aerodynamic characteristics		dynamic loads		elastostatics
	static characteristics		edge loading	۰	∘ equilibrium
	. static aerodynamic characteristics		flexural strength		fluid mechanics
RT	aerodynamic balance		loading moments		mechanics (physics)
	aerodynamic stability		mass distribution	-1-1-	any arbita
0	o characteristics		moment distribution		ary orbits Orbits in which the satellite revolves
etatio -	Iternators		pressure distribution random loads		ne primary at the angular rate at which
GS GS	electric generators		Saint Venant principle		nary rotates on its axis. From the primary,
us	. AC generators		static characteristics		ellite thus appears to be stationary over a
	static alternators		structural design criteria		the primary.
			transverse loads		orbits
static c	haracteristics		wing loading		. circular orbits
SN	(EXCLUDES STATICS)				stationary orbits
GS	static characteristics		models  Sets of equations of physical laws to		. equatorial orbits
	. static aerodynamic characteristics	DEF	Sets of equations of physical laws to		stationary orbits

	. spacecraft orbits	. statistical correlation		. statistical correlation
	satellite orbits	. statistical decision theory		statistical analysis
ОТ	stationary orbits	. statistical tests	DT	statistical correlation
RT	Earth orbits	Kolmogorov-Smirnov test	RT	correlation coefficients
	geosynchronous orbits	Mann-Whitney-Wilcoxon U test		data correlation
	synchronous satellites twenty-four hour orbits	rank tests . variance (statistics)		econometrics evaluation
	twenty-loar floar orbits	analysis of variance		quality control
station	keeping	multivariate statistical analysis	۰	statistics
	The sequence of maneuvers that	bivariate analysis		teleconnections (meteorology)
	ns a vehicle in predetermined orbit.	covariance		tolocomicono (motocrology)
GS	positioning	orthogonality		cal decision theory
	stationkeeping	regression analysis	GS	decision theory
RT	formation flying	regression coefficients		statistical decision theory
	guidance (motion)	RT ∞ analyzing		statistical analysis
	navigation	∞ applications of mathematics		statistical decision theory
	orbital mechanics	approximation	RT	game theory
	orbits	autoregressive processes	0	• theories
	payload retrieval (STS)	binomial theorem	statistic	cal distributions
	satellite constellations	biometrics	UF	random distributions
	spacecraft control	censored data (mathematics)	GS	statistical distributions
		charts		. brightness distribution
stations GS	stations	Chebyshev approximation		. Pearson distributions
us	ground stations	cluster analysis		. probability distribution functions
	Deep Space Instrumentation	coefficients		. Rayleigh distribution
	Facility	confidence	RT	binomial theorem
	Earth terminals	confidence limits		censored data (mathematics)
	integrated mission control center	continuity (mathematics)		complexity
	polystation doppler tracking system	correlation		curve fitting
	. hydroelectric power stations	∞ data	•	o distribution
	. payload stations	data correlation		distribution (property)
	. space stations	decision theory discrete functions		distribution functions
	Automatic Universal Orbiting	dispersion     dispersion		distribution moments
	Stations	economics		error functions
	Columbus space station	estimates		events
	Halo Orbit space station	estimating		expectancy hypothesis
	International Space Station	events		forecasting
	man tended free flyers	expectancy hypothesis		gamma function goodness of fit
	Mir space station	experiment design		•
	orbiting lunar stations	exponential functions		Kolmogorov-Smirnov test kurtosis
	Salyut space station	extrapolation		mathematical models
	Skylab 1	factorial design		outliers (statistics)
	Skylab 2	failure analysis		probability theory
	Skylab 3	forecasting		quality control
	Skylab 4	game theory		quantiles
	Space Operations Center (NASA)	Gauss-Markov theorem		quantum theory
	Space Station Freedom	graphs (charts)		quartiles
	space station polar platforms	information theory		reliability
	. tracking stations	inspection		scattering
	Deep Space Instrumentation Facility	interpolation		size distribution
	Global Tracking Network	linear prediction	atatiatia	cal mechanics
	polystation doppler tracking system	management		Branch of physics concerned with pre-
	. weather stations	∞ mathematics		of the behavior of macroscopic systems
	automatic weather stations	maximum entropy method mean		on the interactions of the microscopic
	. workstations	median (statistics)		ents of the system, where the number of
	crew workstations	Mills ratio		ents is very large.
	crew experiment stations	minimum variance orbit determination	RT	
	crew observation stations	Monte Carlo method		Boltzmann transport equation
RT ∘	⇒ bases	MTBF		classical mechanics
0	facilities	operations research		closure law
	lunar bases	outliers (statistics)		cluster variation method
	military air facilities	parameter identification		continuum mechanics
	planetary bases	probability theory		energy distribution
	position (location)	quality control		fluctuation theory
	space bases	quartiles		function space
	Space Flight Tracking and Data	queueing theory		Ising model
	Network	random processes		Liouville equations
tatietie	cal analysis	reliability		macroscopic equations
GS	statistical analysis	root-mean-square errors		Malkus theory
ao	. amplitude distribution analysis	sampling		many body problem
	. correlation coefficients	∞ statistics		Maxwell-Boltzmann density function mechanics (physics)
	. discriminant analysis (statistics)	stochastic processes		molecular dynamics
	. factor analysis	system identification		Onsager phenomenological coefficient
	. goodness of fit	systems analysis systems engineering		quantum mechanics
	. likelihood ratio	tables (data)		quantum theory
	. Maxwell-Boltzmann density function	Taguchi methods		renormalization group methods
	. nonparametric statistics	teleconnections (meteorology)		thermodynamic equilibrium
	Poisson density functions	traveling salesman problem		virial theorem
	probability density functions	trend analysis		weighting functions
	normal density functions	Wiener filtering		
	Pearson distributions	Yang-Mills theory		al moments
	Rayleigh distribution	,	USE	distribution moments
	Weibull density functions	statistical communication theory	statistic	al probability
	. probability distribution functions	USE communication theory		probability theory
	. quantiles	and the state of t		
	. sequential analysis	statistical correlation		cal tests
	. standard deviation	GS correlation	UF	Bruceton test

# statistical weather forecasting

GS	statistical analysis		motors		unsteady flow
	. statistical tests		pumps		unsteady state
	Kolmogorov-Smirnov test		∞ rotating electrical machines		· ····, · ····
	Mann-Whitney-Wilcoxon U test		rotors	steady	state creep
	rank tests		stator blades	GS	mechanical properties
RT	charts		turbines		. creep properties
	confidence limits				steady state creep
	curve fitting	statutes	3	RT	plastic flow
c	∞ data	USE	law (jurisprudence)		quasi-steady states
	estimates		u u i i i i i i i i i i i i i i i i i i		quae. eteauj etatee
	estimating	stays		steady :	state flow
	factor analysis	ÚSE	guy wires	,	equilibrium flow
	goodness of fit		· ,		
	heterogeneity	STDN (	network)	stealth	bomber
	homogeneity	DEF	Spaceflight Tracking and Data Net-		B-2 aircraft
	likelihood ratio		ame changed from Space Tracking and		
	normality		cquisition Network (STDAN). Used for	stealth	technology
			e Tracking and Data Acq Network,		ed November 2001)
	null hypothesis		raft Tracking and Data Network, and		Methods, materials, and designs for
	outliers (statistics)		N (satellite tracking network).		g the detectability of vehicles and other
	quality control		Satellite Tracking and Data Acq		by radar or any other electronic or
	range (extremes)	O.	Network	optical i	•
	regression analysis		Spacecraft Tracking and Data	UF	antidetection technology
	reliability		Network	GS	
	significance			GS	countermeasures
c	∞ tests	00	STADAN (satellite tracking network)	БТ	stealth technology
	validity	GS	networks	RI	antiradar coatings
			. tracking networks		B-2 aircraft
statisti	cal weather forecasting		STDN (network)		camouflage
GS	meteorology	RT	•		electronic countermeasures
	. weather forecasting		Global Tracking Network		electronic warfare
	statistical weather forecasting		minitrack system		optical countermeasures
	predictions		optical tracking		radar absorbers
	. forecasting		range and range rate tracking		radar cross sections
	weather forecasting		satellite tracking		radar detection
	statistical weather forecasting		space detection and tracking system		radar signatures
RT	long range weather forecasting		Space Flight Tracking and Data		spacecraft defense
п			Network		target masking
	numerical weather forecasting		tracking stations		target recognition
			traditing diations		X-45 aircraft
statisti		steady	flow		X 40 dilolati
SN	(USE OF A MORE SPECIFIC TERM IS	GS		steam	
	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)	ao	. steady flow	RT	boilers
RT	arrays		Couette flow		fog
	biometrics		Hartmann flow		superheating
	census		Ringleb flow		thermodynamics
c	∞ data	RT	Beltrami flow		water
	demography	n i			
	entropy (statistics)		continuity equation		water vapor
	estimates		critical flow		lla
	estimating		Crocco method	steam 1	fluid flow
	Fermi-Dirac statistics		equilibrium flow	GS	. steam flow
	information theory	•	∞ flow	ОТ	
	nonparametric statistics		flow characteristics	KI	critical flow
	populations		flow geometry		gas flow
	• •		flow stability		laminar flow
	probability theory		gas flow		mass flow
	quantiles		heat transmission		multiphase flow
	quantum statistics		hydrodynamic coefficients		orifice flow
	random variables		laminar flow		pipe flow
	reliability		liquid flow		pipelines
	sampling		low turbulence		pressure gradients
	statistical analysis		mass flow		single-phase flow
	statistical correlation		method of characteristics		steady flow
	stochastic processes		multiphase flow		subcritical flow
	surveys		nonNewtonian flow		supercritical flow
	systems engineering		orifice flow		turbulent flow
	tables (data)		parallel flow		uniform flow
	time series analysis		pipe flow		unsteady flow
			pressure gradients		•
stator l	olades		quasi-steady states	steam o	generators
GS	turbomachine blades		single-phase flow		boilers
	. stator blades		solids flow		
RT «	∞ blades		steam flow	steam 1	turbines
	compressor blades		Stokes flow		turbomachinery
	rotor blades (turbomachinery)		subcritical flow	ao	. turbines
	rotor stator interactions		supercritical flow		steam turbines
	stators		turbulence	RT	axial flow turbines
	turbine blades		turbulence turbulent flow	111	combined cycle power generation
	vanes				gas turbine engines
	varies		two dimensional flow		
			uniform flow		gas turbines
stators			unsteady flow		turbogenerators
DEF	In machinery, parts or assemblies that		.1.1.		two stage turbines
	stationary with respect to rotating or	steady			
	parts or assemblies such as the field		The condition of a substance or sys-	stearate	
	of electric motors or generators, or the		ose local physical and chemical proper-	GS	esters
stationa	ry casings and blades surrounding axial	ties do	not vary with time.		. stearates
flow cor	mpressor rotors or turbine wheels.	RT «	∞ equilibrium	RT	soaps
RT	compressors		fluid dynamics		
	electric motors		metastable state	stearot	hermophilus
c	∞ generators		stability	GS	microorganisms
	impellers		state vectors		. bacteria
	•				

	Bacillus	proportional to the fourth power of the absolute		stellar magnitude
	stearothermophilus	temperature of the black body.  GS laws		stellar spectra stellar spectrophotometry
steatite		. radiation laws		stellar spectrophotometry
USE	talc	Stefan-Boltzmann law	stellar	composition
		RT electromagnetic radiation	GS	•
steel st	ructures	emissivity		. chemical composition
GS	welded structures	flux (rate)		stellar composition
	. steel structures	heat radiators	RT	abundance
RT	composite structures	Kirchhoff law of radiation		B stars
	construction	radiative heat transfer		carbon stars
	rigid structures			isotope ratios
•	o structures	steganography		stars
steels		(added April 2002) DEF The art and science of communicating		stellar models
GS	alloys	in a hidden manner, usually involving a message		stellar physics stellar structure
	. iron alloys	embedded in a carrier medium such as print,		Stellar Structure
	steels	images, or computer files.	stellar	convection
	bainitic steel	RT computer information security		led June 1992)
	carbon steels	cryptography	GS	convection
	low carbon steels	security		stellar convection
	chromium steels	0. " ( ) ( )		solar convection (astronomy)
	Croloy high strength steels	Stellar (star tracker)	RT	Benard cells
	maraging steels	USE CCD star tracker		convection currents
	nickel steels	stellar activity		convective flow
	stainless steels	DEF A general term encompassing stellar		dynamo theory fluid flow
	austenitic stainless steels	phenomena such as stellar flares, starspot ac-		free convection
	ferritic stainless steels	tivity, magnetic activity, nuclear fusion, etc.		Rayleigh-Benard convection
	martensitic stainless steels	GS stellar activity		stellar activity
RT	austenite	. solar activity		stellar atmospheres
	bainite	faculae		stellar interiors
	cementite	solar flares		stellar magnetic fields
	ferrites	solar prominences		stellar physics
	hydrogen embrittlement martensite	solar storms		
	mischmetal	spicules	stellar	
	pearlite	sunspots . starspots	DEF	The central portion of the interior of
	pourito	sunspots	stars. GS	cores
steep g	radient aircraft	. stellar flares	do	. stellar cores
USE	V/STOL aircraft	solar flares		stellar interiors
		RT flare stars		. stellar cores
	t ascent method	∞ flares	RT	astrophysics
USE	steepest descent method	magnetic disturbances		degenerate matter
etoonos	st descent method	magnetohydrodynamics		gravitational collapse
UF	steepest ascent method	photosphere		planetary cores
RT	calculus of variations	starquakes		solar interior
	dynamic programming	stars		stars
0	→ methodology	stellar convection		stellar coronas
	minima	stellar luminosity		stellar structure
	optimization	stellar luminosity stellar magnetic fields	etallar	coronas
	parameter identification	stellar mass ejection		Ionized regions about stars formed by
	system identification	stellar oscillations		emitted during stellar flares. First discov-
otoonno	100	stellar physics	,	a stellar corona was made aboard the
steepne	slopes	stellar radiation	Dutch A	ANS satellite (1975) when permanent x
UUL	siopes	sunspot cycle	ray emi	ssion from the star SIRIUS was detected
steerab	le antennas		and me	easured.
DEF	Directional antennas whose major lobe	stellar atmospheres	GS	
can be	readily shifted in direction.	GS environments		. stellar coronas
GS	antennas	. extraterrestrial environments		solar corona
	. directional antennas	<b>stellar atmospheres</b> chromosphere		coronal holes
	steerable antennas	solar atmosphere	RT	coronal loops coronal mass ejection
	inertialess steerable antennas	solar transition region	111	ionization
	arrays	RT ∞ atmospheres		Orion nebula
	. antenna arrays steerable antennas	cool stars		stellar atmospheres
	inertialess steerable antennas	limb brightening		stellar cores
RT	beam steering	limb darkening		
	phased arrays	local thermodynamic equilibrium	stellar L	Doppler shift
	radar antennas	metallic stars	USE	Doppler effect
		pulsar magnetospheres		
steering		radiative transfer		envelopes
GS	steering	satellite atmospheres	UF RT	circumstellar matter
	. beam steering	starspots stellar convection	ΠI	astrophysics cool stars
HI∘	o control	stellar coronas		∞ envelopes
	control rockets	stellar interiors		interstellar matter
	controllability electron optics	stellar magnetospheres		protoplanetary disks
~	election optics ∍ flight			R Coronae Borealis stars
	focusing	stellar color		shell stars
	suspension systems (vehicles)	DEF The particular wavelengths of optical		stellar mass accretion
	, ( /	radiation emitted by a star.		stellar mass ejection
	rockets	GS electromagnetic properties		stellar structure
USE	control rockets	. optical properties		symbiotic stars
04.1	Dallaman Inn	color		Wolf-Rayet stars
	Boltzmann law	stellar color	atalls:	evolution
	One of the radiation laws which states	RT color-color diagram	stellar GS	evolution evolution (development)
	amount of energy radiated per unit time init surface area of an ideal black body is	color-magnitude diagram stellar luminosity	GS	stellar evolution
ii oiii a u	in our according to all lucal black body is	Stonar Iuminosity		. Stoner evolution

. . star formation luminescence . . coronal mass ejection . stellar mass accretion mass to light ratios asymptotic giant branch stars asteroseismology red dwarf stars cataclysmic variables astrophysics red giant stars dwarf novae asymptotic giant branch stars starspots magnetic clouds brown dwarf stars stellar activity novae color-magnitude diagram stellar color R Coronae Borealis stars cosmology stellar flares stellar activity degenerate matter stellar parallax stellar envelopes galactic evolution supernovae stellar physics gravitational instability Wolf-Rayet stars variable stars Hertzsprung-Russell diagram Wolf-Rayet stars horizontal branch stars stellar magnetic fields interstellar extinction magnetic fields stellar models late stars . stellar magnetic fields GS models main sequence stars . solar magnetic field . astronomical models neutral currents electromagnetic fields . stellar models planetary evolution interstellar magnetic fields astronomy magnetic field configurations solar neutrinos Population III stars pre-main sequence stars protoplanetary disks plasmas (physics) solar oscillations pulsar magnetospheres stellar composition protoplanets protostars starspots stellar interiors stellar activity supermassive stars stellar convection red giant stars stellar magnetospheres stellar motions solar nebula GS stellar motions solar system evolution stellar magnetospheres . stellar orbits star formation rate (added July 1988)
GS stellar magnetospheres . stellar oscillations stellar interiors . . solar oscillations stellar physics . pulsar magnetospheres magnetic fields . stellar rotation subgiant stars . . solar rotation
RT companion stars ∞ magnetospheres stellar atmospheres stellar fields corotation USE star distribution stellar magnetic fields Doppler effect Doppler-Fizeau effect stellar flares Eiections of material from stars in stellar magnitude double stars eruptions that last from a few minutes to an hour The measure of the relative brightness galactic rotation of a star. Stellar magnitudes are expressed in a variety of ways, according to the method or process of observation or determination. or more. Hipparcos satellite GS stellar activity ∞ motion proper motion . stellar flares GS magnitude . . solar flares sidereal time RT cataclysmic variables . stellar magnitude stellar parallax astronomy color-magnitude diagram flare stars stellar systems ∞ flares stellar luminosity stellar occultation ∞ intensity stellar physics luminance GS occultation stellar occultation stellar radiation luminous intensity red dwarf stars asteroid detection stellar gravitation stars eclipsing binary stars GS gravitation stellar color lunar occultation stellar gravitation stellar parallax . solar gravitation stellar orbits stellar mass (EXCLUDES PLANETARY ORBITS) gravitational binding energy GS orbits mass gravitational fields GS . stellar orbits gravitational instability stellar mass stellar motions gravitational lenses degenerate matter . stellar orbits stars galactic mass celestial mechanics stellar mass main sequence stars Nemesis (star) stellar systems mass to light ratios massive stars retrograde orbits stellar interiors stellar oscillations The subsurface portions of stars. stellar gravitation DEF Irregular fluctuations of the stellar at-GS stellar interiors stellar temperature . solar interior mospheres. supernovae GS oscillations stellar cores variable stars . stellar oscillations asteroseismology RT astrophysics stellar mass accretion . solar oscillations convection DEF Process by which a star accumulates stellar motions gravitational collapse matter as it moves through dense clouds of . stellar oscillations interstellar gas. nuclear fusion . solar oscillations asteroseismology evolution (development) astronomical models stellar activity stellar evolution stellar atmospheres . stellar mass accretion astronomy stellar convection RT accretion disks astrophysics atmospheric models stellar evolution cosmology stellar models dwarf novae cataclysmic variables stellar physics galactic evolution Mira variables stellar structure gravitational effects stars interstellar gas stellar activity interstellar matter stellar luminosity symbiotic stars GS electromagnetic properties variable stars protostars . optical properties star formation . . luminosity stellar parallax stellar envelopes . . stellar luminosity The subtended angle at a star formed stellar physics brightness by the mean radius of the Earth's orbit; it indisymbiotic stars

x ray binaries

stellar mass ejection

stellar mass ejection

ejection

GS

cates distance to a star.

GS

parallax

astrometry

binary stars

stellar parallax

brightness distribution

limb brightening

limb darkening

Hertzsprung-Russell diagram horizontal branch stars

	Hipparcos satellite	Herbig-Haro objects	space plasmas
	solar parallax	Hertzsprung-Russell diagram	stellar winds
	stellar luminosity	horizontal branch stars	. corpuscular radiation
	stellar magnitude	infrared spectra	energetic particles
	stellar motions	K stars	plasmas (physics)
		line spectra	space plasmas
	physics	molecular spectra	stellar winds
	A term that encompasses the physical	peculiar stars	RT chromosphere
	es of stars, such as luminosity, size,	Seyfert galaxies	cosmic plasma
	density, temperature, chemical composi-	stellar color	galactic winds
	olution, activity, etc.	symbiotic stars	intergalactic media
GS	astrophysics	ultraviolet spectra	interstellar gas
	stellar physics	visible spectrum	radiation pressure
	solar physics	x ray spectra	solar wind
RT	asteroseismology		solar wind velocity
	local thermodynamic equilibrium	stellar spectrophotometry	
	nuclear astrophysics	GS optical measurement	stellarators
	nuclear fusion	. photometry	DEF Experimental thermonuclear device
0	∞ science	astronomical photometry	where containment in a magnetic field i
	starquakes	stellar spectrophotometry	achieved by closing the field upon itself and thu
	stellar activity	spectrophotometry	allowing the particles to perform endless spira
	stellar composition	stellar spectrophotometry	motion.
	stellar convection	spectroscopy	GS nuclear reactors
	stellar evolution	. astronomical spectroscopy	. fusion reactors
	stellar flares	. stellar spectrophotometry	stellarators
	stellar interiors	. spectrophotometry	RT helical windings
	stellar luminosity	stellar spectrophotometry	heliotrons
	stellar mass accretion	RT color-color diagram	magnetohydrodynamics
	stellar radiation	horizontal branch stars	pinch effect
	stellar rotation	infrared photometry	plasma control
	stellar structure	peculiar stars	thermal instability
	supernovae	spectroscopic telescopes	thermonuclear power generation
		stellar color	thermonuclear reactions
	radiation	superhumps (astronomy)	toroidal plasmas
GS			- m. 6
	stellar radiation	stellar structure	Stellite (trademark)
БТ	stellar winds	RT chromosphere	UF Haynes Stellite
RT	cosmic rays	coronal holes	RT chromium alloys
	electromagnetic radiation	dense plasmas	cobalt alloys
	galactic radiation	metallic stars	tungsten alloys
	gamma ray bursts	peculiar stars	
	Herbig-Haro objects	solar atmosphere	stem cells
	interstellar extinction	solar corona	(added August 2004)
	interstellar radiation	solar interior	DEF Relatively undifferentiated cells that re
	light curve	starquakes	tain the ability to divide and proliferate through
	microwave emission	stellar composition	out postnatal life to provide progenitor cells the
	polarized electromagnetic radiation	stellar cores	can differentiate into specialized cells
0	∞ radiation	stellar envelopes	GS cells (biology)
	radiative transfer	stellar interiors	stem cells
	radio bursts	stellar physics	RT biotechnology
	radio stars	∞ structures	cell division
	solar radiation	supermassive stars	culture techniques
	starspots	A. H	cytology
	stellar activity	stellar systems	-1
	stellar flares	SN (EXCLUDES PLANETARY SYSTEMS)	stems
	stellar physics	DEF Gravitationally bound groups of stars.	RT plants (botany)
	x ray stars	SN (Excludes planetary systems).	-1!!
		GS celestial bodies	stencil processes
	rotation	. stellar systems	RT printing
GS	gyration	RT binary stars	reproduction (copying)
	. rotation	galactic clusters	oton foulto
	stellar rotation	galactic rotation	step faults USE geological faults
	solar rotation	galactic structure	USE geological faults
	stellar motions	galaxies	etan functions
	stellar rotation	gravitational collapse	step functions
БТ	solar rotation	gravitational effects	GS functions (mathematics) . step functions
RT	angular momentum	interacting galaxies	•
	corotation	Nemesis (star)	RT dynamic response
	planetary rotation	Sigma Orionis	frequency response
	starquakes	star clusters	intervals
	stellar physics	star distribution	ramp functions reaction time
-4-11		stellar gravitation	
	seismology	stellar motions	∞ steps
	ed March 2001)	triple stars	oton recovery diadea
USE	asteroseismology	etallar tomporaturo	step recovery diodes
otollor.	onostro	stellar temperature GS temperature	DEF Varactors in which forward voltage in
GS	spectra		jects carriers across the junction, but before the
us	•	. <b>stellar temperature</b> RT cool stars	carriers can combine, the voltage reverses an
	. radiation spectra		carriers return to their origin in a group. The
	electromagnetic spectra	stellar mass	result is an abrupt cessation of reverse currer and a harmonic rich waveform.
	stellar spectra	symbiotic stars	GS electronic equipment
RT	solar spectra	stellar winds	. diodes
ПІ	absorption spectra	GS extraterrestrial radiation	semiconductor diodes
	astronomical spectroscopy	. stellar radiation	
	color-color diagram		junction diodes
	continuous spectra	stellar winds	step recovery diodes
	cool stars	particles	. solid state devices
	emission spectra	. charged particles	semiconductor devices
	F stars	energetic particles	junction diodes
	G stars	plasmas (physics)	step recovery diodes

RT switching broadcasting has now been developed. RT thorax acoustics stepped leaders hearing steroids (added August 1999) GS organic compounds electric current stereophotography . lipids steroids . electric discharges stereography UF . . lightning stereoscopic photography ... cholesterol . . . leaders (meteorology) GS imagery ... corticosteroids .... stepped leaders . photography .... aldosterone . . stereoscopy ... hydroxycorticosteroid steppes stereophotography . . . . . cortisone GS landforms aerial photography . . . . glucocorticoids . steppes arid lands black and white photography . . . estrogens cinematography . . prostaglandins desertification color photography antibiotics grasslands Mapsat hormones plains photogrammetry SPOT (French satellite) stethoscopes stepping motors

DEF Motors whose rotations are in short medical equipment GS stereoscopic photography stethoscopes and essentially uniform angular movements USE stereophotography RT physicians rather than a continuous motion. GS electromechanical devices stereoscopic vision stiction . electric motors GS (added May 2003) . stepping motors stereoscopic vision DEF Adhesion between two bodies in conmotors binocular vision tact due to surface forces. . electric motors stereoscopy GS surface properties . stepping motors . adhesion RT actuators stereoscopy stiction servocontrol GS imagery friction servomechanisms . photography interfacial energy . . stereoscopy stepping switches . stereophotography Stieltjes integral switches STEREO (observatory) GS analysis (mathematics) . electric switches stereoscopic vision . real variables . . stepping switches . . measure and integration stereotelevision . Stieltjes integral steps GS communication equipment RT probability theory (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) ŠN stereotelevision telecommunication stiff structures . stereotelevision backward facing steps USE rigid structures television systems programming (scheduling) . stereotelevision stairsteps stiffening closed circuit television step functions RT reinforcement (structures) color television ribs (supports) communicating STEREO (observatory) webs (supports) educational television (added July 2007) satellite television DEF Two nearly identical space-based obstiffness

DEF The ratio of change of force (or torque) spacecraft television servatories traveling in offset orbits to provide 3-D stereoscopic images of the sun. Launched to the corresponding change in translational (or rotational) displacement of an elastic element. sterilization on October 26, 2006 as part of NASA's Solar GS cleaning Terrestrial Probes Program, the observatories mechanical properties . sterilization will be used to characterize coronal mass ejecstiffness . . chemical sterilization tions, energetic particle acceleration in the low RT . spacecraft sterilization bending corona and interplanetary medium, and improve air purification antifouling deformation the determination of the structure of the ambient flexibility solar wind. modulus of elasticity antiseptics UF Solar Terrestrial Relations ∞ rigidity bactericides Observatory softness baking observatories structural stability decontamination . astronomical observatories . . solar observatories fumigation stiffness matrix gnotobiotics . . STEREO (observatory) GS algebra housekeeping (spacecraft) coronal mass ejection . vector spaces ionizing radiation solar activity . . matrices (mathematics) solar terrestrial interactions mercury lamps . . stiffness matrix pasteurizing space missions structural analysis purification stereoscopy structural members ultraviolet radiation stereochemistry stigmatism sterilization effects Chemistry dealing with the arrangeelectromagnetic properties RT chemical effects ment of atoms and molecules in three dimen-. optical properties corrosion sions stigmatism decontamination carbohydrates RT degradation astigmatism ∞ chemistry enantiomers ∞ deoxification focusing ∞ effects lens design isomers radiation effects lenses optical activity spacecraft sterilization spatial distribution stilbene temperature effects x ray analysis GS organic compounds thermal degradation . hydrocarbons stereography stilbene USE stereophotography sterns USE afterbodies dyes hexanitrostilbene stereolithography USE lithography sternum stills GS anatomy . musculoskeletal system stereophonics separators GS The use of two sound channels to . . bones . stills

. . . sternum

RT

concentrators

mimic normal hearing. Stereophonic satellite

	distillation equipment		metal vapor lasers	lowed b	by isothermal expansion with heat addi-
			neodymium lasers		e heat is then rejected at constant vol-
stimula			nuclear pumped lasers		ollowed by isothermal compression with
GS	drugs		organic lasers	heat rej	
	. stimulants		dye lasers	GS	cycles
	atropine caffeine		plasmadynamic lasers		. thermodynamic cycles
	central nervous system stimulants		pulsed lasers	рт	Stirling cycle
	norepinephrine		Q switched lasers	RI	Carnot cycle solar dynamic power systems
RT	aminophylline		ultrashort pulsed lasers ultraviolet lasers		Stirling engines
• • • • • • • • • • • • • • • • • • • •	epinephrine		Raman lasers		Stilling engines
	strychnine		ring lasers	Stirling	engines
	•		semiconductor lasers		engines
stimula	ated emission		aluminum gallium arsenide lasers		. external combustion engines
GS			gallium arsenide lasers		Stirling engines
	stimulated emission		quantum cascade lasers		. piston engines
RT	argon lasers		quantum well lasers		Stirling engines
	carbon dioxide lasers		YLF lasers	RT	· ·
	carbon lasers		solar-pumped lasers		engine design
	carbon monoxide lasers		solid state lasers		engine tests
	coherent electromagnetic radiation coherent light		aluminum gallium arsenide lasers		free-piston engines
	electron emission		DBR lasers		linear alternators
	electron pumping		fiber lasers		Stirling cycle
	gallium arsenide lasers		gallium arsenide lasers	stirring	1
	gas lasers		quantum cascade lasers quantum well lasers	RT	aeration
	gas masers		ruby lasers		dispersing
	HCN lasers		YAG lasers		friction stir welding
	interstellar masers		YLF lasers		mixers
	lasers		spaceborne lasers		suspending (mixing)
	light emission		surface emitting lasers		swirling
	masers		tunable lasers		
	nuclear pumping		two-wavelength lasers	stishov	
	optical pumping		waveguide lasers	DEF	A mineral consisting essentially of sili-
	particle emission		fiber lasers	con trio	
	photoelectric emission		x ray lasers	GS	chalcogenides
	population inversion		. masers		. oxides
	rapid ballistics identification		gas masers		dioxides
	rare gas-halide lasers		hydrogen masers		silicon dioxide
	self sustained emission		. interstellar masers		quartz stishovite
	surface emitting lasers TEA lasers		proton masers		silicon oxides
	two-wavelength lasers		traveling wave masers		silicon dioxide
	ultrashort pulsed lasers	ОТ	water masers		quartz
	ultraviolet lasers	RT	•		stishovite
	anaviolot laboro		coherent electromagnetic radiation		minerals
stimula	ated emission devices		diffraction radiation		. quartz
UF	quantum generators		electron pumping		stishovite
GS	stimulated emission devices		laser arrays		silicon compounds
	. lasers		laser cavities		silicon oxides
	airborne lasers		laser pumping		silicon dioxide
	argon lasers		laser weapons		quartz
	atmospheric lasers		lasing		stishovite
	carbon lasers		light transmission	RT	
	chemical lasers		nuclear pumping		Earth crust
	HCL lasers		optical pumping		Earth mantle
	HCL argon lasers chemical oxygen-iodine lasers		rapid ballistics identification		rutile
	continuous wave lasers		subharmonic generators	etocha	stic processes
	distributed feedback lasers		transient oscillations		Ordered sets of observations in one or
	free electron lasers				imensions, each being considered as a
	gamma ray lasers	stimul			of one item from a probability distribu-
	gas lasers	GS			ed for Poisson process.
	carbon dioxide lasers		. auditory stimuli		poisson process
	carbon monoxide lasers	RT	. sensory stimulation activation	GS	stochastic processes
	DF lasers	111	activation (biology)		. Markov processes
	excimer lasers		actuation		Markov chains
	HCL lasers		cloud seeding		. random processes
	HCL argon lasers		gas injection		random walk
	HCN lasers		initiation	RT «	∞ applications of mathematics
	helium-neon lasers		pressurizing		attractors (mathematics)
	HF lasers		starting		autoregressive moving average
	nitrogen lasers				chaos
	rare gas-halide lasers krypton fluoride lasers	∞ stimul	i		coherence coefficient decision theory
	xenon chloride lasers	SN	(USE OF A MORE SPECIFIC TERM IS		differential games
	xenon fluoride lasers		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		ergodic process
	TEA lasers	RT			events
	ultraviolet lasers		auditory stimuli		Fokker-Planck equation
	gasdynamic lasers		caloric stimuli		game theory
	glass lasers		electric stimuli		information theory
	high power lasers		motivation		Kakutani theorem
	Nova Laser System		psychological factors		Kalman-Schmidt filtering
	Shiva laser system		subliminal stimuli		martingales
	infrared lasers		visual stimuli		mathematical models
	. injection lasers		zeitgebers		Monte Carlo method
	quantum cascade lasers	<b></b>			operations research
	iodine lasers		g cycle		probability theory
	chemical oxygen-iodine lasers		A theoretical heat engine cycle in		queueing theory
	liquid lasers	wnich	heat is added at constant volume, fol-		random errors

random noise . . . . chassignites scattering cross sections random signals . . . . Kapoeta achondrite state estimation . . . . nakhlites storable propellants statistical analysis . . . . Norton County achondrite GS consumables (spacecraft) ∞ statistics .... shergottites storable propellants time dependence SNC meteorites propellants time functions . . . . ureilites storable propellants time series analysis . . . carbonaceous meteorites cryogenic rocket propellants ... carbonaceous chondrites gaseous rocket propellants stockpiling . Alais meteorite gelled rocket propellants accumulations . . . . . Allende meteorite ground support equipment high temperature propellants collection Cold Bokkeveld meteorite inventory management Ivuna meteorite hydrocarbon fuels logistics Murchison meteorite hypergolic rocket propellants reserves Murray meteorite liquid rocket propellants ∞ storage . Orgueil meteorite propellant additives strategic materials . . . . Tonk meteorite propellant decomposition . . . . ureilites propellant evaporation stoichiometry chondrites propellant sensitivity RT chemical reactions . Bruderheim meteorite propellant storability ∞ chemistry carbonaceous chondrites propellant storage ∞ composition Alais meteorite rocket propellants composition (property) Allende meteorite solid propellants formulations Cold Bokkeveld meteorite space storage material balance Ivuna meteorite phase diagrams Murchison meteorite  $\infty \ \, \text{storage}$ (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) Murray meteorite Stokes flow Orgueil meteorite GS fluid flow Tonk meteorite . incompressible flow buffer storage Harleton meteorite computer storage devices ... Stokes flow Hvittis chondrite core storage . viscous flow Okhansk meteorite cryogenic fluid storage . Stokes flow Pantar chondrites data storage RT Oseen approximation Pribram meteorite steady flow disposal . . . tektites document storage . . . . australites ∞ Stokes law energy storage . bediasites (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) external store separation SN . . . Tungusk meteorite external stores coesite fluid filled shells iron meteorites laws handling equipment Maxwell equation Lazarev meteorite inventories Stokes law (fluid mechanics) meteoritic composition inventory controls meteoritic microstructures Stokes theorem (vector calculus) inventory management schreibersite ion storage stony-iron meteorites Stokes law (fluid mechanics) liquid filled shells RT settling logistics ∞ Stokes law stony-iron meteorites logistics management viscosity (added December 1988) magnetic storage celestial bodies materials handling Stokes law of radiation . meteorites missile silos GS laws . stony-iron meteorites missile storage . radiation laws iron meteorites packaging . Stokes law of radiation stony meteorites pipelines incident radiation preserving luminescence propellant storage ∞ radiation stopcocks racks (frames) wavelengths ÚSE cocks recordina reserves Stokes theorem (vector calculus) retaining GS algebra stopping safety terminating vector spaces UF space storage Stokes theorem (vector calculus) GS stopping stockpiling theorems thrust termination storage tanks Stokes theorem (vector calculus) blocking stowage (onboard equipment)  $RT \propto Stokes \ law$ cancellation underground storage closing Stokes-Beltrami equation waste disposal constrictions wing-fuselage stores RT ∞ equations containment Laplace equation damping storage batteries stream functions (fluids) deceleration (RECHARGEABLE BATTERIES) delay secondary batteries STOL aircraft elimination electrochemical cells USE short takeoff aircraft ∞ holding . electric batteries ∞ inhibition . . storage batteries stomach optimization . . . lead acid batteries GS anatomy plugs . . . nickel cadmium batteries . digestive system prevention ... nickel hydrogen batteries . . gastrointestinal system ∞ reduction . . . nickel zinc batteries . stomach retarding . . . silver cadmium batteries RT abdomen sealing . . . silver hydrogen batteries . . . silver zinc batteries stones (rocks) ... zinc-bromide batteries USF rocks stopping power absorbers (materials) . . zinc-chlorine batteries stony meteorites absorption cross sections alkaline batteries GS celestial bodies ∞ cross sections battery chargers charge efficiency . meteorites density (mass/volume) . . stony meteorites dry cells neutron cross sections

radiation absorption

radiation shielding

electrolytes

lithium batteries

... achondrites

. . . . Bondoc meteorite

# strain gage accelerometers

metal air batteries ice prevention meteorological parameters nickel iron batteries precipitation (meteorology) meteorology nonaqueous electrolytes rainstorms precipitation (meteorology) primary batteries snowstorms snow pulse charging snow cover regenerative fuel cells squalls storm surges storm enhancement storage rings (particle accelerators) RT coasts storm surges electron ring accelerators hurricanes watersheds particle accelerators ocean surface weather forecasting . cyclic accelerators oceanography wind (meteorology) . . synchrotrons storm damage storage rings (particle storms (meteorology) StormSat satellite accelerators) surges DEF A synchronous Earth-pointing satellite for severe storms studies. Used for Severe Storms Observing Satellite. RT ∞ accelerators storms Q values (nuclear physics) storms Severe Storms Observing Satellite . ionospheric storms superconducting super collider artificial satellites . . sudden ionospheric disturbances . synchronous satellites storage stability . magnetic storms StormSat satellite GS life (durability) . . polar substorms RT NASA programs . storage stability . noise storms stability . solar storms Stoss-and-Lee topography . storage stability . storms (meteorology) USE glacial drift . . cyclones decomposition liquid sloshing . . . hurricanes STOVL aircraft long term effects . . . . Anna hurricane (added July 1991) static stability ... typhoons UF short takeoff & vertical landing aircraft surface stability . . downbursts fighter aircraft thermal stability . microbursts (meteorology) lift augmentation . . dust storms powered lift aircraft storage tanks . . hailstorms short takeoff aircraft tanks (containers) . . rainstorms V/STOL aircraft . storage tanks . . . thunderstorms vertical landing cryogenic fluid storage . . snowstorms cryogenic tanks cylindrical tanks . . tornadoes stowage (onboard equipment) . . tropical storms RT logistics onboard equipment . . . hurricanes expulsion bladders . . . . Anna hurricane external tanks portable equipment . . . typhoons fuel tanks provisioning pipelines space logistics cold fronts pressure vessels space rations propellant tanks ∞ disturbances ∞ storage flood damage space storage spherical tanks floods straight wings fronts (meteorology) ∞ storage USE rectangular wings tank geometry gusts precipitation (meteorology) underground storage strain aging wing-fuselage stores snow cover solar terrestrial interactions USE precipitation hardening storm damage store release USE external store separation storm enhancement strain distribution storm suppression GS distribution (property) storm damage sudden storm commencements . strain distribution GS damage warm fronts crack propagation storm damage weather forecasting deformation RT cyclones wind (meteorology) elastic deformation flood control fracture mechanics floods storms (meteorology) plastic deformation gusts GS storms strain measurement . storms (meteorology) hailstorms strain rate hurricanes . . cyclones stress concentration landslides . . . hurricanes stress distribution precipitation (meteorology) . Anna hurricane stress-strain relationships rainstorms ... typhoons snow cover . . downbursts strain energy methods storm surges . microbursts (meteorology) GS structural analysis dust storms storms . energy methods thunderstorms . . hailstorms . . strain energy methods . . rainstorms tornadoes RT ∞ energy tropical storms . . . thunderstorms ∞ methodology . . snowstorms typhoons seismic energy wind (meteorology) . . tornadoes . . tropical storms strain energy release rate storm enhancement . . . hurricanes GS rates (per time) weather modification . . . . Anna hurricane . strain energy release rate storm enhancement . typhoons elastic deformation climatology Alpine meteorology elastic properties hailstorms climatology relaxation (mechanics) precipitation (meteorology) cyclogenesis strain rate flight conditions rainstorms stress relaxation flood control snowstorms storms flood damage strain fatigue storms (meteorology) flood predictions USE fatigue (materials) floods storm suppression GOES 13 weather modification strain gage accelerometers GS around wind storm suppression GS measuring instruments gusts

hail

ice

RT

climatology

hailstorms

. accelerometers

.. strain gage accelerometers

RT	pressure gages	rectangular panels reinforcement (structures)	operations research risk	
strain g	age balances	water tunnel tests	warfare	
GS	measuring instruments			
	. indicating instruments	strands	stratification	
	weight indicators	RT cables (ropes)	GS stratification	
БТ	strain gage balances	ceramic fibers	. atmospheric stratification	ı
RT	pressure gages	cordage	. intercalation	
otroin o	10000	fibers	RT anticlines	
strain g	Instruments used to measure the	∞ filaments	bedrock	
	distortion in a member or test specimen	mesh	crossbedding (geology)	
	s a structural part) subjected to a force.	yarns	flat layers	
GS	measuring instruments	strange attractors	folds (geology)	
0.0	. strain gages	DEF Abstract geometrical objects in theo-	geosynclines	
RT	cable force recorders	retical physics that represent motion which is	∞ layers	
	deformeters	bounded but not periodic. Their detailed behav-	static stability	
	elastometers	ior is sensitive to external perturbations, but their	strata	
	extensometers	overall qualitative behavior is stable. They are of	stratified flow	
	flight load recorders	particular interest in the study of turbulence.	stratigraphy	
	mechanical measurement	GS attractors (mathematics)	synclines	
	piezoelectric gages	. strange attractors	temperature gradients thermoclines	
	pressure gages	RT chaos	literifiociiries	
	rosette shapes	fractals		
	shock measuring instruments	imbeddings (mathematics)	stratified flow	
	strain measurement	iterative solution	GS fluid flow	
	stress measurement	nonlinear systems	. laminar flow	
	temperature inversions	numerical stability	stratified flow	
	tensometers	perturbation theory	RT baroclinic waves	
	transducers	∞ physics	baroclinity	
	weight indicators	recursive functions	coaxial flow	
atuain b		state vectors	flow geometry	
	ardening	theoretical physics	shear flow	
GS	hardening (materials)	turbulence	stratification	
	. work hardening strain hardening	strangeness		
RT	aging (materials)	RT hyperons	stratified layers	
	aging (materials) aging (metallurgy)	mesons	USE <b>strata</b>	
	precipitation hardening	parity		
	residual stress	quantum mechanics	stratigraphy	
	shot peening	4	DEF That branch of geology wh	nich treats o
	stress relieving	strapdown inertial guidance	the formation, composition, sequen	ice, and cor
	temperature inversions	GS guidance (motion)	relation of the stratified rocks as	part of the
		. inertial guidance	Earth's crust.	
	neasurement	strapdown inertial guidance	GS stratigraphy	
RT ∘	o measurement	RT inertial navigation	. magnetostratigraphy	
	shearography		RT anticlines	
	smart structures	straps	bedrock	
	strain distribution	RT anchors (fasteners)	beds (geology)	
	strain gages	∞ bands	crossbedding (geology)	
	strain rate	clamps	∞ formation	
	stress-strain diagrams	fasteners	formations	
	stress-strain relationships	holders	geochronology	
	structural strain	etrata	geology	
strain r	ata.	strata UF stratified layers	geophysics	
GS	rates (per time)	GS strata	geosynclines	
ao	. strain rate	. substrates	hydrogeology mines (excavations)	
RT	impact tests	RT anticlines	paleontology	
	loading rate	bedrock	particle tracks	
	mechanical properties	beds (geology)	petrology	
	Portevin-le Chatelier effect	crossbedding (geology)	plateaus	
	strain distribution	flat layers	regolith	
	strain energy release rate	folds (geology)	rocks	
	strain measurement	geosynclines	sedimentary rocks	
	temperature inversions	∞ layers	stratification	
		stratification	synclines	
strain s		synclines	wells	
USE	plastic deformation	underground acoustics		
			stratocumulus clouds	
straits	5.1.1.1	strategic materials	GS clouds (meteorology)	
DEF	Relatively narrow waterways connect-	DEF Critical raw materials whose foreign	. stratocumulus clouds	
	larger bodies of water.	source of supply is uncertain and subject to	RT cumulus clouds	
GS	passageways	potential cutoff. Examples of such materials are	stratus clouds	
	. straits	chromium, cobalt, manganese, and platinum		
RT	Torres Strait canals	group metals. RT chromium	04	
n.	Gibraltar	cobalt	Stratofortress aircraft	
	lakes	manganese	USE <b>B-52 aircraft</b>	
	seas	∞ materials		
	water	∞ materials metals	Stratojet aircraft	
	waterways	stockpiling	USE B-47 aircraft	
		technology assessment		
strakes		toomology abbodomont	stratopause	
GS	structural members	strategy	SN (ALTITUDE APPROXIMATELY	/ 50 KM)
	. strakes	RT decision theory	GS Earth atmosphere	JU INIVI)
RT	aerodynamic configurations	deployment	. middle atmosphere	
	hulls (structures)	electronic warfare	stratosphere	
	longerons	game theory	stratopause	
	metal strips	∞ operations	RT mesopause	

	mesosphere		lenses		intersections
Stratos	cope 1 telescope	etroak	photography		pavements roads
	stratoscope telescopes		The process of taking a time exposure	~	tunnels
002			aph of a tracer particle in a fluid; the	~	urban planning
Stratos	cope 2 telescope		aph reveals the motion of each tracer		urban research
	stratoscope telescopes		in the form of a streak which may be		urbari rescareri
	·		ted as a velocity vector.	∞ strengt	h
	cope telescopes		imagery	SN	(USE OF A MORE SPECIFIC TERM IS
UF	Stratoscope 1 telescope	0.0	. photography		RECOMMENDEDCONSULT THE TERMS
	Stratoscope 2 telescope		streak photography	DT	LISTED BELOW)
GS		RT	cameras	RT	cold strength compressive strength
	. spectroscopic telescopes		electro-optical photography		creep rupture strength
	stratoscope telescopes		high speed cameras		creep strength
RT			imaging techniques		dispersion strengthening
	reflecting telescopes				electric field strength
	refracting telescopes	stream	functions (fluids)		fiber strength
-44		RT	incompressible flow		field strength
stratos			potential theory		flexural strength
SIV	(ALTITUDE RANGE BETWEEN APPROXIMATELY 15 AND 50 KM)		Stokes-Beltrami equation		fracture strength
DEF	Region of the atmosphere between the		streams		high strength
	here and mesosphere, having a lower		two dimensional flow		impact strength
	ry about 8 km. at the poles to 15 km. at				load carrying capacity
	ator and an upper boundary of about 50	streaml			mechanical properties
km.	,,	USE	laminar flow		microyield strength
GS	Earth atmosphere				muscular strength
	. middle atmosphere		lined bodies		notch strength
	stratosphere	GS	symmetrical bodies		residual strength
	ozonosphere		. streamlined bodies		shear strength
	stratopause	5.7	fairings		tensile strength
RT	chemosphere	RT	aerodynamic configurations		weld strength
	homosphere		airfoils		yield strength
	ice clouds		axisymmetric bodies bodies		,
	isothermal layers	۰	bodies of revolution	strength	of materials
	stratospheric warming			USE	mechanical properties
			missile bodies		
	phere radiation		ogives	strepto	
	Any infrared radiation involved in the		slender bodies streamlining	GS	microorganisms
	x infrared exchange continually proceed-		towed bodies		. bacteria
	nin the stratosphere.		towed bodies		streptococcus
GS		stream	lining	otronto	munatan
ОТ	. stratosphere radiation	RT			mycetes microorganisms
RT			air flow	GS	. bacteria
	electromagnetic radiation ∞ radiation		aircraft design		streptomycetes
•			aircraft structures		streptomycetes
	sky radiation		airfoil profiles	strepto	mycin
	tropospheric radiation		airfoils		drugs
Stratos	pheric Aerosol & Gas Experiment		fairings		. antibiotics
	SAGE satellite		fluid dynamics		streptomycin
OOL	OAGE Stiente		friction reduction		, .
Stratos	pheric Observatory for IR Astronomy		helicopter design	stress (	biology)
	SOFIA (airborne observatory)		hydrofoils	DEF	The effect of a physiological, psycho-
	7,	۰	∘ profiles	logical,	or mental load on a biological organism
stratos	pheric warming		skin friction	which o	auses fatigue and tends to degrade
(add	led October 1988)		streamlined bodies	proficier	ncy.
DEF	A temperature rise in the global strato-			GS	stress (biology)
sphere.		streams			. acceleration stresses (physiology)
GS	heating	DEF	Bodies of flowing water, great or small,		centrifuging stress
	. atmospheric heating		ed within channels as well as uncon-		. flight stress (biology)
	stratospheric warming		luids such as air.		space flight stress
RT	anomalous temperature zones	GS	streams		. plant stress
	atmospheric heat budget	5.7	. gas streams		. stress (psychology)
	atmospheric temperature	RT	air flow	RT	acclimatization
	climate change		alluvium		anxiety
	global warming		aquifers Delaware River Basin (US)		deprivation exercise physiology
	isothermal layers		fluid flow		1 , 0,
	stratosphere		gas flow		fatigue (biology)
Ctratate	ankar airereft		0		pathological effects
	anker aircraft		hydrology hydrology models		psychological effects
USE	C-135 aircraft		International Hydrological Decade	etrace /	physiology)
etratue	clouds		Lake Erie	,	stress (physiology)
	clouds (meteorology)		Lake Huron	ao	. acceleration stresses (physiology)
40	. stratus clouds		Lake Michigan		centrifuging stress
RT	fog		Lake Ontario	RT	acceleration (physics)
111	nimbostratus clouds		Lake Superior		acclimatization
	stratocumulus clouds		limnology		aeroembolism
			meanders		angina pectoris
streak	cameras		rapids		anoxia
	Cameras for measuring radiation		reservoirs		biodynamics
	by deflection of an electron beam.		rivers		deprivation
	optical equipment		stream functions (fluids)		exercise physiology
	. cameras		surface water		fatigue (biology)
	streak cameras		Susquehanna River Basin		flight stress (biology)
			Susquehanna River Basin (MD-NY-PA)		gravitational physiology
	streak cameras photographic equipment . cameras		•		gravitational physiology homeostasis
	streak cameras photographic equipment . cameras streak cameras		(MD-NY-PA)		gravitational physiology homeostasis hyperkinesia
RT	streak cameras photographic equipment . cameras	streets	(MD-NY-PA)		gravitational physiology homeostasis hyperkinesia hypoxia
RT	streak cameras photographic equipment . cameras streak cameras	streets RT	(MD-NY-PA)		gravitational physiology homeostasis hyperkinesia

muscular fatigue moment distribution notch strength Palmar sweat index notch strength plane strain physiology notch tests stress distribution tensile stress pressure breathing perforated plates space flight stress perforated shells stress (psychology) plane stress stress measurement underwater physiology Saint Venant principle GS mechanical measurement strain distribution . stress measurement stress (psychology) stresses . x ray stress measurement mental stress stress-strain relationships deformeters GS stress (biology) extensometers structural strain stress (psychology) photoelastic analysis RT fatigue (biology) shearography stress corrosion flight stress (biology) corrosion S-N diagrams mental performance . stress corrosion strain gages Palmar sweat index . stress corrosion cracking tensometers psychological effects cracking (fracturing) vibration measurement psychological factors fretting corrosion psychology stress propagation intergranular corrosion space flight stress metal fatigue GS transmission space psychology . stress propagation salt spray tests stress (physiology) elastic waves transgranular corrosion workloads (psychophysiology) plastic deformation stress corrosion cracking ∞ propagation stress analysis GS corrosion stress calculations . stress corrosion stress ratio GS stress analysis DEF The ratio of the minimum stress to the . stress corrosion cracking Schwartz method maximum stress occurring in one stress cycle. fracturing x ray stress analysis . cracking (fracturing) GS mechanical properties . . stress corrosion cracking corrosion tests Airy function stress ratio ∞ anályzing ratios bending moments stress ratio crack closure RT fatigue (materials) fatigue tests bending theory crack initiation boundary element method crack propagation Castigliano variational theorem modular ratios metal fatique combined stress pressure ratio construction S-N diagrams stress cycles creep analysis DEF A variation of stress with time, re-Donnell equations stress relaxation peated periodically and identically. energy methods Euler buckling The decrease in stress after a given DEF GS cycles time at constant strain. stress cycles ∞ flight stress mechanical properties mechanical properties fringe multiplication stress cycles . stress relaxation inelastic stress RT cyclic loads relaxation (mechanics) . stress relaxation influence coefficient Elber equation interference fit anelasticity fatigue (materials) isoparametric finite elements mechanical engineering Bordoni peaks fatigue life creep analysis creep diagrams fatigue tests Michell theorem S-N diagrams Moire fringes stresses creep properties moments of inertia variable amplitude loading ductility NASTRAN fatigue (materials) photoelastic analysis stress distribution plastic deformation photoelasticity UF stress fields plastic flow Reissner theory GS distribution (property) plastic memory Saint Venant principle stress distribution plastic properties shallow shell equations . stress concentration ∞ recovery S-N diagrams crack propagation residual stress stresses force distribution shear properties structural analysis fracture mechanics strain energy release rate structural design interlaminar stress stresses structural engineering strain distribution temperature inversions temperature inversions stress intensity factors stress-strain relationships stress relieving stress calculations GS heat treatment transverse loads USE stress analysis . stress relieving stress fields relieving stress concentration USE stress distribution . stress relieving DEF In structures, a localized area of high alloys stress functions annealing stress GS distribution (property) UF von Mises theory fatigue (materials) . stress distribution functions (mathematics) ∞ recovery . stress concentration stress functions residual stress combined stress RT stabilization fracturing concentrating strain hardening crack initiation stress intensity factors tempering cracking (fracturing) DEF Load-induced variables in tension, Elber equation compression, and/or shear which are conducive stress rupture strength fatigue (materials) to crack initiation and propagation and fatigue USE creep rupture strength fatigue tests fracture in materials. force distribution RT bending theory stress tensors combined stress DEF Complete sets of stress components in fringe multiplication hole distribution (mechanics) crack initiation a solid or fluid medium. hole geometry (mechanics) crack propagation GS algebra cracking (fracturing) edge cracks impact strength . tensors impact tests . . stress tensors loads (forces) force distribution continuum mechanics elastic properties fracture mechanics mechanical properties fracture mechanics

hole geometry (mechanics)

plastic properties

loads (forces)

micromechanics

Moire fringes

	structural design		residual stress strain distribution		cordage
stress v			strain measurement	∞ strip	
GS	elastic waves		stress concentration	SN	(USE OF A MORE SPECIFIC TERM IS
RT	. stress waves acoustic emission		stress distribution		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)
	shock layers		structural strain yield strength	RT	
	shock waves		yield strength		circuits
	stresses	etroce-	strain-time relations		display devices
	temperature inversions	RT	creep diagrams		metal strips
	wave propagation		Newtonian fluids		ribbons
~	waves		thermoviscoelasticity		runways
			,	atria m	in in a
	d-skin structures	stretch	forming	<b>strip m</b> GS	mining
RT	monocoque structures	RT	bulging	GS	. strip mining
	skin (structural member) spherical shells		cold working	RT	clays
~	structures	c	∘ drawing		coal
~	thin walled shells		metal drawing		Earth resources
	ami transa silono		metal working		excavation
stresse	s		stretching		exploitation
	The forces per unit area of a body that				lunar mining
	produce a deformation.	stretch			mineral deposits
GS	stresses	GS	medical equipment		mines (excavations)
	. axial stress	DT	. stretchers first aid		soils
	. combined stress	RT	tirst aid		
	. critical loading	-44-1-	·		ansmission lines
	. interlaminar stress	stretch	•	GS	transmission lines
	. photostresses	UF RT	dilatation		. strip transmission lines microstrip transmission lines
	. plane stress . residual stress	ΠI	cold working deep drawing	RT	antenna feeds
	. Reynolds stress		dilatational waves	111	metal strips
	. shear stress		distortion		transmission circuits
	torsional stress	c	o drawing		transmission should
	. tensile stress		ductility	∞ strippiı	na
	. thermal stresses		elastic deformation	SN	(USE OF A MORE SPECIFIC TERM IS
	. triaxial stresses		elongation	0.1	RECOMMENDEDCONSULT THE TERMS
	. vibrational stress		metal working	DT	LISTED BELOW)
RT	buckling		plastic deformation	n i	anodic stripping ion stripping
	cracks		stretch forming		paint removal
	creep properties		tempering		peeling
	destruction	c	∘ tension		stripping (distillation)
	fatigue (materials)		winding		5 PF 3 (* * * * * * * * * * * * * * * * * *
~	flight stress impact		,	strippir	ng (distillation)
	loads (forces)		muscle		distillation
	mechanical properties		ed December 2004)		. stripping (distillation)
	microyield strength	USE	skeletal muscle	RT •	∞ separation
	prestressing			٥	∘ stripping
	rolling contact loads	striatio			vaporizing
	shear properties		A fracture surface marking consisting		
	stress analysis		paration of the advancing crack front into e fracture planes.	strobos	
	stress concentration	RT	grooving	GS	optical equipment
	stress cycles		musculoskeletal system		stroboscopes
	stress relaxation		riblets	RT	ballistic cameras
	stress waves		shatter cones		high speed cameras
	structural strain		skeletal muscle		optical measurement
	temperature inversions				synchronism time measurement
	transverse loads triboluminescence	string t	heory		velocity measurement
	x ray stress analysis	SN	(DOES NOT INCLUDE CLASSICAL		velocity measurement
	yield strength		STRING THEORY)	stroke	volumo
	yiold offorgar	UF	superstring theory		ed March 1991)
stress-s	strain diagrams	RT	bosons		output
GS	diagrams		cosmology field theory (physics)	0.0	. cardiac output
	. stress-strain diagrams		gauge theory		stroke volume
RT	axial strain		grand unified theory	RT	
	Hookes law		gravitation theory		cardiovascular system
	inelastic stress		large-scale structure of the universe		heart function
	modulus of elasticity		particle theory		heart rate
	Poisson ratio		quantum chromodynamics		physiological tests
	Portevin-le Chatelier effect		quantum theory		
	proportional limit shape memory alloys		relativity	strokes	5
	shear properties		supersymmetry	SN	(USE OF A MORE SPECIFIC TERM IS
	strain measurement		theoretical physics		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)
	structural strain		unified field theory	RT	
	yield strength				thermodynamic cycles
	, - ·g	stringe			
stress-s	strain relationships	DEF	Slender, lightweight, lengthwise fill-in	strokin	g tests
DEF	Relationship between the stress or		al members in a rocket body, or the like,		vibration tests
	a structure, structural member, or a		to reinforce and give shape to the skin.		. damping tests
	n, and the strain or deformation that	GS	structural members		stroking tests
follows.	1 8 16 8	RT	. stringers	RT	dynamic response
RT	elastic deformation	KI	longerons reinforcement (structures)		frequency response
	interlaminar stress		structural stability		modal response
	plane strain		S. Coloral Guolity		shock spectra
	plastic deformation Portevin-le Chatelier effect	ctrine-			structural vibration  tests
-	relationships	strings RT	assemblies	٥	o tests transient response
~	rolationalipa	ΠI	asserribiles		manorem response

wave excitation

strong interactions (field theory)

One of the fundamental interactions of elementary particles, primarily responsible for nuclear forces and other interactions among

particle interactions

. elementary particle interactions

. . high energy interactions

... strong interactions (field theory)

field theory (physics)

grand unified theory

∞ interactions

nuclear interactions nuclear reactions

quantum chromodynamics

standard model (particle physics)

∞ theories

weak interactions (field theory)

strongly coupled plasmas

DEF Highly compressed and collisional plasmas with electron densities of order 10 to the 24th power per cubic centimeter or more. The mean kinetic and potential energies of particles in the plasma are typically of the same order of magnitude.

GS particles

. charged particles

. . energetic particles

. . . plasmas (physics)

. . . . collisional plasmas

. strongly coupled plasmas

. . . . dense plasmas

. . . . strongly coupled plasmas

. corpuscular radiation

.. energetic particles

... plasmas (physics) . . . . collisional plasmas

..... strongly coupled plasmas

. . . . dense plasmas

strongly coupled plasmas

controlled fusion

cosmic plasma coupled modes

dusty plasmas

high temperature plasmas

inertial confinement fusion magnetohydrodynamic stability

plasma compression

plasma conductivity

plasma density

plasma equilibrium

plasma focus

## strontium

chemical elements GS

. strontium

. . strontium isotopes . . . strontium 85

... strontium 87

. . . strontium 89 . . strontium 90

metals

. strontium

. . strontium isotopes

. . . strontium 85

. . . strontium 87

. . . strontium 89

. . . strontium 90

strontium 85

GS chemical elements

. nuclides

. . isotopes

. . . radioactive isotopes

. . . . strontium 85

. . . strontium isotopes ... strontium 85

. strontium

. . strontium isotopes

. . . strontium 85

metals

. strontium

. . strontium isotopes

... strontium 85

strontium 87

GS chemical elements

. nuclides

. . isotopes

. . . strontium isotopes

. . . . strontium 87

. strontium

. . strontium isotopes

... strontium 87

metals . strontium

. . strontium isotopes

... strontium 87

strontium 88

GS chemical elements

. nuclides

. . isotopes

. . . radioactive isotopes

. . . . strontium 88

strontium 89

GS chemical elements

. nuclides

. . isotopes

. . . radioactive isotopes

.... strontium 89

. . . strontium isotopes

.... strontium 89

. strontium . . strontium isotopes

. . strontium 89

metals

. strontium

. . strontium isotopes

. . . strontium 89

strontium 90

GS chemical elements

. nuclides

. . isotopes

... radioactive isotopes

.... strontium 90

. . . strontium isotopes

. strontium

. . strontium isotopes

. . . strontium 90

metals

. strontium . . strontium isotopes

... strontium 90

strontium bromides

GS halogen compounds

. bromine compounds

. . bromides . strontium bromides

. halides . . bromides

... strontium bromides

. . metal halides

. . strontium bromides

strontium compounds strontium bromides

strontium compounds

GS strontium compounds

strontium bromides

strontium fluorides

strontium oxides

strontium sulfides strontium titanates

strontium zirconates RT ∞ alkaline earth compounds

∞ chemical compounds

∞ metal compounds

strontium fluorides

GS halogen compounds

. fluorine compounds . . fluorides

... metal fluorides

. . . . strontium fluorides

. halides

. . fluorides

. . . metal fluorides . . . . strontium fluorides . . metal halides

. . . metal fluorides

. . strontium fluorides

strontium compounds

. strontium fluorides

strontium isotopes

GS chemical elements

. nuclides . . isotopes

... strontium isotopes

.... strontium 85 . . . . strontium 87

... strontium 89

.... strontium 90

. strontium

. . strontium isotopes

. . . strontium 85

... strontium 87

. . . strontium 89

. . strontium 90 metals

strontium

. . strontium isotopes

. . . strontium 85

. . . strontium 87

. . . strontium 89 . . . strontium 90

strontium oxides

(added June 1992) GS chalcogenides

. oxides

. . metal oxides

. . strontium oxides strontium compounds

strontium oxides

 $RT \propto alkaline \ earth \ compounds$ BSCCO superconductors

 $\infty$  chemical compounds

high temperature superconductors ∞ metal compounds

mixed oxides superconductors (materials)

strontium sulfides

GS chalcogenides

. sulfides

. . inorganic sulfides

. strontium sulfides strontium compounds

strontium sulfides

sulfur compounds

. sulfides

. . inorganic sulfides

... strontium sulfides

strontium titanates

GS strontium compounds strontium titanates

titanium compounds . titanates

. . strontium titanates

strontium zirconates GS strontium compounds

strontium zirconates zirconium compounds

. zirconates . . strontium zirconates

Strouhal number

A nondimensional number occurring in the study of periodic or quasiperiodic variations in the wake of objects immersed in a fluid

stream. dimensionless numbers

. Strouhal number ratios

Strouhal number backwash

buffeting flow characteristics

flow distribution

flow stability Froude number

oscillating flow slipstreams

turbulence

unsteady flow

	vortices	lofting	structural influence coefficients
	wakes	materials selection	
otruotu.	ral analysis	missile design	structural materials USE construction materials
Structu	ral analysis	plant design	USE construction materials
UF	membrane analogy membrane theory	product development	structural members
GS	structural analysis	satellite design shape optimization	GS structural members
ao	. dynamic structural analysis	ship hulls	. beams (supports)
	flutter analysis	shock spectra	box beams
	. energy methods	space station structures	cantilever beams
	Bernstein energy principle	spacecraft design	curved beams
	strain energy methods	spacecraft structures	Euler-Bernoulli beams
	. equilibrium methods	stress analysis	I beams
	. matrix methods	stress tensors	rectangular beams
HI∘	o analyzing	substructures	Timoshenko beams
	Castigliano variational theorem	tensegrity structures	. columns (supports) tapered columns
	computational mechanics construction	underwater structures	. girders
	continuum modeling	weight reduction	. longerons
	creep analysis		. membrane structures
	design optimization	structural design criteria	skin (structural member)
	Euler-Bernoulli beams	GS criteria	. plates (structural members)
	hole geometry (mechanics)	. structural design criteria	. anisotropic plates
	influence coefficient	RT aerodynamic loads	. annular plates
	J integral	axial compression loads axial loads	cantilever plates
	loading moments	bending moments	circular plates
	megamechanics	compression loads	corrugated plates
	Michell theorem	cyclic loads	elastic plates
	Mindlin plates	∞ design	end plates
	modular ratios	design optimization	flat plates girder webs
	moment distribution	dynamic loads	metal plates
	NASTRAN orbital space tests	geotechnical engineering	boiler plate
	patch tests	gust loads	Mindlin plates
	plate theory	impact loads	orthotropic plates
	shape functions	landing loads	perforated plates
	shape optimization	loads (forces)	plastic plates
	solid mechanics	mass distribution	porous plates
	stiffness matrix	moment distribution	. rectangular plates
	stress analysis	pressure distribution	reinforced plates
	Trefftz method	random loads	thick plates
		rolling contact loads	thin plates
	ral basins	shape optimization shock loads	. saddles (supports)
UF	basins	static loads	. strakes
	closed basins	thrust loads	. stringers
	depressions (topography)	transient loads	. struts
GS	sinks (geology) landforms	vibratory loads	. trusses
us	. structural basins	,	. wing panels RT aircraft construction materials
	cirques (landforms)	structural dynamics	airframe materials
	Great Basin (US)	USE dynamic structural analysis	bars
	Kalahari Basin (Africa)	oce aynamic on actural analysis	∞ channels
	karst	atmost and an almost a	clamped structures
	sinkholes	structural engineering	∞ components
	kettles (geology)	RT aeronautical engineering aerospace engineering	concretes
	Lake Champlain Basin (NY-VT)	construction	construction
	river basins	∞ engineering	∞ construction materials
	Atchafalaya River Basin (LA)	geotechnical engineering	fasteners
	Chena River Basin (AK)	megamechanics	foundations
	Columbia River Basin	modular ratios	guy wires
	(ID-OR-WA)	smart structures	joints (junctions)
	Delaware River Basin (US)	stress analysis	masonry
	Feather River Basin (CA) Missouri River Basin (US)		pylon mounting
	Susquehanna River Basin	structural failure	pylons rectangular panels
	(MD-NY-PA)	GS failure	reinforcement (structures)
	Wabash River Basin (IL-IN-OH)	. structural failure	rods
	wadis	RT bending	slabs
	watersheds	buckling	smart structures
	Williston Basin (North America)	collapse	stiffness matrix
RT	geology	cracking (fracturing)	∞ structures
	seamounts	creep properties	substructures
	valleys	deformation	thick walls
		fatigue (materials)	
	al beams	fracturing	structural properties (geology)
USE	beams (supports)	load carrying capacity	UF lineament
	val danima	mechanical properties	GS geology
GS	ral design structural design	system failures	. <b>structural properties (geology)</b> RT Earth core
us	. pressure vessel design	-to-stand fetting	Earth crust
RT	aeroelastic research wings	structural fatigue	Earth mantle
111	aircraft design	USE fatigue (materials)	Earth planetary structure
	airframe materials		Earth surface
	architecture	structural foundations	fissures (geology)
	breakwaters	USE foundations	geophysics
	computer aided design		Great Basin (US)
	construction	structural influence coefficients	hydrology
0	o design	UF SIC (coefficient)	inliers (landforms)
	design optimization	GS coefficients	landforms
	helicopter design	. influence coefficient	neotectonics

# structural reliability

planetary composition . torsional vibration planar structures plates (tectonics) airfoil oscillations redundant components ∞ properties clamped structures rigid structures rock mechanics earthquake resistant structures ring structures shatter cones flexible spacecraft sandwich structures sinkholes flutter analysis smart structures subduction (geology) gyrodampers space erectable structures Mindlin plates space station structures structural reliability random vibration spacecraft structures GS reliability resonant vibration steel structures structural reliability rotor dynamics stellar structure RT aircraft reliability stressed-skin structures shaking component reliability shock spectra structural members stroking tests cumulative damage substructures quality control vibration tests tanks (containers) tensegrity structures structural rigidity towers structural weight USE structural stability trusses GS weight (mass) unimolecular structures structural weight structural stability variable geometry structures welded structures mass ratios structural rigidity materials selection GS mechanical properties NEW MOONS project wooden structures . dimensional stability weight analysis . . structural stability weight reduction struts . . shell stability GS structural members stability structured grids (mathematics) . struts . static stability chassis (added May 1995) . . dimensional stability DEF In computational fluid dynamics, grid columns (supports) . . . structural stability systems where the flowfield is discretized into frames . . . shell stability quadrilateral elements for two-dimensional pylons aircraft stability fields, and hexahedral elements for threesupports aspect ratio dimensional fields. In this type of grid system the trusses combustion vibration grid points can be associated with grid lines in hybrid structures an ordered manner. strychnine load carrying capacity GS coordinates GS bases (chemical) longerons . computational grids
. . structured grids (mathematics) . alkaloids plastic properties . strychnine reinforcement (structures) . multiblock grids nitrogen compounds resonance testing computational fluid dynamics . alkaloids ∞ rigidity grid generation (mathematics) . strychnine rotor stator interactions ∞ nets organic compounds stiffness smoothing . cyclic compounds stringers unstructured grids (mathematics) . . heterocyclic compounds wave resistance . . . alkaloids structured programming ... strychnine structural strain (added December 1989) poisons axial strain RT computer programming strychnine bending structured programming RT stimulants buckling computer aided design cracking (fracturing) computer programs STS deflection data structures USE space transportation system deformation ∞ programming elastic deformation programming languages STS-1 failure software engineering USE Space Transportation System 1 load carrying capacity moments of inertia plastic deformation flight ∞ structures (USE OF A MORE SPECIFIC TERM IS SN prestressing RECOMMENDED--CONSULT THE TERMS LISTED BELOW) STS-2 reinforcement (structures) USE Space Transportation System 2 rupturing aircraft structures fliaht architecture shear strain shearing atomic structure STS-3 breakwaters strain measurement USE Space Transportation System 3 bridges (structures) stress concentration fliaht clamped structures stresses stress-strain diagrams composite structures STS-4 stress-strain relationships concrete structures Space Transportation System 4 USE system failures configuration interaction flight temperature inversions crystal structure Earth planetary structure twisting students volumetric strain earthquake resistant structures UF trainees expandable structures warpage RT education fine structure instructors structural vibration folding structures learning vibration foundations training evaluation . structural vibration frames universities . . bending vibration galactic structure . . breathing vibration honeycomb structures . . flutter hulls (structures) studies USE investigation . . . panel flutter hybrid structures . . . subsonic flutter hyperfine structure ... supersonic flutter inflatable structures studs (structural members) . transonic flutter intramolecular structures RT anchors (fasteners) . . linear vibration isotensoid structures bolts columns (supports) . . missile vibration large space structures . . self induced vibration membrane structures fasteners . . . panel flutter microstructure holders

missile structures

molecular structure

monocoque structures

lugs

pins

screws

... subsonic flutter

... transonic flutter

. . . supersonic flutter

walls subcontracts supergiant stars agreements stunt flying subgravity contract management USE microgravity USE aerobatics contract negotiation contractors subgroups Sturm-Liouville operator estimates USE Sturm-Liouville theory sublattices UF grants algebra GS options Sturm-Liouville theory . group theory procurement . . homomorphisms Sturm-Liouville operator GS analysis (mathematics) subgroups . real variables subcritical flow matrices (mathematics) . Sturm-Liouville theory Open channel flow having a low velocnumber theory differential equations ity and a Founde number less than unity (also probability theory Lamb waves described as tranquil or streaming flow). set theory subdivisions Lame wave equations GS fluid flow . subcritical flow ∞ theories subsidiaries critical flow flow characteristics styluses subharmonic generators USE pens gas flow RT damping liquid flow ∞ generators styphnates multiphase flow harmonic generators GS explosives orifice flow harmonic oscillators styphnates pipe flow harmonics RT ∞ chemical compounds pressure gradients oscillators ∞ initiators single-phase flow signal generators initiators (explosives) steady flow steam flow stimulated emission devices styrenes SUBIC project supercritical flow GS stvrenes turbulent flow USE Submarine Integrated Control polystyrene uniform flow project . styrofoam (trademark) unsteady flow Buna (trademark) subjects ĠS classifications styrofoam (trademark) subcritical mass subjects plastics GS GS mass handbooks . polystyrene subcritical mass information retrieval . styrofoam (trademark) critical mass textbooks styrenes nuclear fission polystyrene nuclear reactions sublattices styrofoam (trademark) USE lattices (mathematics) vinyl polymers subgroups subdivisions . polystyrene RT ∞ division . styrofoam (trademark) sublayers ∞ groups foams USÉ substrates ∞ sections ∞ polymers set theory sublethal dosage subgroups subarctic regions GS dosage subsidiaries GS Northern Hemisphere . sublethal dosage . Arctic regions RT drugs subduction (geology)
DEF Descent of one tectonic unit under another. Most commonly used for descent of a regions sublimation DEF The transition of a substance directly . polar regions . . Arctic regions from the solid state to the vapor state, or vice slab of lithosphere, but appropriate at any scale. versa, without passing through the intermediate ... subarctic regions geology
subduction (geology) GS . remote regions liquid state. GS phase transformations . . Arctic regions Earth mantle . vaporizing ... subarctic regions earthquakes . . sublimation lithosphere ablation subassemblies neotectonics DEF Assemblies that are component parts beneficiation plates (tectonics) of larger assemblies. Used for subcircuits. condensing seismology GS assemblies crystallization structural properties (geology) . subassemblies desorption tectonics accessories diffusion evaporation ∞ components gas-metal interactions subdwarf stars subaudible frequencies gas-solid interfaces GS celestial bodies frequencies phase change materials . stars subaudible frequencies purification . subdwarf stars range (extremes) pyrometallurgy dwarf stars . frequency ranges
. . subaudible frequencies main sequence stars refining red dwarf stars ∞ separation acoustic frequencies vapor pressure white dwarf stars frequency distribution subliminal stimuli harmonics subgiant stars psychology zero sound DEF Celestial bodies whose position on the sensory stimulation Hertzsprung-Russell (H-R) diagram is intermesubcarrier waves ∞ stimuli diate between that of the main-sequence stars USE carrier waves and normal giants of the same spectral type. submarine cables celestial bodies subcircuits GS transmission lines . submarine cables . stars USE circuits . subgiant stars RT ∞ cables subcontracts carbon stars coaxial cables DEF Any contracts, other than prime condwarf stars communication cables tracts, entered into by a prime contractor or giant stars power lines

late stars

main sequence stars

stellar evolution

M stars

subcontractor calling for supplies or services

required for the performance of any one or more

prime contracts.

GS contracts

submarine hydrothermal vents

black smokers (oceanography)

(added March 2005)

deep-sea hydrothermal vents interstellar gas clouds and the processes that RT subroutines seafloor hydrothermal vents lead to the formation of stars and planets. Its white smokers (oceanography) primary objective is to survey water, molecular subroutines RT crystallization oxygen, carbon, and isotopic carbon monoxide A set of instructions necessary to direct deep water emission in a variety of galactic star forming a computer to carry out a well defined mathgeochemistry ematical or logical operation; a subunit of a hydrothermal systems ÚF Explorer 74 satellite routine, usually coded in such a manner that it mid-ocean ridges SWAS (satellite) can be treated as a black box by the routine mineralogy artificial satellites using it. ocean bottom . scientific satellites computer programs GS oceanography . . astronomical satellites subroutines sea floor spreading . . . Submillimeter Wave Astronomy data conversion routines volcanic eruptions Satellite . subroutines . . Explorer satellites RT compilers Submarine Integrated Control project ... Submillimeter Wave Astronomy parsing algorithms SUBIC project Satellite subroutine libraries (computers) programs . . small scientific satellites user manuals (computer programs) ... Submillimeter Wave Astronomy . projects Submarine Integrated Control Satellite subsets (mathematics) project observatories USE set theory RT ∞ control . astronomical observatories . . astronomical satellites
. . Submillimeter Wave Astronomy subsidence submarine propulsion RT isostasy GS propulsion Satellite mines (excavations) . marine propulsion interstellar chemistry settling ... underwater propulsion interstellar matter ... submarine propulsion molecular clouds subsidiaries spaceborne astronomy RT ∞ division submarines star formation Any self-powered underwater craft or ∞ sections submillimeter waves subdivisions towed underwater barges and arrays. subgroups GS water vehicles submillimeter waves . ships (BELOW 1 MILLIMETER) . . submarines ∞ subsonic aircraft electromagnetic radiation . . . ballistic missile submarines (USE OF A MORE SPECIFIC TERM IS SN . radio waves RECOMMENDED--CONSULT THE TERMS LISTED BELOW) . . . guided missile submarines . . short wave radiation . . . trident submarine RT ∞ aircraft . . submillimeter waves . underwater vehicles flying platforms beams (radiation) . . submarines general aviation aircraft GETOL aircraft electromagnetic noise . ballistic missile submarines far infrared radiation . . . guided missile submarines gliders frequencies . . trident submarine ground effect machines Large Deployable Reflector RT antiship missiles helicopters microwaves antiship warfare millimeter waves jet aircraft antisubmarine warfare Submillimeter Wave Astronomy light aircraft ∞ military vehicles paragliders Satellite navy passenger aircraft wavelengths nuclear powered ships rotary wing aircraft Seafarer project short takeoff aircraft ship hulls subminiaturization supersonic aircraft submerged bodies GS miniaturization tandem wing aircraft subminiaturization training aircraft submerged bodies RT electronic modules transport aircraft submerged bodies microminiaturization turboprop aircraft diving (underwater) miniature electronic equipment utility aircraft . underwater research laboratories printed circuits vertical takeoff aircraft RT submarines water takeoff and landing aircraft torpedoes suborbital flight towed bodies RT ∞ flight subsonic flow underwater engineering manned space flight DEF Flow of a fluid, as air over an airfoil, at underwater photography orbits speeds less than acoustic velocity. underwater structures parabolic flight fluid flow underwater vehicles rocket flight . subsonic flow water immersion space flight RT aerodynamics weightlessness compressible flow submerging flow velocity immersion gas flow subreflectors baths incompressible flow Cassegrain antennas dipping Karman vortex street quenching (cooling) conductors Ringleb flow sinking reflector antennas transonic flow reflectors ∞ soaking scanners water immersion weightlessness simulation subsonic flutter GS vibration wetting Subroc missile . structural vibration GS missiles submersible aircraft . . flutter . ballistic missiles . . . subsonic flutter  $RT \, \infty \, aircraft$ . . Subroc missile antisubmarine warfare aircraft . . self induced vibration . surface to surface missiles . . subsonic flutter light aircraft . . fleet ballistic missiles ∞ military aircraft RT transonic flutter . Subroc missile reconnaissance aircraft underwater to surface missiles research aircraft subsonic speed
SN (LESS THAN MACH 1)
GS rates (per time) Subroc missile water takeoff and landing aircraft underwater trajectories Submillimeter Wave Astronomy Satellite . subsonic speed

subroutine libraries (computers)

computer programs

. computer systems programs

. . subroutine libraries (computers)

velocity

low speed

RT

. subsonic speed

acoustic velocity

(added November 2000)

A NASA Small Explorer Project

(SMEX) satellite designed to study the chemical

composition, energy balance, and structure of

transonic speed

. . succinimides

### subsonic wind tunnels

test facilities GS

. 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 strata GS . substrates

RT coatings laminates

∞ layers metallizing photomasks plating ply orientation primers (coatings)

#### substructures

RT floors foundations structural design structural members ∞ structures supports undercarriages

# subtraction

GS number theory subtraction arithmetic computation Gaussian elimination

subtropical regions

walls

temperate regions USE tropical regions

# suburban areas

RT cities 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

- nitrogen compounds . amides GS

  - . succinimides
  - imides

#### succinonitrile

(added April 2004)

DEF A four-carbon straight chain dinitrile compound. A transparent, organic material with structure and growth characteristics similar to metals and alloys.

UF butanedinitrile ethylene cyanide GS

cyanides

. succinonitrile

nitrogen compounds

. nitriles

. . succinonitrile

organic compounds

. ethylene compounds succinonitrile

. nitriles

. . succinonitrile

#### sucrose

organic compounds carbohydrates . . sugars . . . sucrose

#### suction

evacuating (vacuum) pressure effects pressure gradients vacuum vacuum apparatus vacuum pumps

#### **Sud Aviation aircraft**

GS Sud Aviation aircraft

. Alouette helicopters . . SA-330 helicopter SE-3160 helicopter Concorde aircraft SA-321 helicopter

SE-210 aircraft

RT ∞ aircraft

Sud Aviation SA-321 helicopter USE SA-321 helicopter

Sud Aviation SA-330 helicopter SA-330 helicopter

Sud Aviation SE-210 aircraft USE SE-210 aircraft

Sud Aviation SE-3160 helicopter USE SE-3160 helicopter

### Sudan

GS nations Sudan RT Africa

# sudden enhancement of atmospherics

GS electromagnetic interference

. radio frequency interference

. . electromagnetic noise

... atmospherics

.... sudden enhancement of atmospherics

# sudden ionospheric disturbances

Complex combinations of sudden changes in the conditions of the ionosphere and the effects of these changes. Used for geomagnetic crotchets and SID (ionospheric disturbances).

geomagnetic crotchets SID (ionospheric disturbances) ionospheric disturbances . ionospheric storms

. . sudden ionospheric disturbances

storms

. ionospheric storms

solar activity effects

. . sudden ionospheric disturbances

RT ∞ disturbances magnetic disturbances magnetic storms traveling ionospheric disturbances

## sudden storm commencements

magnetic disturbances magnetic storms solar activity effects solar corpuscular radiation solar flares storms

#### sugar beets

GS farm crops sugar beets plants (botany) . sugar beets RT agriculture botany crop growth crop vigor Earth resources farmlands irrigation seeds sugars

#### sugar cane

GS farm crops sugar cane plants (botany) sugar cane RT agriculture botany crop growth crop vigor Earth resources farmlands ∞ food irrigation seeds

## sugars

GS organic compounds . carbohydrates . . sugars . . . dextrans inositols . . . lactose mannitol ... monosaccharides . . . sucrose .... hexoses . . . . . galactose

. . . . . alucose ... pentose . . . . ribose . . . xylose

RT ∞ food sugar beets

# suggestion

ĞS recommendations suggestion RT hypnosis

RT carrier injection

# Suhl effect

 $\infty$  effects electrons excitons holes (electron deficiencies) magnetic fields n-type semiconductors

recombination reactions

# suitability

acceptability compatibility

## suits

GS clothing suits . . pressure suits

. . . space suits ... extravehicular mobility units

RT garments

Sukhoi aircraft thioplastics . dimercaprol (added September 1995) bloedite sulfites RT ∞ aircraft ∞ chemical compounds GS sulfur compounds ∞ Group 6A compounds sulfates . sulfites sulfonic acid GS sulfur compounds . . hydrosulfites . sulfates . . sodium sulfites sulfur dioxides . alum GS chalcogenides ammonium sulfates sulfonates . oxides barite GS esters . . dioxides . . hydroxylamine sulfate sulfonates ... sulfur dioxides . . lithium sulfates sulfur compounds . . sulfur oxides . . magnesium sulfates . sulfonates . . sulfur dioxides ... hexahedrite RT ∞ salts sulfur compounds . . sodium sulfates . sulfur oxides sulfones gypsum . . sulfur dioxides sulfuric acid GS sulfur compounds sulfones sulfur fluorides sulfation RT sulfonic acid GS halogen compounds The introduction into an organic mol-. fluorine compounds ecule of the sulfuric ester group (or its salts) sulfonic acid . . fluorides -O-SO3H, where the sulfur is linked through an GS acids ... sulfur fluorides oxygen atom to the parent molecule. sulfonic acid . . . . sulfur hexafluoride chemical reactions RT sulfones . halides sulfation sulfur compounds . . fluorides RT hydrometallurgy ... sulfur fluorides sulfidation sulfur . . sulfur hexafluoride GS chemical elements sulfur compounds sulfidation . sulfur sulfur fluorides The reaction of a metal or alloy with a . . sulfur isotopes . . sulfur hexafluoride sulfur-containing species to produce a sulfur sulfur chlorides compound that forms on or beneath the surface sulfur hexafluoride of the metal or alloy. halogen compounds (added September 1993) chemical reactions . chlorine compounds gases . sulfidation . . chlorides sulfur hexafluoride corrosion resistance . sulfur chlorides halogen compounds gas-metal interactions . halides . fluorine compounds heat resistant alloys . . chlorides . . fluorides nickel alloys . sulfur chlorides . . . sulfur fluorides sulfation sulfur compounds sulfur hexafluoride sulfides sulfur chlorides . halides . . fluorides sulfides sulfur compounds . . . sulfur fluorides chalcogenides GS sulfur compounds .. sulfur hexafluoride . sulfides . organic sulfur compounds sulfur compounds . . disulfides . sulfates . sulfur fluorides . . . carbon disulfide . . alum . sulfur hexafluoride . . inorganic sulfides ammonium sulfates  $RT \propto chemical \ compounds$ . . . barium sulfides . . barite dielectrics . bismuth sulfides hydroxylamine sulfate infrared spectroscopy . . . cadmium sulfides . . lithium sulfates laser materials . . magnesium sulfates . calcium sulfides working fluids . . . copper sulfides . . . hexahedrite hydrogen sulfide . sodium sulfates sulfur isotopes . . . indium sulfides . sulfides GS chemical elements lead sulfides . . disulfides . nuclides . . . molybdenum sulfides ... carbon disulfide . . isotopes . molybdenum disulfides . . inorganic sulfides ... sulfur isotopes . . . barium sulfides . . . polysulfides . sulfur . . . strontium sulfides . . . zinc sulfides bismuth sulfides . . sulfur isotopes cadmium sulfides . . . . wurtzite calcium sulfides sulfur oxides ... zincblende copper sulfides GS chalcogenides . . pyrites hydrogen sulfide . oxides indium sulfides . . pyrrhotite . . sulfur oxides . troilite lead sulfides . sulfur dioxides sulfur compounds molybdenum sulfides sulfur compounds . sulfides . molybdenum disulfides sulfur oxides disulfides polysulfides . sulfur dioxides . . . carbon disulfide . . . strontium sulfides acid rain inorganic sulfides ... zinc sulfides dioxides . . . barium sulfides . . . . wurtzite ... bismuth sulfides . . . . zincblende sulfuric acid . . . cadmium sulfides . . pyrites . calcium sulfides . . pyrrhotite . sulfuric acid . . . copper sulfides . . . troilite sulfur compounds . hydrogen sulfide . sulfites sulfuric acid . . . indium sulfides . . hydrosulfites RT sulfates lead sulfides . sodium sulfites . . . molybdenum sulfides sulfonates sum rules . molybdenum disulfides sulfones GS rules ... polysulfides . sulfur chlorides . sum rules . strontium sulfides . sulfur fluorides RT sums . . . zinc sulfides . . sulfur hexafluoride . . . . wurtzite . sulfur oxides summaries . . . . zincblende . . sulfur dioxides GS summaries . . pyrites . sulfuric acid . abstracts . . pyrrhotite prelaunch summaries thiazine (trademark) annotations . troilite

. thiols

. . cysteine

bibliographies

sulfidation

	documentation	solar neighbornood	SKY
	indexes (documentation)	solar neutrinos	sky brightness
	information dissemination	solar oblateness	sky radiation
	postlaunch reports	solar observatories	solar energy
	reports	solar orbits	solar heating
		solar oscillations	sun
summe		solar parallax	thermal radiation
GS	seasons	solar physics	ultraviolet radiation
	. summer	solar ponds (heat storage)	Umkehr effect
RT	autumn	solar position	zodiacal light
	hot weather	solar power satellites	
	solstices	solar powered aircraft	sunrise
	spring (season)	solar probes	DEF The crossing of the visible horizon by
	winter	solar prominences	the upper limb of the ascending sun.
		solar propulsion	RT morning
sumps		solar protons	∞ science
RT	drainage	solar radar echoes	sunset
	pits (excavations)	solar radiation	terminator lines
	waste disposal	Solar Radiation 1 satellite	
	•	Solar Radiation 3 satellite	sunset
sums			DEF The crossing of the visible horizon by
RT	algebra	solar radiation shielding	the upper limb of the descending sun.
	amount	solar radio bursts	RT evening
	arithmetic	solar reflectors	∞ science
		solar rotation	sunrise
	computation	solar sails	terminator lines
	series (mathematics)	solar sea power plants	terminator intes
	sum rules	solar sensors	sunspot cycle
		solar simulation	DEF A cycle with an average length of 11.
sun		solar simulators	years but varying between 7 and 17 years in the
DEF	The star at the center of the solar	solar spectra	
system,	around which the planets, asteroids,	solar spectrometers	number and area of sunspots, as given by the
and con	nets revolve. It is a G-type star. Used for	· · · · · · · · · · · · · · · · · · ·	relative sunspot number. This number rises from
solar dis		solar storms	a minimum of 0 to 10 to a maximum of 50 to 140
UF	solar disk	solar system	about 4 years later, and then declines more
GS	celestial bodies	solar system evolution	slowly.
40	. stars	solar temperature	GS cycles
	G stars	solar terrestrial interactions	. solar cycles
		solar thermal propulsion	sunspot cycle
	sun	solar total energy systems	RT solar activity
	main sequence stars	solar velocity	starspots
	sun	solar wind	·
RT	AOSO	solar wind velocity	stellar activity
	ASTEC solar turboelectric generator	solar x-rays	sunspots
	celestial mechanics	sunlight	DEF Relatively dark areas on the surface o
	GRIST (telescope)		,
	light sources	Ulysses mission	the sun consisting of dark central umbras sur
	OSO	oup copoore	rounded by penumbras which are intermediate
	photosphere	sun sensors	in brightness between the umbras and the sur
	planets	USE solar sensors	rounding photosphere.
	·		GS stellar activity
	satellite solar energy conversion	Sunblazer space probe	. solar activity
	satellite solar power stations	GS unmanned spacecraft	sunspots
	solar activity	. space probes	starspots
	solar activity effects	solar probes	sunspots
	solar arrays	Sunblazer space probe	RT faculae
	solar atmosphere	RT multistage rocket vehicles	magnetic disturbances
	solar atriums	solid propellant rocket engines	
	solar auxiliary power units	Solid propoliditi rocket erigines	photosphere
	solar blankets	sunflowers	solar cycles
	solar cells	DEF Any of a number of tall related plants	solar flares
	solar collectors		solar terrestrial interactions
		having yellow, daisylike flowers with yellow,	twenty-seven day variation
	solar compasses	brown, purple, or almost black disks containing	
	solar constant	seeds from which an oil is extracted.	Sunyaev-Zeldovich effect
	solar cooling	GS farm crops	(added July 2000)
	solar corona	. sunflowers	DEF Compton scattering of microwave ra
	solar corpuscular radiation	plants (botany)	diation in the vicinity of galaxy clusters resulting
	solar cosmic rays	. sunflowers	in fluctuations in the cosmic microwave back
	solar cycles	RT agriculture	ground radiation (CMBR).
	solar eclipses	crop identification	UF S-Z effect
	solar electric propulsion	∞ crops	RT anisotropy
	solar electrons	Earth resources	Compton effect
	solar energy	Earth 1000d1000	cosmic gases
	solar energy absorbers	sunglasses	cosmic microwave background
	solar energy conversion	RT eye protection	radiation
	solar flares	, ,	
		eyepieces	∞ effects
	solar flux	goggles	galactic clusters
	solar flux density	optical filters	intergalactic media
	solar furnaces	visors	microwave scattering
	solar generators		radio astronomy
	solar granulation	sunlight	relic radiation
	solar gravitation	GS electromagnetic radiation	
	solar heating	. light (visible radiation)	Super Sabre aircraft
	solar houses	sunlight	ÚSE F-100 aircraft
	solar instruments	extraterrestrial radiation	
			superalloys
	solar interior	. solar radiation	USE heat resistant alloys
	solar limb	sunlight	
	solar longitude	RT black body radiation	supercapacitors
	solar magnetic field	circumsolar radiation	(added September 2003)
	Solar Maximum Mission	climatology	USE electrochemical capacitors
	Solar Maximum Mission-A	cloud cover	332 3.334 outlottion outpuotions
	Solar Mesosphere Explorer	infrared radiation	supercavitating flow
	solar nebula	insolation	UF supercavitation

GS fluid flow . turbulent flow . . cavitation flow . supercavitating flow hydrofoil oscillations supercavitation USE supercavitating flow superchargers supercharging turbochargers GS compressors superchargers RT air intakes blowers centrifugal compressors compressing internal combustion engines turbocompressors turbomachinery supercharging USE superchargers SuperCobra (added April 1997) USE AH-1W helicopter supercomputers DEF Computers with very large capacity and very high speed. GS data processing equipment computers .. supercomputers . . . Connection Machine . . Cray computers RT architecture (computers) grid computing (computer networks) hypercube multiprocessors multiprocessing (computers) parallel processing (computers) superconducting cavity resonators (added December 1992) resonators . cavity resonators . . superconducting cavity resonators superconducting devices
. superconducting cavity resonators microwave oscillators oscillators superconducting films superconducting magnets superconducting devices (added December 1992) superconducting devices
. SIS (superconductors)
. squid (detectors)

- superconducting cavity resonators
- superconducting magnets

Josephson effect superconducting films

superconducting power transmission superconducting super collider

tunnel junctions

# superconducting films

(added April 1989)

RT BSCCO superconductors  $\infty \, films$ 

laser deposition pulsed laser deposition semiconducting films

superconducting cavity resonators superconducting devices superconductors (materials)

thick films thin films

YBCO superconductors

# superconducting magnets

GS magnets

- . electromagnets
- . . superconducting magnets superconducting devices . superconducting magnets

cryogenic magnets flux pumps high field magnets

high temperature superconductors

magnet coils

magnetic energy storage

superconducting cavity resonators superconducting super collider

# superconducting power transmission

RT ∞ conductivity

cryogenics

electric power transmission

high temperature superconductors

low temperature physics

power lines

superconducting devices transition temperature transmission lines

superconducting quantum interferometers

squid (detectors)

# superconducting super collider

GS particle accelerators

superconducting super collider

storage rings (particle accelerators) superconducting devices superconducting magnets

## superconductivity

DEF A property of many elements, alloys, and compounds by virtue of which their electrical resistivity vanishes and they become strongly diamagnetic under appropriate conditions. Used for Meissner effect.

UF Meissner effect

electrical properties

. electrical resistivity

. . superconductivity . . Kondo effect

transport properties
. electrical resistivity

Abrikosov theory BCS theory

Bloch band

∞ conductivity

critical current

cryogenics

cryotrons

electron phonon interactions

electron tunneling flux pinning

flux pumps

gallium alloys

high temperature superconductors

Josephson junctions

Landau factor

Landau-Ginzburg equations low temperature physics

∞ solid state physics

spin glass

transition temperature

trapped magnetic fields

vector currents

vortices

YBCO superconductors

superconductor insulator superconductors

# USE SIS (superconductors)

### superconductors (materials)

DEF Materials that exhibit superconductivity under appropriate conditions.

# . superconductors (materials)

. . high temperature superconductors

. . . BSCCO superconductors

. . . YBCO superconductors

. . heavy fermion superconductors

. organic superconductors

Abrikosov theory

carrier mobility

critical current

cryogenic computer storage

cryotrons electron gas

energy storage

flux quantization fullerides heavy fermion systems Josephson effect pinning proximity effect (electricity) solid state devices squid (detectors) strontium oxides superconducting films thermodynamic coupling

## supercooling

undercooling

GS cooling

# . supercooling

aging (metallurgy) Aitken nuclei condensing convection clouds crystallization heat treatment mechanical properties nucleation quenching (cooling) supersaturation

# supercritical airfoils

GS airfoils

## . supercritical airfoils

. supercritical wings RT airfoil profiles

# supercritical flow

fluid flow

. supercritical flow

critical flow flow characteristics gas flow liquid flow multiphase flow orifice flow pipe flow pressure gradients

single-phase flow steady flow steam flow subcritical flow turbulent flow

unsteady flow

# supercritical fluids

RT fluid mechanics  $\infty \, fluids$ 

solubility

supercritical pressures

# supercritical pressures

pressure

supercritical pressures thermodynamic properties

thermophysical properties

supercritical pressures

critical pressure high pressure liquid phases supercritical fluids vapor phases vapor pressure

# supercritical wings

GS airfoils

. supercritical airfoils

... supercritical wings

. wings

# . supercritical wings

RT CL-600 challenger aircraft spanloader aircraft wing profiles ∞ winged vehicles

superfluid flow

# USE superfluidity

superfluidity

superfluid flow Bose-Einstein condensates RT compressible fluids

∞ fluids

incompressible fluids

Kelvin-Helmholtz instability liquid helium liquid helium 2 many body problem quantum statistics two fluid models viscosity vortices

superfortress aircraft ÚSE B-50 aircraft

## supergiant stars

celestial bodies

. stars

# . . supergiant stars

. . R Coronae Borealis stars

giant stars K stars M stars massive stars Mira variables subgiant stars

#### supergravity

gravitation theory GS

supergravity

broken symmetry

cosmology field theory (physics) gauge invariance gauge theory gravitinos gravitons group theory lie groups particle theory quantum theory relativity

supersymmetry theoretical physics unified field theory Yang-Mills theory

# superharmonics

harmonics GS

superharmonics

RT cycles frequencies Mach number

supersonic wind tunnels supersonics

## superheating

RT

GS heating

superheating

steam

# superheterodyne receivers

GS communication equipment

. radio receivers

. superheterodyne receivers

radio equipment

. radio receivers

. . superheterodyne receivers

receivers

. radio receivers

. superheterodyne receivers

beat frequencies heterodyning

# superhigh frequencies

(3 TO 30 GHZ) KU band SN S band X band frequencies

. radio frequencies

. . microwave frequencies

superhigh frequencies

C band centimeter waves unified S band VSAT (network)

## superhumps (astronomy)

(added October 1998) accretion disks

astronomical photometry binary stars

cataclysmic variables dwarf novae eclipsing binary stars stellar spectrophotometry

# superhybrid materials

DEF Composites of polymers, boron-aluminum, and titanium. GS

composite materials

superhybrid materials

. . graphite-epoxy composites boron-epoxy composites carbon fiber reinforced plastics fiber composites

hybrid composites  $\infty$  materials reinforcing fibers

superimposition (mathematics)

USE superposition (mathematics)

#### superlattices

Crystals grown by depositing semicon-DEF ductors in layers whose thickness is measured in atoms.

crystal lattices GS

superlattices

semiconductors (materials)

superlattices

RT 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

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

. stars

. . variable stars

. . . supernovae

. supernova 1987A

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 RT 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

RT balloon sounding meteorological balloons

# superrotation

DEF 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 MACH 5)

transonic aircraft supersonic aircraft GS

. A-5 aircraft

B-58 aircraft

	. B-70 aircraft				arragania duan
			supersonic combustion ramiet engines	рт	supersonic drag
	. Boeing 733 aircraft			RT	interference drag
	. D-558 aircraft		. internal combustion engines		wave drag
	. F-4 aircraft		gas turbine engines	aunara	onio flight
	. F-5 aircraft		jet engines		onic flight
	. F-8 aircraft		ramjet engines		caustic lines
	. F-14 aircraft		supersonic combustion		∞ flight
	. F-15 aircraft		ramjet engines		hypersonic flight
	. F-16 aircraft		turbine engines		jet lag
	. F-17 aircraft		gas turbine engines		Mach cones
	. F-22 aircraft		jet engines		missiles
	. F-100 aircraft		ramjet engines		rocket flight
	. F-101 aircraft		supersonic combustion		sonic booms
	. F-102 aircraft		ramjet engines		supersonics
	. F-104 aircraft	RT	combustion		transonic flight
	. F-106 aircraft		missiles		
	. F-111 aircraft		ramjet missiles		onic flow
	. Firebee 2 target drone aircraft		rocket-based combined-cycle engines		In aerodynamics, flow of a fluid over a
	. G-95/4 aircraft		∞ SCRAM		speeds greater than the acoustic veloc-
	. Jaguar aircraft		X-43 vehicle		in which the shock waves start at the
	. MiG aircraft				of the body.
	. Mirage aircraft		onic commercial air transport	GS	
	Mirage 3 aircraft	UF	SCAT		. supersonic flow
	. Nord 1500 aircraft	GS	commercial aircraft		supersonic jet flow
	. P-1154 aircraft		. supersonic commercial air	RT	aerodynamics
	. Saab 37 aircraft		transport		compressibility effects
	. SR-71 aircraft		. Boeing 2707 aircraft		compressible flow
	. supersonic transports		TU-144 aircraft		flow velocity
	CL-823 aircraft		supersonic aircraft		gas flow
	Concorde aircraft		. supersonic transports		Godunov method
	L-2000 aircraft		supersonic commercial air		hypersonic flow
	supersonic commercial air		transport		hypervelocity flow
	transport		Boeing 2707 aircraft		Mach cones
	Boeing 2707 aircraft		TU-144 aircraft		Prandtl-Meyer expansion
	TU-144 aircraft		10 111 anoran		secondary injection
	. T-38 aircraft	suners	onic compressors		shock waves
			Compressors in which supersonic ve-		transonic flow
	. TSR-2 aircraft		s imparted to the fluid relative to the rotor		
	. VJ-101 aircraft		the stator blades, or to both the rotor and		wedge flow wind tunnels
	. X-1 aircraft				wind tunnels
	. X-2 aircraft		ator blades, producing oblique shock	01100000	onia flavu inlata
	. X-3 aircraft		over the blades to obtain a high pressure	•	onic flow inlets
	. X-15 aircraft	rise.		USE	supersonic inlets
	. X-32 aircraft	GS	compressors		
RT :	∞ aircraft		supersonic compressors		onic flutter
	attack aircraft	RT	oblique shock waves	GS	vibration
	fighter aircraft		transonic compressors		. structural vibration
	hypersonic aircraft		turbocompressors		flutter
	jet aircraft				supersonic flutter
	passenger aircraft	supers	onic cruise aircraft research		self induced vibration
	reconnaissance aircraft	UF	SCAR program		supersonic flutter
	research aircraft	GS	programs	RT	missile vibration
0	∘ subsonic aircraft		. NASA programs		transonic flutter
	supersonic cruise aircraft research		supersonic cruise aircraft		
	supersonics		research	supers	onic heat transfer
	sweptback wings	RT ·	∞ aircraft	GS	transmission
	transport aircraft		supersonic aircraft		. heat transmission
	trapezoidal tail surfaces		supersonic transports		heat transfer
	variable cycle engines		The state of the s		aerodynamic heat transfer
	, ,	supers	onic diffusers		supersonic heat transfer
	variable stream control engines		Diffusers designed to reduce the ve-	RT	hypersonic heat transfer
cupore	onic airfoils		nd increase the pressure of fluid moving		supersonics
GS	airfoils	,	ersonic velocities.		
us	. supersonic airfoils	RT		supers	onic inlets
DT	sweepback		∞ diffusers	UF	supersonic flow inlets
RT	•		exhaust diffusers	٥.	transonic inlets
	sweptback tail surfaces		flow stability	GS	intake systems
	sweptback wings		vaneless diffusers	GO	. air intakes
	ania harradami larrana		varieless diliusers		supersonic inlets
	onic boundary layers	cupore	onic drag	RT	bypass ratio
GS	boundary layers	GS	aerodynamic characteristics	nı	hypersonic inlets
ОТ	. supersonic boundary layers	GS	. aerodynamic drag		inlet airframe configurations
RT	fluid flow		, ,		inlet flow
	laminar boundary layer		supersonic drag		
	supersonics		aerodynamic forces		internal compression inlets
	turbulent boundary layer		. aerodynamic drag		nose inlets
	two dimensional boundary layer		supersonic drag		side inlets
			dynamic characteristics		
	onic combustion		. drag		onic jet flow
GS	combustion		friction drag	GS	
	. supersonic combustion		aerodynamic drag		. jet flow
RT	engines		supersonic drag		supersonic jet flow
	fuel combustion		pressure drag		. supersonic flow
			supersonic drag		supersonic jet flow
supers	onic combustion ramjet engines		friction	RT	gas flow
UF	scramjet engines		. flow resistance		nozzle flow
	scramjets		friction drag		screech tones
GS	engines		aerodynamic drag		
	. air breathing engines		supersonic drag	supers	onic low altitude missile
	gas turbine engines		. skin friction	UF	SLAM
	jet engines		friction drag	GS	missiles
	ramjet engines		aerodynamic drag	as	. ramjet missiles
	iainjet engines		acrodynamic drag		. ranget missies

	supersonic low altitude missile		fluid dynamics	۰	∘ systems
	. surface to surface missiles		gas dynamics		_
ОТ	supersonic low altitude missile		aerodynamics	suppor UF	
RT	nuclear ramjet engines Pluto reactors	RT	supersonics aerothermodynamics	UF	mounts stands
	ramjet engines	n i	hypersonics	GS	supports
	Tamjet engines		Mach cones	ao	. pylons
supers	onic nozzles		superharmonics		. saddles (supports)
ĎEF	Converging diverging nozzles de-		supersonic aircraft		. tripods
signed t	to accelerate a fluid to supersonic speed.		supersonic boundary layers	RT	bearings
RT	coaxial nozzles		supersonic flight		carriages
	conical nozzles		supersonic heat transfer		chassis
	convergent-divergent nozzles		supersonic speed		foundations
	hypersonic nozzles ∞ nozzles		supersonic test apparatus		frames
	rocket nozzles			~	gimbals ∘ headers
	screech tones		ring theory	~	lugs
	sonic nozzles	USE	string theory		pivots
	transonic nozzles	ou mores	(mmatru)	0	o platforms
	variable stream control engines	GS	/mmetry symmetry		pylon mounting
	wind tunnel nozzles	40	. supersymmetry		racks (frames)
		RT	bosons		reinforcement (structures)
	onic speed		broken symmetry		shafts (machine elements)
SN GS	(BETWEEN MACH 1 AND 4. 9) rates (per time)		cosmology		struts
ao	. supersonic speed		fermions		substructures support interference
	velocity		field theory (physics)	~	sustaining
	. supersonic speed		gauge theory		trusses
RT	acoustic velocity		grand unified theory		
	high speed		gravitation theory	suppres	ssion
	hypersonic speed		group theory lie groups	USE	retarding
	hypersonics		particle theory		
	supersonics		quantum theory	suppre	
	transonic speed		string theory	GS	suppressors
supers	onic test apparatus		supergravity	RT	. echo suppressors absorbers (materials)
RT	hypersonic test apparatus		theoretical physics	n i	additives
	supersonics		unified field theory		attenuators
0	∞ test equipment				baffles
	wind tunnel apparatus	supine	position		circuit protection
		RT	acceleration protection		damping
	onic transports		head up tilt		infrared suppression
GS	supersonic aircraft		prone position		inhibitors
	. supersonic transports CL-823 aircraft		rest		insulation
	Concorde aircraft		sitting position tilt-table test		isolators
	L-2000 aircraft		tiit-table test		mufflers
	supersonic commercial air	suppler	monte		neutralizers noise reduction
	transport	GS	documents		retardants
	Boeing 2707 aircraft	40	. supplements		shielding
	TU-144 aircraft	RT	contracts		silencers
RT	cargo aircraft		extensions		squelch circuits
	commercial aircraft		indexes (documentation)		
	passenger aircraft		motion pictures		acoustic wave devices
	supersonic cruise aircraft research		records	UF	S-A-W devices
cupare	onic turbines		reports	RT	acoustic delay lines
UF	transonic turbines				bulk acoustic wave devices devices
GS.	turbomachinery	supplyi		~	electroacoustic transducers
	. turbines	RT	commerce		electroacoustics
	supersonic turbines		consumption		interdigital transducers
RT	gas turbine engines		demand (economics) filling		microsonics
	gas turbines		injection		signal processing
	rotor stator interactions		input		sound waves
			marketing		ultrasonic wave transducers
supers GS	onic wakes		output		line
us	wakes . supersonic wakes				cooling
RT	aircraft wakes	support	tinterference	GS	cooling . surface cooling
	hypersonic wakes	RT	antenna radiation patterns	RT	convective heat transfer
	nyporoome manoo	~	interference		evaporative cooling
supers	onic wind tunnels		supports		film cooling
GS	test facilities		vibration effects		radiant cooling
	. wind tunnels				radiative heat transfer
	supersonic wind tunnels		t systems	0	∘ surfaces
RT	blowdown wind tunnels	GS	support systems		sweat cooling
	hypersonic wind tunnels		. ground operational support system		temperature
	hypervelocity wind tunnels low density wind tunnels		. ground support systems	curtoco	cracks
	shock tunnels		. life support systems biopaks	UF	cracks
	slotted wind tunnels		closed ecological systems	GS	fractures (materials)
	subsonic wind tunnels		emergency life sustaining systems	as	. cracks
	superharmonics		AEPS		surface cracks
	transonic wind tunnels		portable life support systems		surface properties
			AEPS		. surface cracks
supers			IMLSS	RT	crack closure
DEF	Specifically, the study of aerodynamics		. decision support systems		crack geometry
	rsonic speeds.		. pilot support systems		crack initiation
GS	mechanics (physics)	RT	self sealing		crack propagation
	. fluid mechanics		services		edge cracks

	microcracks	metal finishing	GS	navigation
	solid surfaces	metal grinding		surface navigation
~	surfaces	metal polishing	RT	celestial navigation
surface	defects	metal spraying		dead reckoning
GS	defects	metal surfaces		Decca navigation
do	. surface defects	micromachining polishing		digital navigation hyperbolic navigation
	surface properties	protective coatings		inertial navigation
	. surface defects	shot peening		LORAC navigation system
RT	caustics (optics)	solid surfaces		loran
	crack initiation	sputtering		nautical charts
	crystal defects	∞ surfaces		navigation aids
	crystal dislocations	wear		radar navigation
	fatigue (materials)	austana maamatuu		radio navigation
	mechanical properties	Surface geometry     SN (USE OF A MORE SPECIFIC TERM IS		ships
~	point defects surfaces	RECOMMENDEDCONSULT THE TERMS	∞	surfaces
•	Surfaces	LISTED BELOW)		unmanned ground vehicles
surface	diffusion	RT concavity	surface	noise interactions
GS	diffusion	convexity Cosserat surfaces	RT	acoustic excitation
	. surface diffusion	flat surfaces		acoustic scattering
RT	adatoms	flatness		aeroacoustics
	molecular diffusion	geometry		aerodynamic noise
000	surfaces	Lambert surface		Ffowcs Williams-Hawkings equation
	thermal diffusion	lofting		rotor stator interactions
ourfood	distortion	planforms		turbulence
	distortion	shapes	surface	plasmon resonance
ao	. surface distortion	surface distortion		ed April 2004)
RT ∝	surface geometry	surface layers		A condition of resonance in which the
	surfaces	surface properties		tion of surface plasmon waves occurs at
	warpage	surface reactions		face of a dielectric with a highly reflec-
		surface roughness surface stability	tive meta	
surface	effect ships	surface stability ∞ surfaces	RT	plasmons
	Vessels using ground effect principle	o sundees		
	ring submerged rigid sidewalls (seal-	surface interactions		pressure
	sed for SES.	USE surface reactions	USE	pressure
UF GS	SES		curfaco	properties
us	surface vehicles . surface effect ships	surface ionization	UF	Bardeen approximation
	water vehicles	GS ionization	GS	surface properties
	. ships	. surface ionization		. adhesion
	surface effect ships	RT ionizers ∞ surfaces		stiction
RT	captured air bubble vehicles	∞ suriaces		. adsorptivity
				. adsorptivity
~	effects	surface layers		. coefficient of friction
~		surface layers  RT atmospheric stratification		. coefficient of friction . interfacial tension
	effects research vehicles surfaces			coefficient of friction interfacial tension spectral reflectance
~	effects research vehicles surfaces SWATH (ship)	RT atmospheric stratification		. coefficient of friction . interfacial tension . spectral reflectance . surface cracks
~	effects research vehicles surfaces SWATH (ship) vehicles	RT atmospheric stratification barrier layers boundary layer thickness boundary layers		coefficient of friction interfacial tension spectral reflectance surface cracks surface defects
~	effects research vehicles surfaces SWATH (ship)	RT atmospheric stratification barrier layers boundary layer thickness boundary layers crystal surfaces		coefficient of friction interfacial tension spectral reflectance surface cracks surface defects surface energy
«	effects research vehicles surfaces SWATH (ship) vehicles wing-in-ground effect vehicles	RT atmospheric stratification barrier layers boundary layer thickness boundary layers crystal surfaces ∞ layers		coefficient of friction interfacial tension spectral reflectance surface cracks surface defects surface energy surface roughness
« surface	effects research vehicles surfaces SWATH (ship) vehicles wing-in-ground effect vehicles emitting lasers	RT atmospheric stratification barrier layers boundary layer thickness boundary layers crystal surfaces  ∞ layers lunar surface		coefficient of friction interfacial tension spectral reflectance surface cracks surface defects surface energy surface roughness surface stability
surface (adde	effects research vehicles surfaces SWATH (ship) vehicles wing-in-ground effect vehicles emitting lasers and March 1992)	RT atmospheric stratification barrier layers boundary layer thickness boundary layers crystal surfaces ∞ layers lunar surface monomolecular films		coefficient of friction interfacial tension spectral reflectance surface cracks surface defects surface energy surface roughness surface stability surface temperature
surface (adde	effects research vehicles surfaces SWATH (ship) vehicles wing-in-ground effect vehicles emitting lasers	RT atmospheric stratification barrier layers boundary layer thickness boundary layers crystal surfaces ∞ layers lunar surface monomolecular films oxide films		coefficient of friction interfacial tension spectral reflectance surface cracks surface defects surface energy surface roughness surface stability
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surface (adde GS RT surface GS	reffects research vehicles research vehicles surfaces SWATH (ship) vehicles wing-in-ground effect vehicles  remitting lasers and March 1992) stimulated emission devices . lasers . surface emitting lasers laser arrays lasing light emitting diodes semiconductor lasers solid state lasers stimulated emission waveguide lasers  remergy surface properties . surface energy thermodynamic properties . surface energy activation energy electron energy energy interfacial energy interfacial tension	RT atmospheric stratification barrier layers boundary layer thickness boundary layers crystal surfaces	RT	coefficient of friction interfacial tension spectral reflectance surface cracks surface defects surface energy surface roughness surface stability surface temperature land surface temperature sea surface temperature will temperature (non-biological) will temperature absorptance albedo atomic force microscopy bidirectional reflectance coarseness coating coatings color contact potentials contact resistance corrosion Cosserat surfaces diffusion effervescence emissivity evanescence finishes
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planar structures surface properties ... Tomahawk missiles planetary surfaces surface stability . . fleet ballistic missiles profilometers coarseness Polaris A1 missile ∞ properties dynamic stability Polaris A2 missile reflectance interfacial tension ... Polaris A3 missile roughness motion stability Poseidon missiles . . . Subroc missile selenography static stability solid surfaces storage stability . . intercontinental ballistic missiles solid-solid interfaces ∞ surface geometry ... Atlas ICBM sorption .... Atlas D ICBM ∞ surfaces . . . . Atlas E ICBM surface geometry thermal stability Atlas F ICBM surface tension driven convection surface treatment surface temperature ... Minuteman ICBM GS surface properties ∞ surfaces MX missile textures surface temperature . . . Titan ICBM . . land surface temperature viscosity Titan 1 ICBM . . . . Titan 2 ICBM void ratio sea surface temperature ... skin temperature (non-biological) . . intermediate range ballistic missiles . . . Blue Streak missile wettability . wall temperature Surface Radiation Budget project temperature Jupiter missile (added October 2007) . surface temperature . . . polaris missiles . . land surface temperature DEF A 12-year project to produce and ar-. Polaris A1 missile chive a global data set of shortwave and long-. . sea surface temperature ... Polaris A2 missile wave Earth surface and top of the atmosphere . . skin temperature (non-biological) Polaris A3 missile parameters using International Satellite Cloud . wall temperature . . Lance missile Climatology Project (ISCCP) and Earth Radiacoarseness Mace missiles tion Budget Experiment (ERBE) data. The SRB geothermal anomalies Pershing missile data sets contain three hourly, daily, and monthly averages of surface longwave and ocean temperature . Regulus missile ∞ surfaces sergeant missiles shortwave radiative properties, cloud amount, temperature sensitive paints short range ballistic missiles and meteorological properties computed using thermoclines supersonic low altitude missile water temperature models V-1 missile UF SRB project RT air to surface missiles GS programs surface tension ballistic missiles USE interfacial tension . projects Harpoon missile Surface Radiation Budget ramjet missiles surface tension driven convection project ∞ rockets (added December 1995) data products RT ∞ surfaces convection Earth radiation budget surface tension driven convection long wave radiation surface to surface rockets . Marangoni convection radiative transfer GS rocket vehicles capillary flow remote sensing surface to surface rockets convective flow satellite observation . . Honest John rocket vehicle interfacial tension short wave radiation . . Little John rocket vehicle ∞ microgravity applications RT ∞ rockets oscillating flow surface reactions ∞ surfaces surface interactions surface properties RT surface treatment chemical reactions (added April 1990) surface to air missiles erosion ground-to-air missiles fluid-solid interactions surface treatment gas-liquid interactions GS missiles . surface finishing . surface to air missiles anodizing interfaces . . Blue Goose missile metal surfaces coating . . BOMARC missiles metal-water reactions corrosion prevention . . . BOMARC A missile spacecraft glow paint removal BOMARC B missile ∞ surface geometry surface layers Chaparral missile ∞ surfaces surface properties Hawk missile surfactants ∞ treatment Mauler missile vaporizing Nike missiles surface vehicles Nike-Ajax missile GS surface vehicles surface roughness DEF The deviation of the topography of an Nike-Hercules missile . aircraft carriers . automated transit vehicles actual surface from an ideal atomically smooth Nike-Zeus missile and planar surface. Patriot missile . . automated guideway transit GS roughness Redeye missile vehicles . surface roughness Sprint missile . boats surface properties Talos missile . . lifeboats surface roughness . . tartar missile . captured air bubble vehicles . terrier missile . cargo ships coarseness air to air missiles ... Savannah nuclear ship friction air to surface missiles . tanker ships lunar topography machining mechanical properties antiaircraft missiles antimissile missiles . electric hybrid vehicles Nike X systems . lunar surface vehicles profilometers runway conditions ∞ surface geometry . . lunar mobile laboratories ramjet missiles rockets . . lunar roving vehicles Sentinel system . . . Lunokhod lunar roving vehicles ∞ surfaces . . . manned lunar surface vehicles space weapons topography Spartan missile . magnetic levitation vehicles surface roughness effects ∞ surfaces . motor vehicles . . automated mixed traffic vehicles RT ∞ effects friction drag surface to surface missiles . . automobiles reflectance GS missiles . electric automobiles separated flow . surface to surface missiles . . electric motor vehicles ... electric automobiles . . antitank missiles speckle patterns . . . Shillelagh missiles . . tractors ∞ surfaces . tow missiles . . . crawler tractors

. . Corporal missile

. . . Navaho missile

. . cruise missiles

surface stability

GS stability

. surface stability

. . . tracked vehicles

. . trucks

. . . tank trucks

	. nuclear powered ships	Apollo Lunar Surface Experiments		zwitterions
	Savannah nuclear ship	Package		
	. roadway powered vehicles	area	surgeon	
	. roving vehicles	cold surfaces	GS	personnel
	lunar roving vehicles	control surfaces		. medical personnel
	Lunokhod lunar roving vehicles	Cosserat surfaces		surgeons
	manned lunar surface vehicles	crystal surfaces		flight surgeons
	Mars roving vehicles	Earth surface		
	Marsokhod Mars roving vehicles	EASEP	surgery	
	. satellite communications ships	electromagnetic surface waves	GS	medical science
	. sleds	elevators (control surfaces)		. surgery
	rocket propelled sleds	external surface currents		labyrinthectomy
	. surface effect ships	Fermi surfaces	RT	clinical medicine
	. SWATH (ship)	flaps (control surfaces)		heart implantation
	. tanks (combat vehicles)	flat surfaces	∞	operations
	. transporter	horizontal tail surfaces		skin grafts
	. unmanned ground vehicles	hot surfaces		transplantation
	. walking machines	interfaces		veterinary medicine
RT	amphibious vehicles	interfacial tension		
0	∘ bicycle	Lambert surface	surges	
	ground effect machines	liquid surfaces		Transient rises in power or pressure
	rail transportation	LSSM		a brief rise in the discharge pressure of
	rails	lunar surface		compressor. Used for transients
	ships	lunar surface vehicles	(surges).	
۰	surfaces	manned lunar surface vehicles	UF	transients (surges)
	underwater vehicles	Mars surface	RT	circuit protection
	urban transportation	Mars surface samples		fluid flow
0	• vehicles	menisci		overvoltage
	vehicular tracks	menisci metal surfaces		storm surges
	water vehicles	metal surfaces minimal surfaces		variations
				water hammer
surface	water	ocean surface	∞	waves
	All the waters on the surface of the	planetary surfaces		
	ncluding fresh and salt water, ice and	satellite surfaces	surgical	instruments
	icidding fresh and sait water, ice and	sizing (surface treatment)		medical equipment
snow.	water	solid surfaces		surgical instruments
GS	water	surface cooling	RT ∞	instruments
ОТ	. surface water	surface cracks		needles
RT	Earth resources	surface defects		
	ground water	surface diffusion	Surinam	1
	lakes	surface distortion		nations
	polynyas	surface effect ships	0.0	. Surinam
	ponds	surface energy	RT	Caribbean region
	rivers	surface finishing		Netherlands
	streams	∞ surface geometry		South America
0	surfaces	surface ionization		ocali / linonda
	water sampling	surface layers	surveilla	ance
		surface navigation		surveillance
	waves	surface properties	GO	. space surveillance (ground based)
SN	(EXCLUDES SURFACE RADIO WAVES)	surface reactions		. space surveillance (spaceborne)
GS	surface waves	surface roughness	RT	command and control
	capillary waves	surface roughness effects		conical scanning
	gravity waves	surface stability		crime
	baroclinic waves	surface temperature		detection
	ripples	surface to air missiles		Earth resources
	. electromagnetic surface waves	surface to surface missiles		forest fire detection
	. evanescent waves	surface to surface rockets		
	. Sommerfeld waves	surface vehicles		ice mapping ice reporting
RT	bow waves	surface water		inspection
	cnoidal waves	surface waves		observation
	crustal fractures	sweptback tail surfaces		panoramic scanning
	elastic waves	T tail surfaces		
	internal waves	tabs (control surfaces)		radar scanning
	lee waves	tail surfaces		reconnaissance
	liquid surfaces			scanning
	liquid surfaces Love waves	tail surfaces		scanning situational awareness
	liquid surfaces	tail surfaces Townsend avalanche trapezoidal tail surfaces		scanning situational awareness target acquisition
	liquid surfaces Love waves	tail surfaces Townsend avalanche trapezoidal tail surfaces two dimensional bodies		scanning situational awareness target acquisition target recognition
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	liquid surfaces Love waves microsonics P waves S waves sea roughness seismic waves splashing surfaces tropospheric waves tsunami waves water currents water waves	tail surfaces Townsend avalanche trapezoidal tail surfaces two dimensional bodies under surface blowing underwater to surface missiles upper surface blowing upper surface blown flaps Venus surface wear  surfactants DEF A material that improves the emulsifying, dispersing, wetting, or other surface-	<b>surveilla</b> GS	scanning situational awareness target acquisition target recognition targets visual observation  ance radar radar . surveillance radar . informe surveillance radar . Cobra Dane (radar) . multistatic radar air traffic control airport surface detection equipment
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surface USE ∞ <b>surface</b> SN	liquid surfaces Love waves microsonics P waves S waves sea roughness seismic waves splashing surfaces tropospheric waves tsunami waves water currents water waves water waves water waves water waves (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)	tail surfaces Townsend avalanche trapezoidal tail surfaces two dimensional bodies under surface blowing underwater to surface missiles upper surface blowing upper surface blown flaps Venus surface wear  surfactants  DEF A material that improves the emulsify- ing, dispersing, wetting, or other surface- modifying properties of liquids. Used for surface- active agents.  UF surface-active agents RT admixtures ∞ agents detergents hydrophobicity	<b>surveilla</b> GS RT	scanning situational awareness target acquisition target recognition targets visual observation  ance radar radar . surveillance radar airborne surveillance radar Cobra Dane (radar) . multistatic radar air traffic control airport surface detection equipment coherent radar continuous wave radar digital radar systems Doppler radar meteorological radar pulse radar radar approach control
surface USE ∞ <b>surface</b> SN	liquid surfaces Love waves microsonics P waves S waves sea roughness seismic waves splashing ourfaces tropospheric waves tsunami waves water currents water waves water waves water waves cactive agents surfactants  98 (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) curved surfaces	tail surfaces Townsend avalanche trapezoidal tail surfaces two dimensional bodies under surface blowing underwater to surface missiles upper surface blowing 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	<b>surveilla</b> GS RT	scanning situational awareness target acquisition target recognition targets visual observation  ance radar radar . surveillance radar airborne surveillance radar Tobra Dane (radar) . multistatic radar 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
surface USE ∞ surface SN UF	liquid surfaces Love waves microsonics P waves S waves sea roughness seismic waves splashing o surfaces tropospheric waves tsunami waves water currents water waves waves water durrents water waves cactive agents surfactants  es (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) curved surfaces lifting 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 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	<b>surveilla</b> GS RT	scanning situational awareness target acquisition target recognition targets visual observation  ance radar radar . airborne surveillance radar . Cobra Dane (radar) . multistatic radar 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
surface USE ∞ surface SN UF	liquid surfaces Love waves microsonics P waves S waves sea roughness seismic waves splashing surfaces tropospheric waves tsunami waves water currents water waves water currents surfactants  S  CUSE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) curved surfaces lifting surfaces air to surface missiles	tail surfaces Townsend avalanche trapezoidal tail surfaces two dimensional bodies under surface blowing underwater to surface missiles upper surface blowing upper surface blowin 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	<b>surveilla</b> GS RT	scanning situational awareness target acquisition target recognition targets visual observation  ance radar radar . airborne surveillance radar . cobra Dane (radar) . multistatic radar 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

	synthetic aperture radar tracking radar	. space lunar Sun			loran mapping maps
surveyir USE	ng surveys		urveyor 6 lunar probe entaur launch vehicle		photogrammetry position (location)
Survey	or 1 lunar probe	Surveyor 7 luna	r nrohe		reconnaissance soil mapping
	lunar spacecraft	GS lunar sp		∞	statistics
	. lunar probes	. lunar p			
	Surveyor lunar probes	Surve	eyor lunar probes	survival	
	Surveyor 1 lunar probe		veyor 7 lunar probe	RT	aircraft survivability
	soft landing spacecraft		ding spacecraft		civil defense
	. Surveyor lunar probes		or lunar probes		closed ecological systems
	Surveyor 1 lunar probe unmanned spacecraft		eyor 7 lunar probe ed spacecraft		desert adaptation
	. space probes	. space			kits life support systems
	lunar probes	lunar			lunar shelters
	Surveyor lunar probes		veyor lunar probes		shelters
	Surveyor 1 lunar probe		rveyor 7 lunar probe		spacecraft survivability
RT	Atlas Centaur launch vehicle	RT Atlas Ce	entaur launch vehicle		
Curvou	or 2 luner probe	Surveyor lunar	nrohes		equipment
	or 2 lunar probe lunar spacecraft	GS lunar sp		RI	AEPS
ao	. lunar probes	. lunar p			aircraft survivability Assured Crew Return Vehicle
	Surveyor lunar probes		eyor lunar probes		consumables (spacecrew supplies)
	Surveyor 2 lunar probe		veyor 1 lunar probe		emergency life sustaining systems
	soft landing spacecraft		veyor 2 lunar probe	∞	equipment
	. Surveyor lunar probes		veyor 3 lunar probe		lifeboats
	Surveyor 2 lunar probe		veyor 4 lunar probe		onboard equipment
	unmanned spacecraft		veyor 5 lunar probe		oxygen supply equipment
	. space probes		veyor 6 lunar probe		rafts
	lunar probes		veyor 7 lunar probe		
	Surveyor lunar probes Surveyor 2 lunar probe		ding spacecraft yor lunar probes		ibility (magnetism)
RT	Atlas Centaur launch vehicle		eyor 1 lunar probe	USE	magnetic permeability
	7 mas Somaan naamon voimois		eyor 2 lunar probe	euenone	ding (hanging)
Survey	or 3 lunar probe		eyor 3 lunar probe		suspending (hanging)
GS	lunar spacecraft	Surve	eyor 4 lunar probe	GG	. hindlimb suspension
	. lunar probes		eyor 5 lunar probe		. magnetic suspension
	Surveyor lunar probes		eyor 6 lunar probe	RT	gyroscope fluids
	Surveyor 3 lunar probe		eyor 7 lunar probe		mounting
	soft landing spacecraft		ed spacecraft		suspension systems (vehicles)
	. Surveyor lunar probes Surveyor 3 lunar probe	. space lunar		∞	suspensions
	unmanned spacecraft		veyor lunar probes		Proceedings of the Control of the Co
	. space probes		rveyor 1 lunar probe		ding (mixing)
	lunar probes		rveyor 2 lunar probe	GS	mixing . suspending (mixing)
	Surveyor lunar probes	Su	rveyor 3 lunar probe	RT	aeration
	Surveyor 3 lunar probe		ırveyor 4 lunar probe		agitation
RT	Atlas Centaur launch vehicle		rveyor 5 lunar probe		colloiding
C	ar 4 lunar araba		rveyor 6 lunar probe		dispersing
	or 4 lunar probe lunar spacecraft	50	rveyor 7 lunar probe		dispersions
ao	. lunar probes	Surveyor project	t .		entrainment
	Surveyor lunar probes	GS program			ferrofluids
	Surveyor 4 lunar probe		programs		homogenizing
	soft landing spacecraft	Surv	eyor project		shaking stirring
	. Surveyor lunar probes		programs	oc	suspensions
	Surveyor 4 lunar probe		A space programs		daspondiono
	unmanned spacecraft		veyor project	suspens	sion systems (vehicles)
	. space probes	. project			bearings
	lunar probes Surveyor lunar probes		eyor project programs		flotation
	Surveyor 4 lunar probes		A space programs		levitation
RT	Atlas Centaur launch vehicle		vevor project		magnetic levitation vehicles
			entaur launch vehicle		riding quality
Survey	or 5 lunar probe	Centaur	project		shock absorbers springs (elastic)
GS	lunar spacecraft	lunar lar			steering
	. lunar probes	lunar pr			suspending (hanging)
	Surveyor lunar probes		acecraft	∞	suspensions
	Surveyor 5 lunar probe	soft land			systems
	soft landing spacecraft . Surveyor lunar probes	Son land	ding spacecraft		toroidal wheels
	Surveyor 5 lunar probe	surveys			undercarriages
	unmanned spacecraft	UF surveyir	ng		vehicle wheels
	. space probes	GS surveys			vehicular tracks
	lunar probes	. geodet	tic surveys		vibration isolators
	Surveyor lunar probes		ical surveys	∞ suspens	eione
	Surveyor 5 lunar probe		rveys (astronomy)	∞ suspens	(USE OF A MORE SPECIFIC TERM IS
RT	Atlas Centaur launch vehicle	. wage s		OIV	RECOMMENDEDCONSULT THE TERMS
Surve	or 6 lunar proba	RT accurac		חרר	LISTED BELOW)
	or 6 lunar probe lunar spacecraft	construc ∞ cross se			A two-phase system consisting of a vided solid dispersed in a solid, liquid, or
as	. lunar probes	∞ cross se		gas.	naca sona aispersea iri a sona, nyaid, 01
	Surveyor lunar probes		inagement	gas. RT	Brownian movements
	Surveyor 6 lunar probe		elevation)	***	dispersions
	soft landing spacecraft	explorat	•		ferrofluids
	. Surveyor lunar probes		overviews		solid suspensions
	Surveyor 6 lunar probe	geometi	У		suspending (hanging)
	unmanned spacecraft	layouts			suspending (mixing)

suspension systems (vehicles) UF Small Water Plane Area Twin Hull wing loading GS surface vehicles Susquehanna River Basin (MD-NY-PA) SWATH (ship) sweep frequency GS landforms water vehicles UF electron sweeping . structural basins GS frequencies . ships . . river basins . SWATH (ship) . sweep frequency ... Susquehanna River Basin captured air bubble vehicles carrier frequencies (MD-NY-PA) hulls (structures) frequency analyzers RT Maryland surface effect ships frequency scanning New York frequency synchronization Pennsylvania oscilloscopes rivers television transmission swath width streams DEF The width of the area covered by an valleys sweepback imaging sensor determined by the geometry of sweepback angles the instrument. sustainer rocket engines GS geometry agricultural aircraft Rocket engines that maintain the ve-. Euclidean geometry flight paths locity of the rocket once it has achieved its . . angles (geometry) remote sensing programmed velocity by use of boosters or other ... sweep angle satellite observation engines. GS engines .... sweepback . . . . leading edge sweep Swaziland . rocket engines RT supersonic airfoils nations GS . sustainer rocket engines Swaziland booster rocket engines sweepback angles Africa RT ducted rocket engines USE sweepback Republic of South Africa electric rocket engines swelling RT distortion electrostatic engines sweat electrothermal engines GS body fluids expansion hybrid propellant rocket engines . sweat internal combustion engines growth secretions increasing ion engines . sweat launch vehicles inflating RT perspiration liquid air cycle engines spreading liquid propellant rocket engines sweat cooling nuclear engine for rocket vehicles swept forward wings DEF A process by which a body having a porous surface is cooled by forced flow of coolnuclear rocket engines GS airfoils restartable rocket engines . wings ant through the surface from the interior. Used for transpiration cooling. . . swept wings solid propellant rocket engines ... swept forward wings stage separation transpiration cooling ∞ sustaining . trapezoidal wings cooling GS planforms turborocket engines evaporative cooling . wing planforms TX-354 engine . sweat cooling . . swept forward wings RT film cooling . . trapezoidal wings ∞ sustaining (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) liquid cooling RT sweptback wings SN surface cooling variable sweep wings X-29 aircraft life support systems sweating supports swept wings USE perspiration sustainer rocket engines cranked wings diamond wings Sweden swaging tapered wings GS nations cold working RT GS airfoils Sweden metal working . wings Europe stamping .. swept wings JAS-39 aircraft ... swept forward wings Scandinavia swallowing . . . trapezoidal wings Swedish space program RT drinking . . . sweptback wings eating . . . . arrow wings ingestion (biology) Swedish space program . . . . delta wings GS programs . . . trapezoidal wings swamps . space programs RT fixed wings USE marshlands . . European space programs spanloader aircraft . Swedish space program unswept wings Swan bands RT Sweden wing planforms spectra GS spectral bands sweep angle sweptback tail surfaces . Swan bands GS geometry GS assemblies RT ∞ bands . Euclidean geometry . tail assemblies carbon compounds . . angles (geometry) . sweptback tail surfaces chemical bonds ... sweep angle planforms emission spectra ... sweepback . sweptback tail surfaces molecular spectra . . . . leading edge sweep tail surfaces aerodynamic stalling . sweptback tail surfaces swarming angle of attack control surfaces RT bees boundary layer separation hypersonic aircraft ∞ motion Mach number rudders stabilizers (fluid dynamics) SWAS (satellite) sweep circuits supersonic airfoils (added November 2000) GS circuits Submillimeter Wave Astronomy ∞ surfaces sweep circuits T tail surfaces Satellite RT frequency scanning trapezoidal tail surfaces oscilloscopes swash sampling sweptback wings splashing USE GS airfoils SWATH (ship) sweep effect . wings DEF Small waterplane area twin hull con-RT ∞ effects . . swept wings cept extension of hydrofoils for improving sea-... sweptback wings force distribution worthiness and speed. Used for Small Water-. . . . arrow wings lift

∞ loading

. . . . delta wings

plane Area Twin Hull.

	trapezoidal wings		centrifuging		voltage regulators
	planforms		dispersing		voltago rogalatoro
	. wing planforms		foaming	switchin	g elements
	sweptback wings		mixing		switching circuits
	arrow wings	~	separation	002	omiciming chround
	delta wings	~	shaking	switchir	ng theory
	trapezoidal wings		stirring		Boolean algebra
RT	hypersonic aircraft		Stirring		branching (mathematics)
n i	supersonic aircraft				communication theory
	•	. ,.			commutation
	supersonic airfoils	swirling			logic design
	swept forward wings	USE	turbulent wakes		
	variable sweep wings				network synthesis packet switching
Could al	a a musta mu				
	servatory	Swiss s	space program		sequencing
	ed August 2005)	GS	programs	~	theories
	A MIDEX (Medium-class Explorer) pro-		. space programs		topology
	tellite launched on November 20, 2004		European space programs	Switzerl	land
	observation of gamma ray bursts and		Swiss space program		
	erglows in gamma ray, x ray, ultraviolet,	RT	Switzerland	GS	nations . Switzerland
	cal wavelengths.			DT	
GS	artificial satellites			RT	Alps Mountains (Europe)
	. scientific satellites	switche	s		Europe
	astronomical satellites		switches		Swiss space program
	Swift observatory		. capacitance switches		
	observatories		. electric relays	swivels	
	. astronomical observatories		. electric switches	RT	bearings
	astronomical satellites		cryotrons		gimbals
	Swift observatory				hinges
RT	afterglows		stepping switches		hooks
	gamma ray astronomy		thermostats		joints (junctions)
	gamma ray bursts		vacuum arc switches		pivots
	gamma ray sources (astronomy)		. pressure switches		r · · ·
			. switching circuits	syenite	
	gamma ray telescopes		fluid switching elements	•	rocks
	spaceborne astronomy		. trigatrons	ao	. igneous rocks
	spaceborne telescopes	RT	circuit breakers		syenite
	spectral counterparts (astronomy)		dropouts	DT	•
	ultraviolet telescopes		echo suppressors	RT	soils
	x ray telescopes		electric connectors		trachyte
			electric contacts		
swimmi	ng			syllable	
RT	physical exercise		interruption	RT	messages
	physical fitness		selectors		psycholinguistics
	, ,		switching		semantics
swimmi	ng pool reactors				signal transmission
GS	nuclear reactors				
GS	nuclear reactors	switchi	ng	symbios	sis
GS	. liquid cooled reactors	<b>switchi</b> GS	ng switching	symbios	
GS	. liquid cooled reactors water cooled reactors		switching	DEF	The intimate living together of two or
	. liquid cooled reactors water cooled reactors swimming pool reactors		switching . beam switching	DEF ganisms	The intimate living together of two or of different species, for mutual benefit
	. liquid cooled reactors water cooled reactors		switching . beam switching . magnetic switching	DEF	The intimate living together of two or of different species, for mutual benefit ecology
RT ∝	. liquid cooled reactors water cooled reactors swimming pool reactors		switching . beam switching . magnetic switching . microwave switching	DEF ganisms	The intimate living together of two or of different species, for mutual benefit
RT ∞	. liquid cooled reactors water cooled reactors swimming pool reactors reactors		switching beam switching magnetic switching microwave switching optical switching	DEF ganisms RT	The intimate living together of two or of different species, for mutual benefit ecology lichens
RT ∞ swine SN	. liquid cooled reactors water cooled reactors swimming pool reactors reactors  (EXCLUDES GUINEA PIGS)	GS	switching beam switching magnetic switching microwave switching optical switching packet switching	DEF ganisms RT symbiot	The intimate living together of two or of different species, for mutual benefit ecology lichens
RT ∝ swine SN UF	. liquid cooled reactors water cooled reactors swimming pool reactors reactors  (EXCLUDES GUINEA PIGS) pigs (swine)		switching beam switching magnetic switching microwave switching optical switching packet switching code division multiple access	DEF ganisms RT symbiot	The intimate living together of two or of different species, for mutual benefit ecology lichens  tic stars celestial bodies
RT ∞ swine SN	. liquid cooled reactors . water cooled reactors swimming pool reactors reactors  (EXCLUDES GUINEA PIGS) pigs (swine) animals	GS	switching beam switching magnetic switching microwave switching optical switching packet switching code division multiple access interruption	DEF ganisms RT symbiot	The intimate living together of two or of different species, for mutual benefit ecology lichens  tic stars celestial bodies . stars
RT ∝ swine SN UF	. liquid cooled reactors water cooled reactors swimming pool reactors reactors  (EXCLUDES GUINEA PIGS) pigs (swine) animals . vertebrates	GS	switching beam switching magnetic switching optical switching packet switching packet switching code division multiple access interruption sequencing	DEF ganisms RT symbiot	The intimate living together of two or of different species, for mutual benefit ecology lichens  tic stars celestial bodies . stars double stars
RT ∝ swine SN UF	. liquid cooled reactors . water cooled reactors swimming pool reactors reactors  (EXCLUDES GUINEA PIGS) pigs (swine) animals	GS	switching beam switching magnetic switching microwave switching optical switching packet switching code division multiple access interruption	DEF ganisms RT symbiot	The intimate living together of two or of different species, for mutual benefit ecology lichens  tic stars celestial bodies . stars
RT ∞ swine SN UF GS	. liquid cooled reactors water cooled reactors swimming pool reactors reactors  (EXCLUDES GUINEA PIGS) pigs (swine) animals vertebrates mammals swine	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 ganisms RT symbiot	The intimate living together of two or of different species, for mutual benefit ecology lichens  tic stars celestial bodies . stars . double stars binary stars symbiotic stars
RT ∝ swine SN UF	. liquid cooled reactors . water cooled reactors swimming pool reactors reactors  (EXCLUDES GUINEA PIGS) pigs (swine) animals . vertebrates . mammals swine grazing	GS	switching beam switching magnetic switching optical switching optical switching packet switching code division multiple access interruption sequencing step recovery diodes	DEF ganisms RT symbiot	The intimate living together of two or of different species, for mutual benefit ecology lichens tic stars celestial bodies . stars double stars binary stars
RT ∞ swine SN UF GS	. liquid cooled reactors water cooled reactors swimming pool reactors reactors  (EXCLUDES GUINEA PIGS) pigs (swine) animals vertebrates mammals swine	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 ganisms RT symbiot	The intimate living together of two or of different species, for mutual benefit ecology lichens  tic stars celestial bodies . stars . double stars binary stars symbiotic stars
RT ∞ swine SN UF GS	. liquid cooled reactors . water cooled reactors swimming pool reactors reactors  (EXCLUDES GUINEA PIGS) pigs (swine) animals . vertebrates . mammals swine grazing	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 ganisms RT symbiot	The intimate living together of two or of different species, for mutual benefit ecology lichens  tic stars celestial bodies . stars double stars binary stars symbiotic stars . peculiar stars
RT « swine SN UF GS	. liquid cooled reactors water cooled reactors swimming pool reactors reactors  (EXCLUDES GUINEA PIGS) pigs (swine) animals . vertebrates . mammals swine grazing livestock	GS RT	switching beam switching magnetic switching oricrowave switching optical switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access	DEF ganisms RT symbiot	The intimate living together of two or of different species, for mutual benefit ecology lichens tic stars celestial bodies . stars double stars binary stars symbiotic stars peculiar stars peculiar stars symbiotic stars symbiotic stars variable stars . variable stars
RT of swine SN UF GS	. liquid cooled reactors water cooled reactors swimming pool reactors reactors  (EXCLUDES GUINEA PIGS) pigs (swine) animals . vertebrates mammals swine grazing livestock ail assemblies	GS RT switchin	switching beam switching magnetic switching optical switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access	DEF ganisms RT symbiot GS	The intimate living together of two or of different species, for mutual benefit ecology lichens  tic stars celestial bodies . stars binary stars symbiotic stars . peculiar stars symbiotic stars . variable stars . variable stars symbiotic stars
RT « swine SN UF GS	. liquid cooled reactors water cooled reactors swimming pool reactors reactors  (EXCLUDES GUINEA PIGS) pigs (swine) animals . vertebrates mammals swine grazing livestock  ail assemblies assemblies	GS RT	switching beam switching magnetic switching microwave switching optical switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access	DEF ganisms RT symbiot GS	The intimate living together of two or 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
RT of swine SN UF GS	. liquid cooled reactors . water cooled reactors swimming pool reactors reactors  (EXCLUDES GUINEA PIGS) pigs (swine) animals . vertebrates . mammals swine grazing livestock all assemblies assemblies . tail assemblies	GS RT switchin 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 ganisms RT symbiot GS	The intimate living together of two or 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
RT × swine SN UF GS RT swing ta	. liquid cooled reactors water cooled reactors swimming pool reactors reactors  (EXCLUDES GUINEA PIGS) pigs (swine) animals . vertebrates mammals swine grazing livestock  all assemblies assemblies . tail assemblies swing tail assemblies	GS RT switchin	switching  beam switching  magnetic switching  optical switching  optical switching  packet switching  code division multiple access interruption  sequencing  step recovery diodes  switches  time division multiple access	DEF ganisms RT symbiot GS	The intimate living together of two or of different species, for mutual benefit ecology lichens  tic stars celestial bodies stars double stars binary stars speculiar stars speculiar stars symbiotic stars variable stars symbiotic stars symbiotic stars especific stars absorption spectra eclipsing binary stars emission spectra
RT of swine SN UF GS	. liquid cooled reactors water cooled reactors swimming pool reactors reactors  (EXCLUDES GUINEA PIGS) pigs (swine) animals . vertebrates . mammals swine grazing livestock ail assemblies assemblies . tail assemblies . swing tail assemblies afterbodies	GS RT switchin 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	DEF ganisms RT symbiot GS	The intimate living together of two or of different species, for mutual benefit ecology lichens  tic stars celestial bodies . stars binary stars symbiotic stars peculiar stars variable stars variable stars absorption spectra eclipsing binary stars emission spectra flare stars
RT × swine SN UF GS RT swing ta	. liquid cooled reactors water cooled reactors swimming pool reactors reactors  (EXCLUDES GUINEA PIGS) pigs (swine) animals . vertebrates mammals swine grazing livestock  sil assemblies assemblies . tail assemblies afterbodies aircraft parts	GS RT switchin 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 ganisms RT symbiot GS	The intimate living together of two or of different species, for mutual benefit ecology lichens  tic stars celestial bodies . stars binary stars symbiotic stars . peculiar stars . variable stars . variable stars absorption spectra eclipsing binary stars emission spectra flare stars M stars
RT × swine SN UF GS RT swing ta	. liquid cooled reactors water cooled reactors swimming pool reactors reactors  (EXCLUDES GUINEA PIGS) pigs (swine) animals . vertebrates . mammals swine grazing livestock ail assemblies assemblies . tail assemblies . swing tail assemblies afterbodies	GS RT switchin UF	switching beam switching magnetic switching microwave switching packet switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access  mg circuits electronic switches switching elements circuits switching circuits fill switching elements switches	DEF ganisms RT symbiot GS	The intimate living together of two or 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
RT « swine SN UF GS  RT  swing ta GS	. liquid cooled reactors water cooled reactors swimming pool reactors reactors  (EXCLUDES GUINEA PIGS) pigs (swine) animals . vertebrates mammals swine grazing livestock  ail assemblies assemblies . tail assemblies afterbodies aircraft parts aircraft structures	GS RT switchin UF	switching beam switching magnetic switching optical 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 fluid switching elements switches switching circuits switching circuits	DEF ganisms RT symbiot GS	The intimate living together of two or of different species, for mutual benefit ecology lichens  tic stars celestial bodies stars double stars binary stars speculiar stars speculiar stars symbiotic stars symbiotic stars symbiotic stars suriable stars suriable stars dispersion spectra eclipsing binary stars emission spectra flare stars M stars novae stellar envelopes
Swine SN UF GS RT  swing ta GS RT	. liquid cooled reactors water cooled reactors swimming pool reactors reactors  (EXCLUDES GUINEA PIGS) pigs (swine) animals . vertebrates mammals swine grazing livestock  ail assemblies assemblies . tail assemblies swing tail assemblies afterbodies aircraft parts aircraft structures	GS RT switchin UF GS	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 fluid switching elements switching switching circuits switching circuits switching circuits switching circuits switching circuits fluid switching elements	DEF ganisms RT symbiot GS	The intimate living together of two or of different species, for mutual benefit ecology lichens  tic stars celestial bodies stars double stars binary stars binary stars peculiar stars symbiotic stars symbiotic stars susymbiotic stars susymbiotic stars susymbiotic stars susymbiotic stars susymbiotic stars susymbiotic stars absorption spectra eclipsing binary stars emission spectra flare stars M stars novae stellar envelopes stellar mass accretion
RT « swine SN UF GS  RT  swing ta GS	. liquid cooled reactors water cooled reactors swimming pool reactors reactors  (EXCLUDES GUINEA PIGS) pigs (swine) animals . vertebrates . mammals swine grazing livestock ail assemblies assemblies assemblies tail assemblies swing tail assemblies afterbodies aircraft parts aircraft structures  rings airfoils	GS RT switchin UF GS	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 fluid switching elements switches switching circuits switching circuits fluid switching elements switches switching circuits fluid switching elements	DEF ganisms RT symbiot GS	The intimate living together of two or 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
Swine SN UF GS RT  swing ta GS RT	. liquid cooled reactors water cooled reactors swimming pool reactors reactors  (EXCLUDES GUINEA PIGS) pigs (swine) animals . vertebrates mammals swine grazing livestock  ail assemblies assemblies . tail assemblies swing tail assemblies afterbodies aircraft parts aircraft structures	GS RT switchin UF 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	DEF ganisms RT symbiot GS	The intimate living together of two or of different species, for mutual benefit ecology lichens  tic stars celestial bodies stars double stars binary stars binary stars peculiar stars symbiotic stars symbiotic stars susymbiotic stars susymbiotic stars susymbiotic stars susymbiotic stars susymbiotic stars susymbiotic stars absorption spectra eclipsing binary stars emission spectra flare stars M stars novae stellar envelopes stellar mass accretion
Swine SN UF GS RT  swing ta GS RT	. liquid cooled reactors water cooled reactors swimming pool reactors reactors  (EXCLUDES GUINEA PIGS) pigs (swine) animals . vertebrates . mammals swine grazing livestock ail assemblies assemblies assemblies tail assemblies swing tail assemblies afterbodies aircraft parts aircraft structures  rings airfoils	GS RT switchin UF GS	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 fluid switching elements switches switching circuits switching circuits fluid switching elements switches switching circuits fluid switching elements	DEF ganisms RT symbiot GS	The intimate living together of two or 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
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Swine SN UF GS RT  swing ta GS RT	. liquid cooled reactors water cooled reactors swimming pool reactors reactors  (EXCLUDES GUINEA PIGS) pigs (swine) animals . vertebrates mammals swine grazing livestock  all assemblies assemblies . tail assemblies afterbodies aircraft parts aircraft structures  vings . wings . wings . swing wings aircraft parts	GS RT switchin UF GS	switching beam switching magnetic switching optical 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 switching circuits . switching circuits . switching circuits . fluid switching elements switching circuits . fluid switching elements ARPA computer network capacitance switches cascode devices circuit breakers	DEF ganisms RT symbiot GS	The intimate living together of two or of different species, for mutual benefit ecology lichens  tic stars celestial bodies stars double stars binary stars speculiar stars speculiar stars symbiotic stars susymbiotic stars susymbiotic stars susymbiotic stars susymbiotic stars susymbiotic stars susymbiotic stars subsorption spectra celipsing binary stars emission spectra flare stars M stars novae stellar envelopes stellar mass accretion stellar spectra stellar spectra stellar temperature
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## symmetrical bodies

RT abbreviations . Symphonie satellites ... Synchronous Communications alphabets Satellite Proj Arcomsat broadcasting character recognition . space programs ∞ codes European space programs . . NASA space programs ... Synchronous Communications French satellites coding international cooperation Satellite Proj color radio transmission communication satellites data processing high level languages satellite television twenty-four hour orbits languages synchronous satellites synchronous detectors legibility telephony ∞ mathematics USE correlators symposia message processing USE conferences Synchronous Earth Observatory satellite messages SEOS mnemonics nomenclatures symptomology artificial satellites medical science GS . meteorological satellites perception reading symptomology ... Synchronous Earth Observatory diseases satellite semantics signs and symptoms SMS<sub>1</sub> ∞ sianals ... SMS 2 units of measurement symptoms . synchronous satellites visibility USF signs and symptoms . . Synchronous Earth Observatory satellite symmetrical bodies synapses ... SMS 1 GS symmetrical bodies acetylcholine . axisymmetric bodies .. SMS 2 nerves early warning systems . power law bodies nervous system . bodies of revolution Landsat satellites neuromuscular transmission NASA programs . . conical bodies neurons programs satellite observation . . . slender cones neurotransmitters . . cylindrical bodies syncoders SEASAT satellites . rotating cylinders Synchronous Meteorological Satellite . . parabolic bodies synchrocyclotrons technology utilization power law bodies GS particle accelerators . . spheres cyclic accelerators Synchronous Meteorological Satellite . celestial sphere ... synchrocyclotrons UF SMS concentric spheres . cyclotrons GS artificial satellites ... falling spheres . synchrocyclotrons . meteorological satellites ... Poincare spheres bevatron . . Synchronous Meteorological . rotating spheres synchrotrons Satellite ... SMS 1 . ellipsoids synchronism ... SMS 2 . lenticular bodies The relationship between two or more . synchronous satellites . streamlined bodies periodic quantities of the same frequency when . . Synchronous Meteorological . fairings the phase difference between them is zero or Satellite axes of rotation constant at a predetermined value. Used for ... SMS 1 blunt bodies beat and synchronization. ... SMS 2 ∞ bodies beat cones communication satellites synchronization finned bodies Synchronous Earth Observatory synchronism satellite flared bodies bit synchronization geoids frequency synchronization synchronous motors ogives time synchronization slender bodies GS electromechanical devices coincidence circuits
Dining Philosophers Problem
phase detectors . electric motors spinning unguided rocket trajectory . synchronous motors motors symmetry stroboscopes axisymmetry . electric motors synchronizers GS symmetry . synchronous motors synchrophasing asynchronous motors . broken symmetry time . . CP violation induction motors time measurement . chirality synchronous platforms supersymmetry synchronization antisymmetry DEF Space platforms whose rotation is syn-USE synchronism chronized with that of Earth. Used for geostationary platforms. congruences synchronized oscillators continuity (mathematics) geostationary platforms GS oscillators GS space platforms eccentricity synchronized oscillators synchronous platforms enantiomers frequency synchronization communication satellites geometry grand unified theory phase locked systems geosynchronous orbits synchroscopes ∞ platforms isotropism synchronous satellites quantiles synchronizers shapes heliostats synchronous satellites pulse radar Equatorial west-to-east satellites orbitsymmetry breaking servomotors ing the Earth at an altitude of approximately USE broken symmetry synchronism 35,900 kilometers, at which they make one revolution in 24 hours, synchronous with the sympathetic nervous system Synchronous Communication Satellites Earth's rotation. Used for geostationary satel-GS anatomy USE SYNCOM satellites lites . nervous system geostationary satellites . . autonomic nervous system **Synchronous Communications Satellite** artificial satellites . . sympathetic nervous system Proj SN . synchronous satellites RT ∞ systems (SYNCHRONOUS COMMUNICATIONS . . AEROS satellite SATELLITE PROJECT)

programs . NASA programs

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GS

sympathomimetics
USE adrenergics

Symphonie satellites
GS artificial satellites

. communication satellites

GOES 3 GOES 4 GOES 6 GOES 7 GOES 7 GOES 8 GOES 7 GOES 8 GOES 7 GOES 9 GOES 10	bevatron	Vernier engines
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SYNCOM satellites synchrotrons  SYNCOM 3 satellite GS circuits synchroscopes RT correlators ysynchroscopes RT correlators measuring instruments oscilloscopes synchrotron radiation GS electromagnetic radiation synchrotron radiation polarized electromagnetic radiation synchrotron radiatio		DEF The study and analysis of weather
Synchroscopes GS circuits . phase detectors . synchroscopes RT correlators measuring instruments oscilloscopes synchrorized oscillators synchrotron radiation GS electromagnetic radiation . nonthermal radiation . polarized electromagnetic radiation . polarized electromagnetic radiation . polarized relateromagnetic radiation . polarized relateromagnetic radiation . synchrotron radiation RT bremstrahlung extraterrestrial radiation . radiation protection synchrotrons x rays synchrotrons DEF Devices for accelerating particles, or- finantly electrons, in a circular orbit in an in- treasing magnetic field by means of an alternat- rollion. GS particle accelerators . SYNCOM appealment SYNCOM appealment SYNCOM satellites . SYNCOM satellite  SYNCOM satellites . SYNCOM satellite . SYNCOM satellites . SYNCOM satellite . SYNCOM satellites . SYNCOM satellite . SYNCOM satellites . SYNCOM s	•	
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RT correlators measuring instruments oscilloscopes synchronized oscillators  synchrotron radiation GS electromagnetic radiation . synchrotron radiation . onothermal radiation . opolarized electromagnetic radiation . polarized electromagnetic radiation . opolarized electromagnetic radiation . polarized electromagnetic radiation . opolarized electromagnetic radiation . synchrotron radiation . polarized electromagnetic radiation . opolarized electromagnetic radiation . synchrotron radiation . opolarized radiation . opolarized electromagnetic radiation . synchrotron radiation . opolarized electromagnetic radiation . opolarized electromagnetic radiation . opolarized electromagnetic radiation . opolarized electromagnetic radiation . opolarized electromagnetic radiation . opolarized electromagnetic radiation . opolarized electromagnetic radiation . opolarized radiation . opolarized electromagnetic radiation . opolarized radiation . opolarized electromagnetic radiation . opolarized radiation . opolarized electromagnetic radiation . opolarized electro	. active satellites	cyclones
measuring instruments oscilloscopes synchrorized oscillators synchrorized radiation		
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synchronized oscillators  synchrotron radiation  GS electromagnetic radiation . nonthermal radiation . polarized electromagnetic radiation . polarized electromagnetic radiation . polarized electromagnetic radiation . polarized radiation . polarized radiation . polarized radiation . synchrotron radiation . polarized radiation . synchrotron radiation . polarized electromagnetic radiation . synchrotron radiation . polarized electromagnetic radiation . synchrotron radiation . synchrotron radiation  PEF A geosynchronous communications satellite that was deployed on Space Shuttle STS 514 in November 1984.  GS artificial satellites . active satellites . active satellites . active satellites . syntax  STNCOM 4 satellite  GS artificial satellites . active satellite . active		•
SYNCOM 3 satellite  Synchrotron radiation  GS electromagnetic radiation  . nonthermal radiation  . polarized electromagnetic radiation  . polarized radiation  SYNCOM 4 satellite  DEF A geosynchronous communications  STS 51A in November 1984.  GS artificial satellites  . SYNCOM satellites  . SYNCOM 4 satellite  . SYNCO		
GS electromagnetic radiation . nonthermal radiation . polarized electromagnetic radiation . synchrotron radiation . polarized radiation . synchrotron radiation . synchrotron radiation polarized electromagnetic radiation . synchrotron radiation polarized radiation . synchrotron radiation polarized electromagnetic radiation . synchrotron radiation polarized electromagnetic radiation . synchrotron radiation polarized electromagnetic radiation polarized station polarized radiation pol		
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. polarized electromagnetic radiation synchrotron radiation polarized radiation polarized electromagnetic field by means of an alternating field applied in a synchronism with the orbital notion.  GS particle accelerators polarized electromagnetic radiation DEF A geosynchronous communications page Synchronous page Shuttle polarized electromagnetic radiation DEF A geosynchronous communications page Shuttle polarized electromagnetic radiation DEF A geosynchronous communications page Shuttle polarized electromagnetic radiation page Shuttle page Shu	RT Delta launch vehicle	GS linguistics
polarized radiation . polarized leactromagnetic radiation . polarized electromagnetic radiation . synchrotron radiation  RT bremsstrahlung     extraterrestrial radiation      ardiation     radiation     radiation protection     synchrotrons     x rays  SYNCOM satellites      x rays  SYNCOM 4 satellite  SYNCOM 4 satellite  SYNCOM 4 satellite  SYNCOM 5 satellite  SYNCOM 4 satellite  SYNCOM 4 satellite  SYNCOM 4 satellite  SYNCOM 5 satellite  SYNCOM 6 satellite  S		
Description protection synchrotrons  Description protection synchrotrons  Description protection synchrotrons  Description protection protection protection synchrotrons  Description protection protection protection synchrotrons protection protection synchrotrons  Description protection pr	SYNCOM 4 satellite	RT format
RT bremsstrahlung extraterrestrial radiation  ∞ radiation radiation protection synchrotrons x rays  DEF Devices for accelerating particles, ordinarily electrons, in a circular orbit in an ingreasing magnetic field by means of an alternating field applied in a synchronism with the orbital motion.  GS particle accelerators  RT bremsstrahlung extraterrestrial radiation STS 51A in November 1984.  GS artificial satellites active satellites SYNCOM satellites SYNCOM 4 satellite psycholinguistics semantics s	DEF A geosynchronous communications	grammars
RT bremsstrahlung extraterrestrial radiation  radiation radiation protection synchrotrons  x rays  SYNCOM 4 satellites  SYNCOM 4 satellites  SYNCOM 4 satellites  SYNCOM 4 satellites  SYNCOM 4 satellite  SYNCOM 4 satellite  SYNCOM 5 satellites  SYNCOM 5 satellites  SYNCOM 5 satellites  SYNCOM 5 satellites  SYNCOM 6 satellites  SYNCOM 6 satellites  SYNCOM 8 satellites  SYNCOM 9 satellites  SYNCOM 8 satellites  SYNCOM 9 satellit	satellite that was deployed on Space Shuttle	∞ interpretation
extraterrestrial radiation  ∞ radiation  ∞ radiation  radiation protection  synchrotrons  x rays  DEF Devices for accelerating particles, ordinarily electrons, in a circular orbit in an increasing magnetic field by means of an alternating field applied in a synchronism with the orbital notion.  GS particle accelerators  extraterrestrial radiation  . active satellites . SYNCOM satellites . SYNCOM 4 satellite . synchronis  with the orbital synchronism with the orbital synchronism sy	STS 51A in November 1984.	languages
oradiation protection synchrotrons communication satellites synchrotrons communication satellites synchrotrons communication satellites semantics	GS artificial satellites	natural language processing
radiation protection synchrotrons x rays  SYNCOM 4 satellite synchrotrons x rays  SYNCOM astellites semantics semant		
synchrotrons x rays  SYNCOM satellites SYNCOM 4 satellites Semantics sentences sentences speech  SYNCOM 4 satellite Sepech  SYNCOM 5 satellite Sepech  SYNCOM 6 satellite Sepech  SYNCOM 6 satellite Sepech  SYNCOM 6 satellite Sepech Sepech  SYNCOM 6 satellite Sepech Se		
x rays  x synCOM 4 satellite  x synchronous satellites  x synetctic alloys  DEF Metallic composite materials of the decircle by a reversible convertibility of the phases into two liquid phases by the apponetion.  GS particle accelerators  x rays  x synCOM 4 satellite  x synetcic alloys  y rocket engines  x rocket engines  x rocket engines  x syntectic alloys  x syntectic alloys  x syntectic alloys	SYNCOM 4 satellite	psycholinguistics
SYNCOM 4 satellite spech synchrotrons  DEF Devices for accelerating particles, ordinarily electrons, in a circular orbit in an ingreasing magnetic field by means of an alternating field applied in a synchronism with the orbital motion.  GS particle accelerators  SYNCOM 4 satellite  SYNCOM 4 satellite  DEF Metallic composite materials of terized by a reversible convertibility of the phases into two liquid phases by the appropriate of heat.  SYNCOM apogee engines  GS engines  Focket engines  Focket engines  Syntom apogee engines  Focket engines		
synchrotrons  DEF Devices for accelerating particles, ordinarily electrons, in a circular orbit in an ingrified applied in a synchronism with the orbital motion.  GS particle accelerators  Syncom 4 satellites  SYNCOM 4 satellite  SYNCOM 5 satellite  SYNCOM 5 satellite  SYNCOM 6 satelli		
DEF Devices for accelerating particles, or- dinarily electrons, in a circular orbit in an in- creasing magnetic field by means of an alternat- notion.  GS particle accelerators  . cyclic accelerators  . SYNCOM satellites  . SYNCOM 4 satellite  . SYNCOM 5 satellite  . SYNCOM 5 satellite  . SYNCOM 5 satellite  . SYNCOM 6 satellite	SYNCOM 4 satellite	speech
dinarily electrons, in a circular orbit in an increasing magnetic field by means of an alternating field applied in a synchronism with the orbital notion.  GS particle accelerators  . cyclic accelerators  .		
creasing magnetic field by means of an alternating field applied in a synchronism with the orbital motion.  GS particle accelerators  Cyclic accelerators  SYNCOM apogee engines  GS engines  Frocket engines  Crocket engines  Cocket engines		
ng field applied in a synchronism with the orbital notion.  GS particle accelerators  Cyclic accelerators  SYNCOM apogee engines  GS engines  Cyclic accelerators  Cyclic accelerators  SYNCOM apogee engines  GS engines  Cyclic engines  Cyclic accelerators  Cyclic accelerators  Cyclic accelerators  Syncom apogee engines  Cyclic accelerators  Cyc	SYNCOM 4 satellite	DEF Metallic composite materials charac
motion. GS engines of heat. GS particle accelerators . rocket engines . solid propellant rocket engines . syntectic alloys		terized by a reversible convertibility of their soli
GS particle accelerators . rocket engines . solid propellant rocket engines . syntectic alloys	SYNCOM apogee engines	phases into two liquid phases by the applicatio
. cyclic accelerators solid propellant rocket engines . syntectic alloys		of heat.
	GS engines	
synchrotrons SYNCOM apogee engines RT eutectics	GS engines . rocket engines	GS alloys
	GS engines rocket engines solid propellant rocket engines	GS alloys . <b>syntectic alloys</b>
	GS engines rocket engines solid propellant rocket engines	GS alloys . <b>syntectic alloys</b>
ing field applied in a synchronism with the orbital motion.  GS particle accelerators . cyclic accelerators		RT betatrons cyclotrons electron accelerators)  RT betatrons cyclotrons electron accelerators ion accelerators microtrons synchrocyclotrons synchrophasotrons synchrophasotrons synchrophasotrons synchrofiles  UF synclinoria RT anticlines  UF synclinoria RT anticlines  odmes (geology) geological faults geosynclines  ∞ layers strata stratification stratigraphy  synclinoria  USE synclines  syncoders  RT bionics neurons synapses  SYNCOM 1 satellite GS artificial satellites SYNCOM satellites SYNCOM 1 satellite SYNCOM 3 satellite SYNCOM 3 satellite SYNCOM 3 satellite SYNCOM 2 satellite SYNCOM 3 satellite SYNCO

liquid phases	Shuttle Imaging Radar	synthesis (chemistry)
metals	side-looking radar RT airborne radar	synthesis gas
phase transformations solid phases	Earthnet	synthetic metals
	Envisat-1 satellite	DEF Materials which do not occur in nature
synthane	ground penetrating radar	but have the appearance and physical proper-
UF synthetic methane GS fuels	imaging radar	ties of true metals.  RT crystal lattices
. chemical fuels	Magellan spacecraft (NASA) microwave imagery	dendrimers
hydrocarbon fuels	microwave sensors	graphite
synthane	radar equipment	organometallic compounds
synthetic fuels	Radarsat	synthetic methane
<b>synthane</b> RT automobile fuels	satellite-borne radar surveillance radar	USE synthane
carbon dioxide	synthetic apertures	•
carbon monoxide	Venus orbiting imaging radar	synthetic resins
coal	(spacecraft)	GS plastics . synthetic resins
coal gasification gasification	synthetic apertures	addition resins
hydrogen	DEF In radar technology, the simulations of	acrylic resins
lignite	large antennas by correcting the phase and	vinyl copolymers
methane	magnitude of the return signals from smaller	polyester resins
synthesis	antennas, permitting the use of lower frequen-	polyether resins PEEK
SN (USE OF A MORE SPECIFIC TERM IS	cies for airborne radars. GS openings	polymethyl methacrylate
RECOMMENDEDCONSULT THE TERMS	. apertures	thermoplastic resins
LISTED BELOW) RT biosynthesis	. synthetic apertures	PEEK
chemical reactions	RT imaging techniques	quinoxalines
decision theory	synthetic aperture radar	thermoplastic films thermosetting resins
∞ design	synthetic arrays	epoxy resins
network synthesis nuclear fusion	GS arrays	phenolic epoxy resins
operations research	. synthetic arrays	furan resins
plasma jet synthesis	RT antenna radiation patterns	polyamide resins
synthesis (chemistry)	apertures	Kevlar (trademark) Nylon (trademark)
synthetic fuels	distribution (property) ∞ patterns	phenolic resins
systems engineering	Shuttle Imaging Radar	micarta
synthesis (chemistry)	3 3	phenolic epoxy resins
DEF The application of chemical reactions	synthetic fibers	resins
to obtain desired chemical products.	GS fibers . synthetic fibers	. <b>synthetic resins</b> addition resins
GS synthesis (chemistry)	. aramid fibers	acrylic resins
<ul><li>polymerization</li><li>copolymerization</li></ul>	Kevlar (trademark)	vinyl copolymers
dimerization	ceramic fibers	polyester resins
. electrochemical synthesis	Dacron (trademark)	polyether resins
RT addition resins	Fortisan (trademark)	PEEK polymethyl methacrylate
chemical reactions	glass fibers Nylon (trademark)	thermoplastic resins
∞ chemistry cycloaddition	rayon	PEEK
Fischer-Tropsch process	Vycor	quinoxalines
operations research	RT addition resins	thermoplastic films
reaction intermediates	flame retardants Kevlar (trademark)	thermosetting resins epoxy resins
self assembly ∞ synthesis	polyacrylonitrile	phenolic epoxy resins
synthesis gas	polybenzimidazole	furan resins
synthetic fibers	polyesters	polyamide resins
synthetic fuels	reinforcing fibers	Kevlar (trademark)
synthetic resins	synthesis (chemistry) wet spinning	Nylon (trademark) phenolic resins
synthetic rubbers systems engineering	wet spirining	micarta
Systems engineering	synthetic food	phenolic epoxy resins
synthesis gas	DEF Mixture of roughage, vitamins, miner-	RT polyethylenes
(added January 2002)	als, etc., closely approximating natural foods in appearance, taste, and nutrition.	∞ polymers polypropylene
DEF A mixture of gases produced as feed- stock for the synthesis of chemical compounds,	RT amino acids	polystyrene
for example, hydrogen and carbon monoxide	biosynthesis	polytetrafluoroethylene
used as the starting material for the production	carbohydrates	polyvinyl alcohol
of ammonia derivatives, methanol, and hydro-	cellulose	polyvinyl chloride
carbons.	eating fats	synthesis (chemistry) teflon (trademark)
UF syngas GS gases	∞ food	telion (trademark)
. synthesis gas	food intake	synthetic rubbers
RT catalysts	nutritional requirements	GS elastomers
coal derived gases	protein metabolism	. rubber
coal gasification	proteins taste	<b>synthetic rubbers</b> Adiprene (trademark)
fuel production synthesis (chemistry)		Buna (trademark)
synthetic fuels	synthetic fuels	silicone rubber
•	GS fuels	RTV-40 rubber (trademark)
synthesizers	. chemical fuels	RTV-60 rubber (trademark)
RT chemical reactors frequency synthesizers	<b>synthetic fuels</b> gasohol (fuel)	Viton rubber (trademark) vulcanized elastomers
noquency synthesizers	synthane	RTV-40 rubber (trademark)
synthetic aperture radar	RT chemical reactions	RTV-60 rubber (trademark)
DEF Active microwave sensors providing	clean fuels	chloroprene resins
all-weather, high resolution imagery. Used for	Fischer-Tropsch process	RT latex
maging radar. GS radar	hydrocarbon fuels liquid fuels	polybutadiene polyisobutylene
. synthetic aperture radar	∞ synthesis	polyisoprenes
	-	· · ·

solithanes	electronic equipment	central nervous system stimulants
synthesis (chemistry)	external surface currents	chokes (fuel systems)
synthetic vision	extraterrestrial radiation ionizing radiation	closed ecological systems complex systems
USE enhanced vision	plasma sheaths	computer systems design
aumtamu.	satellite communication	computer systems performance
syntony  DEF The situation of two or more oscillating	spacecraft charging spacecraft communication	computer systems programs
circuits having the same resonant frequency.	x rays	computer systems simulation
RT frequency synchronization	•	cooling systems cybernetics
oscillations resonance	system identification	data base management systems
resoriance	DEF The technology of modeling plants and processes from their dynamic response.	data systems
syphilis	GS estimating	Defense Communications Satellite
GS diseases . infectious diseases	system identification	System defense communications system
bacterial diseases	identifying	(DCS)
syphilis	. <b>system identification</b> systems analysis	descent propulsion systems
Oi	. system identification	digestive system digital command systems
Syria GS nations	RT complex systems	digital systems
. Syria	control systems design dynamic response	discrete address beacon system
RT Asia	estimates	disk operating system (DOS)
syringes	fuzzy systems	display devices distributed parameter systems
GS laboratory equipment	mathematical models maximum likelihood estimates	domestic satellite communications
syringes	observability (systems)	systems
medical equipment	optimization	early warning systems Earth Resources Information System
. <b>syringes</b> RT bulbs	parameter identification	Earth terminal measurement system
∞ equipment	parameterization prediction analysis techniques	Earth-Moon system
fluid flow	probability theory	ecosystems
pipes (tubes) transfusion	reliability engineering	efferent nervous systems EISCAT radar system (Europe)
แสกรเฉรเดก	statistical analysis	∞ elastic systems
System 10 computer	steepest descent method  ∞ systems	electronic recording systems
USE PDP 10 computer	systems engineering	emergency life sustaining systems
system effectiveness		endocrine systems end-to-end data systems
GS effectiveness	systematic errors	escape systems
system effectiveness	(added April 1997) DEF Non-random and often predictable er-	exhaust systems
RT modulation transfer function	rors due to some physical law or caused by	fail-safe systems
optical transfer function reliability	flaws in a measurement process.	feed systems feedback
reliability engineering	GS errors . systematic errors	Fleet Satellite Communication System
∞ systems	RT error analysis	fuel systems
systems engineering systems health monitoring	instrument compensation	fuzzy systems gastrointestinal system
systems integration	instrument errors random errors	genitourinary system
	Taridom enors	Global Positioning System
system failures GS failure	∞ systems	Goddard Trajectory Determination System
. system failures	SN (USE OF A MORE SPECIFIC TERM IS	ground operational support system
RT ∞ breakdown	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)	ground support systems
deterioration	RT Advanced Vidicon Camera System	guidance (motion)
downtime fatigue (materials)	(AVCS) aerospace systems	hardening (systems) hematopoietic system
fault detection	afferent nervous systems	hybrid navigation systems
malfunctions	African rift system	hydraulic equipment
short circuits structural failure	air cushion landing systems Airborne Integrated Reconnaissance	hydroplanes (surfaces) hydrothermal systems
structural strain	System	∞ hyperbolic systems
∞ systems	aircraft fuel systems	IFF systems (identification)
wear	aircraft hydraulic systems	ignition systems IMLSS
system generated electromagnetic pulses	all-weather landing systems Aloha system	inertial reference systems
DEF Electromagnetic fields generated by		information adaptive system
the emission of a large electronic current from a		information systems
metallic body in space caused by the incidence on its surface of strong ionizing radiation pulses		instrument landing systems intake systems
(usually x ray) from space. Used for SGEMP.		
UF SGEMP	Astroguide Navigation System	integrated energy systems
GS electromagnetic fields	Astroguide Navigation System Atmospheric & Oceanographic Inform	integrated energy systems integrated global ocean station
	Astroguide Navigation System Atmospheric & Oceanographic Inform Sys	integrated energy systems integrated global ocean station systems
. system generated	Astroguide Navigation System Atmospheric & Oceanographic Inform Sys automated pilot advisory system	integrated energy systems integrated global ocean station systems International System of Units
	Astroguide Navigation System Atmospheric & Oceanographic Inform Sys automated pilot advisory system automated radar terminal system automatic traffic advisory and	integrated energy systems integrated global ocean station systems
. system generated electromagnetic pulses electromagnetic radiation . electromagnetic pulses	Astroguide Navigation System Atmospheric & Oceanographic Inform Sys automated pilot advisory system automated radar terminal system automatic traffic advisory and resolution	integrated energy systems integrated global ocean station systems International System of Units intravascular system jettison systems launch escape systems
. system generated electromagnetic pulses electromagnetic radiation . electromagnetic pulses system generated	Astroguide Navigation System Atmospheric & Oceanographic Inform Sys automated pilot advisory system automated radar terminal system automatic traffic advisory and resolution autonomic nervous system	integrated energy systems integrated global ocean station systems International System of Units intravascular system jettison systems launch escape systems life support systems
. system generated electromagnetic pulses electromagnetic radiation . electromagnetic pulses	Astroguide Navigation System Atmospheric & Oceanographic Inform Sys automated pilot advisory system automated radar terminal system automatic traffic advisory and resolution	integrated energy systems integrated global ocean station systems International System of Units intravascular system jettison systems launch escape systems life support systems Light Airborne Multipurpose System linear systems
system generated electromagnetic pulses electromagnetic radiation electromagnetic pulses system generated electromagnetic pulses pulsed radiation electromagnetic pulses	Astroguide Navigation System Atmospheric & Oceanographic Inform Sys automated pilot advisory system automated radar terminal system automatic traffic advisory and resolution autonomic nervous system Ballistic Missile Early Warning System Beacon Collision Avoidance System binary systems (materials)	integrated energy systems integrated global ocean station systems International System of Units intravascular system jettison systems launch escape systems life support systems Light Airborne Multipurpose System linear systems LOCATES system
electromagnetic pulses electromagnetic radiation electromagnetic pulses electromagnetic pulses system generated electromagnetic pulses pulsed radiation electromagnetic pulses system generated	Astroguide Navigation System Atmospheric & Oceanographic Inform Sys automated pilot advisory system automated radar terminal system automatic traffic advisory and resolution autonomic nervous system Ballistic Missile Early Warning System Beacon Collision Avoidance System binary systems (materials) Bioastronautical Orbital Space	integrated energy systems integrated global ocean station systems International System of Units intravascular system jettison systems launch escape systems life support systems Light Airborne Multipurpose System linear systems LOCATES system LORAC navigation system
system generated electromagnetic pulses electromagnetic radiation electromagnetic pulses system generated electromagnetic pulses pulsed radiation electromagnetic pulses	Astroguide Navigation System Atmospheric & Oceanographic Inform Sys automated pilot advisory system automated radar terminal system automatic traffic advisory and resolution autonomic nervous system Ballistic Missile Early Warning System Beacon Collision Avoidance System binary systems (materials)	integrated energy systems integrated global ocean station systems International System of Units intravascular system jettison systems launch escape systems life support systems Light Airborne Multipurpose System linear systems LOCATES system
electromagnetic pulses electromagnetic radiation electromagnetic radiation electromagnetic pulses system generated electromagnetic pulses pulsed radiation electromagnetic pulses system generated electromagnetic pulses electromagnetic pulses pulses pulses electromagnetic pulses	Astroguide Navigation System Atmospheric & Oceanographic Inform Sys automated pilot advisory system automated radar terminal system automatic traffic advisory and resolution autonomic nervous system Ballistic Missile Early Warning System Beacon Collision Avoidance System binary systems (materials) Bioastronautical Orbital Space System biocontrol systems cardiovascular system	integrated energy systems integrated global ocean station systems International System of Units intravascular system jettison systems launch escape systems life support systems Light Airborne Multipurpose System linear systems LOCATES system LORAC navigation system lubrication systems lumped parameter systems Lunar Exploration System for Apollo
electromagnetic pulses electromagnetic radiation electromagnetic radiation electromagnetic pulses system generated electromagnetic pulses pulsed radiation electromagnetic pulses system generated electromagnetic pulses pulses pulses electromagnetic pulses selectromagnetic pulses electromagnetic pulses	Astroguide Navigation System Atmospheric & Oceanographic Inform Sys automated pilot advisory system automated radar terminal system automatic traffic advisory and resolution autonomic nervous system Ballistic Missile Early Warning System Beacon Collision Avoidance System binary systems (materials) Bioastronautical Orbital Space System biocontrol systems cardiovascular system celestial reference systems	integrated energy systems integrated global ocean station systems International System of Units intravascular system jettison systems launch escape systems life support systems Light Airborne Multipurpose System linear systems LOCATES system LORAC navigation system lubrication systems lumped parameter systems Lunar Exploration System for Apollo man machine systems
electromagnetic pulses electromagnetic radiation electromagnetic pulses electromagnetic pulses electromagnetic pulses electromagnetic pulses pulsed radiation electromagnetic pulses electromagnetic pulses electromagnetic pulses pulses electromagnetic pulses electromagnetic pulses electromagnetic pulses electromagnetic pulses electromagnetic pulses	Astroguide Navigation System Atmospheric & Oceanographic Inform Sys automated pilot advisory system automated radar terminal system automatic traffic advisory and resolution autonomic nervous system Ballistic Missile Early Warning System Beacon Collision Avoidance System binary systems (materials) Bioastronautical Orbital Space System biocontrol systems cardiovascular system celestial reference systems Central Electronic Management	integrated energy systems integrated global ocean station systems International System of Units intravascular system jettison systems launch escape systems life support systems Light Airborne Multipurpose System linear systems LOCATES system LORAC navigation system lubrication systems lumped parameter systems Lunar Exploration System for Apollo man machine systems man operated propulsion systems
electromagnetic pulses electromagnetic radiation electromagnetic radiation electromagnetic pulses system generated electromagnetic pulses pulsed radiation electromagnetic pulses system generated electromagnetic pulses pulses pulses electromagnetic pulses selectromagnetic pulses electromagnetic pulses	Astroguide Navigation System Atmospheric & Oceanographic Inform Sys automated pilot advisory system automated radar terminal system automatic traffic advisory and resolution autonomic nervous system Ballistic Missile Early Warning System Beacon Collision Avoidance System binary systems (materials) Bioastronautical Orbital Space System biocontrol systems cardiovascular system celestial reference systems	integrated energy systems integrated global ocean station systems International System of Units intravascular system jettison systems launch escape systems life support systems Light Airborne Multipurpose System linear systems LOCATES system LORAC navigation system lubrication systems lumped parameter systems Lunar Exploration System for Apollo man machine systems

methoxy systems management planning uncertain systems unmanned aircraft systems mathematical models microwave landing systems microwave scanning beam landing vacuum systems mechanization variable mass systems missile design system vortex advisory system modularity MIMO (control systems) warning systems multidisciplinary design optimization minitrack system weapon system management observability (systems) Miros system weapon systems operational problems missile systems operations Modular Integrated Utility System systems analysis operations research musculoskeletal system systems analysis optical transfer function NASA Interactive Planning System system identification orbit spectrum utilization National Airspace Utilization System RT ∞ analyzing parameter identification National Aviation System block diagrams reliability National Oceanic Satellite System reliability engineering research and development bond graphs navigation complex systems research and develor reverse engineering satellite design software engineering spacecraft design statistical analysis needs (data system) computer programming nervous system computer systems programs Nike X systems computer systems simulation NOESS control systems design nonlinear systems feasibility analysis Nova Laser System fuzzy systems  $\infty$  statistics observability (systems)
Omega Navigation System
on-line systems man machine systems ∞ synthesis mathematical models synthesis (chemistry) modulation transfer function system effectiveness operating systems (computers) observability (systems) system identification optical relay systems payload deployment & retrieval operating costs operations research optical transfer function ∞ systems systems integration system peripheral nervous system parameter identification Systems for Nuclear Auxiliary Power phase locked systems preflight analysis USE SNAP piggyback systems procedures program verification (computers) sensitivity analysis simulation procedures planetary systems systems health monitoring PLAT system (added July 1995) pneumatic equipment ((NOT USED FOR PHYSIOLOGICAL, PSYCHOLOGICAL, OR BIOLOGICAL SYSTEMS)) health and usage monitoring systems pointing control systems sociology polystation doppler tracking system statistical analysis portable life support systems ∞ systems component reliability post boost propulsion system trajectory analysis engine monitoring instruments propulsion system configurations weight analysis expert systems fault detection propulsion system performance weight reduction public address systems life (durability) .... (durability) propulsion system performance service life quality control systems compatibility compatibility
. systems compatibility radio relay systems GS Ranger block 3 television system smart structures rapid transit systems interoperability ∘ reference systems software reliability reliability remote manipulator system reliability engineering system effectiveness reproductive systems respiratory system systems integration systems design rotor systems research aircraft DEF The combining of subsystems each USE systems engineering Safeguard system with numerous interfaces for the input and outsystems 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 commit-SAGE air defense system put of data and each with specified functions satellite navigation systems self adaptive control systems vital to the planned success of the main system. RT airborne/spaceborne computers self organizing systems self organizing systems Sentinel system Shiva laser system SISO (control systems) SNAP avionics control systems design digital systems interoperability ted. system effectiveness UF systems design ∞ systems solar system GS systems engineering solar total energy systems space detection and tracking system systems engineering . computer systems design systems simulation control systems design aerospace systems aircraft design systems-on-a-chip space transportation system Space Transportation System flights systems management support systems ∞ automation management
. systems management
industrial management suspension systems (vehicles) bionics GS sympathetic nervous system bond graphs system effectiveness communicating information systems system failures concurrent engineering man machine systems system identification contract management systems analysis management methods control systems engineering critical path method operations research systems integration cybernetics ∞ systems systems management data processing systems simulation decision making systems simulation systems stability decision theory DEF The simulation of any dynamic system. télecommunication simulation ∞ design telegraph systems design optimization . systems simulation electrical engineering teletypewriter systems . computer systems simulation television systems ∞ engineering analog simulation experiment design flight management systems **TERCOM** computerized simulation ternary systems
TIROS operational satellite system dynamic models forecasting functional design specifications dynamical systems total energy systems flight simulation human factors engineering information theory TRADEX radar system hardware-in-the-loop simulation transcontinental systems mathematical models model reference adaptive control operations research transfer functions life cycle costs transoceanic systems man machine systems ∞ systems Typhon weapon system management

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 mixed-

technology subsystems.
UF SOAC (electronics) SoC (microelectronics) GS 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

heart rate systolic pressure

## systolic arrays

GS arrays

systolic arrays

algorithms architecture (computers)

chips (electronics) computation

parallel processing (computers) very large scale integration

## systolic pressure

GS pressure
. blood pressure
. systolic pressure

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
	jet engines	jet engines
. T shape	, 0	
RT beams (supports)	turbojet engines	turbojet engines
T toll confesse	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	turbojet engines	turbojet engines
. T tail surfaces	turboprop engines	turboprop engines
RT control surfaces	T-34 engine	T-53 engine
stabilizers (fluid dynamics)	•	
	RT C-133 aircraft	RT helicopter engines
∞ surfaces	T 07 sinewalk	
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	
T Tauri stars		turboprop engines
	training aircraft	T-55 engine
variable stars	T-37 aircraft	. aircraft engines
T Tauri stars	RT A-37 aircraft	T-55 engine
RT Herbig-Haro objects	∞ aircraft	. internal combustion engines
star formation		gas turbine engines
Taurus constellation	T-38 aircraft	jet engines
	UF Talon aircraft	turbojet engines
T-2 aircraft	GS jet aircraft	turbojet engines
UF buckeye aircraft	. T-38 aircraft	
T2J aircraft	monoplanes	T-55 engine
	•	. 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	turboprop engines
. T-2 aircraft	. T-38 aircraft	T-55 engine
monoplanes	training aircraft	
. T-2 aircraft	. T-38 aircraft	RT helicopter engines
North American aircraft	RT ∞ aircraft	
	nı ∞ aliciali	T-56 engine
T-2 aircraft	T 20 anning	GS engines
single engine aircraft	T-38 engine	. 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	turboprop engines
T2J aircraft	turboprop engines	T-56 engine
USE T-2 aircraft	T-38 engine	. internal combustion engines
OOL 12 diretuit	. aircraft engines	gas turbine engines
TO Laireraft		jet engines
T3J aircraft	T-38 engine	turbojet engines
USE T-39 aircraft	. internal combustion engines	turboprop engines
	gas turbine engines	T-56 engine
T-28 aircraft	jet engines	
UF Trojan aircraft	turbojet engines	. turbine engines
GS monoplanes	turboprop engines	gas turbine engines
. T-28 aircraft	T-38 engine	jet engines
North American aircraft	. turbine engines	turbojet engines
. T-28 aircraft	gas turbine engines	turboprop engines
	0 0	T-56 engine
single engine aircraft	jet engines	RT C-130 aircraft
T-28 aircraft	turbojet engines	
training aircraft	turboprop engines	T EQ angino
. 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		T-58 engine
	monoplanes	. turbine engines
Lockheed aircraft	T-39 aircraft	3
T-33 aircraft	North American aircraft	gas turbine engines
monoplanes	. T-39 aircraft	T-58 engine
. T-33 aircraft	passenger aircraft	RT aircraft engines
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
ni ∞ancian		
T 24 angina	RT ∞ aircraft	. air breathing engines
T-34 engine	cargo aircraft	gas turbine engines
GS engines		jet engines
. air breathing engines	T-53 engine	turbojet engines
gas turbine engines	GS engines	turboprop engines
jet engines	. air breathing engines	T-63 engine
turbojet engines	gas turbine engines	. aircraft engines
turboprop engines	jet engines	T-63 engine
T-34 engine	turbojet engines	. internal combustion engines
. aircraft engines	turboprop engines	gas turbine engines

	jet engines		. internal combustion engines		solar compasses
	turbojet engines		gas turbine engines	tachiete	oscopes
	turboprop engines <b>T-63 engine</b>		jet engines turbojet engines		visual perception
	. turbine engines		turbojet engines		viodai porcoption
	gas turbine engines		T-78 engine	tachom	
	jet engines		. turbine engines	GS	display devices
	turbojet engines		gas turbine engines		. speed indicators
	turboprop engines		jet engines		tachometers measuring instruments
ОТ	T-63 engine		turbojet engines		. indicating instruments
RT	helicopter engines		turboprop engines		speed indicators
T-64 er	ngine		T-78 engine		tachometers
GS	engines	tables	(data)	RT	aircraft instruments
	. air breathing engines	DEF	• ,		angular velocity
	gas turbine engines		unambiguously identified by means of		timing devices
	jet engines	one or	more arguments. (2) A collection of data		velocity measurement
	turbojet engines		h each item is uniquely identified by a	tachyca	ordia
	turboprop engines		y its position relative to the other items, or	GS	diseases
	T-64 engine . internal combustion engines		e other means.	0.0	. tachycardia
	gas turbine engines	GS	tables (data) . conversion tables		rates (per time)
	jet engines		. interference factor table		. heart rate
	turbojet engines		. mathematical tables		tachycardia
	turboprop engines	RT	air data systems	4a a la va	
	T-64 engine		astronomical catalogs	tachyor GS	particles
	turbine engines		∞ data	do	. elementary particles
	gas turbine engines		data acquisition		hypothetical particles
	jet engines turbojet engines		data management		tachyons
	turbojet engines		data recording		-
	T-64 engine		data recording data reduction	tachypr	
RT	helicopter engines		data retrieval	GS	rates (per time)
			printouts		. respiratory rate
T-74 er	•		spreadsheets		таспурпеа
GS	engines		statistical analysis	tackine	ss
	. air breathing engines gas turbine engines		∞ statistics	RT	adhesion
	jet engines		∞ tabulation		
	turbojet engines		tabulation processes	TACT p	
	turboprop engines	tablets		UF	Transonic Aircraft Technology
	T-74 engine	RT	briquets	GS	Program programs
	. internal combustion engines		∞ capsules	ao	. NASA programs
	gas turbine engines		molds		TACT program
	jet engines			RT ∝	∘ aeronautics
	turbojet engines		ontrol surfaces)	~	∘ aircraft
	turboprop engines <b>T-74 engine</b>	GS	airfoils		
	. 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		∞ control		deployment
	T-74 engine		elevators (control surfaces)		evasive actions
RT	helicopter engines		elevons		military operations
T-76 er	naine		rudders		military technology
GS	engines		stabilizers (fluid dynamics)		obstacle avoidance
ao	. air breathing engines	C	∞ surfaces	tactile o	discrimination
	gas turbine engines	tabulati	ina	GS	discrimination
	jet engines	USE	tabulation processes		. sensory discrimination
	turbojet engines	OOL	tabulation processes		tactile discrimination
	turboprop engines	∞ tabulat	tion		perception
	T-76 engine	SN	(USE OF A MORE SPECIFIC TERM IS		. sensory perception
	. aircraft engines <b>T-76 engine</b>		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		touch
	. internal combustion engines	RT	tables (data)	RT	tactile discrimination tactile sensors (robotics)
	gas turbine engines		tabulation processes	111	tactile serisors (robotics)
	jet engines			tactile s	ensation
	turbojet engines		ion processes	USE	touch
	turboprop engines	UF	tabulating		
	T-76 engine	RT	data processing		sensors (robotics)
	. turbine engines		data recording		ed January 1991)
	gas turbine engines jet engines		tables (data) ∞ tabulation	GS	robot sensors
	turbojet engines	·	~ tabulation	RT	. tactile sensors (robotics) end effectors
	turboprop engines	Tacan			manipulators
	T-76 engine	DEF	A two dimensional navigation system		robots
RT	helicopter engines		provides azimuth and distance to a fixed	~	sensors
			station for navigation in piloted aircraft.		servomechanisms
T-78 er			or tactical air navigation.		tactile discrimination
GS	engines	UF GS	tactical air navigation		teleoperators
	. air breathing engines gas turbine engines	GS	navigation . radio navigation		touch
	jet engines		Tacan	Tafel la	w
	turbojet engines	RT	air navigation	GS	laws
	turboprop engines		all-weather air navigation		. Tafel law
	T-78 engine		flight paths	RT	electrodes
	. aircraft engines		navigation aids		electrolysis
	T-78 engine		radar navigation		Ficks equation

	polarization (charge separation)	۰	rotor blades		talc
		tail sur	inone		sodium compounds
tagging			tail surfaces		. sodium silicates talc
USE	marking	ao	. horizontal tail surfaces		taic
			. sweptback tail surfaces	talking	
TAGN			. T tail surfaces	GS	speech
UF	triaminoguanidinenitrate		. trapezoidal tail surfaces		talking
GS	oxidizers	RT	control surfaces	RT	sentences
	. rocket oxidizers		elevators (control surfaces)		signal transmission
	TAGN		rudders		
	propellants . rocket propellants		stabilizers (fluid dynamics)	Talon ai	
	TAGN	۰	surfaces	USE	T-38 aircraft
RT	explosives	tailless	aircraft	Talos m	nissile
			flying wing aircraft		missiles
Taguch	i methods		tailless aircraft		. surface to air missiles
	ed September 2000)		. 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
product'	's sensitivity to uncontrollable system		. F-106 aircraft		multistage rocket vehicles
	nces by simultaneously varying both		. FD 2 aircraft		solid propellant rocket engines
	and disturbance parameters. The		. HP-115 aircraft	tandem	mirrors
	incorporates a special set of arrays		. Mirage 3 aircraft . SC-1 aircraft		mirrors
	rthogonal arrays that define the minimal		. Vulcan aircraft	0.0	. magnetic mirrors
	of experiments that would provide the rmation for all factors that affect the		. X-36 aircraft		tandem mirrors
	ance parameter.		. X-45 aircraft	RT	fusion reactors
	quality control	RT ∘	aircraft		mirror fusion
	. Taguchi methods		blended-wing-body configurations		plasma control
RT	design analysis		jet aircraft		thermal barriers (plasma control)
	experiment design		low wing aircraft	tandom	rotor helicopters
	multidisciplinary design optimization	۰	military aircraft		V/STOL aircraft
	optimization		monoplanes research aircraft	ao	. rotary wing aircraft
	parameter identification		research airciait		helicopters
	reliability engineering	tailoring			tandem rotor helicopters
	statistical analysis total quality management		design		CH-46 helicopter
	total quality management		-		CH-47 helicopter
4-!!			semblies)		H-25 helicopter
	emblies The rear part of a body as of an	USE	tail assemblies	RT ∝	aircraft
	The rear part of a body, as of an or a rocket. The tail surfaces of an	Taiwan		tandam	wing circroft
	or rocket. Used for empennage, tail	<b>Taiwan</b> UF	Republic of China		wing aircraft An aircraft congiguration having two
	gs, tails (assemblies), and vertical tails.		nations		f similar span, mounted in tandem.
UF	empennage	do	. 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				dual wing configurations
	sweptback tail surfaces swing tail assemblies	Tajikista			jet aircraft joined wings
	T tail surfaces		ed August 1993) nations		research aircraft
	trapezoidal tail surfaces	do	. Tajikistan	0	subsonic aircraft
RT	aerial rudders	RT	Asia		X-22 aircraft
	afterbodies				
	aircraft parts	takeoff		tangent	ial blowing
	aircraft structures	DEF	The action of a rocket vehicle depart-		ed October 1996)
	airfoils		its launch pad. The action of an aircraft	GS	blowing
	airframes		comes airborne.	DT	tangential blowing
	boattails body-wing and tail configurations	GS	takeoff . vertical takeoff	RT	boundary layer control chords (geometry)
0	boom	RT	air traffic control		circulation control airfoils
	control surfaces	111	ascent		iet flaps
	elevators (control surfaces)		climbing flight		lift augmentation
	fins		JATO engines		spanwise blowing
	hydrofoils		landing		wing slots
	marine rudders		maneuvers		_
	missile structures		runways	tangent	
	rudders			GS	,
	sails stabilizers (fluid dynamics)	takeoff			. real variables
	vanes	KI	aircraft performance distance		periodic functions trigonometric functions
	varies		runway alignment		tangents
tail man	intinge		short takeoff aircraft		functions (mathematics)
tail mou	tail assemblies				. transcendental functions
JUL	40001151100	takeoff :	systems		periodic functions
tall!-			aircraft launching devices		trigonometric functions
tail plan					tangents
USE	horizontal tail surfaces	talc			geometry
L. 11		UF	steatite		. Euclidean geometry
tail roto		GS	magnesium compounds		analytic geometry
GS	rotating bodies . rotors		. <b>talc</b> minerals	DT	tangents
	. tail rotors		. talc	RT	chords (geometry)
	helicopter tail rotors		silicon compounds	tangling	1
RT	helicopter control		. silicates	RT	confusion
	rotary wings		sodium silicates		entrapment

and the a	first taulin	1
mixing	. fuel tanks	. tantalum nitrides
tank geometry	wing tanks . cryogenic tanks	tantalum oxides
GS geometry	. propellant tanks	GS chalcogenides
. tank geometry	. spherical tanks	. 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	∞ containers	
	drums (containers)	Tanzania
tank trucks	fluid filled shells	GS nations
GS surface vehicles	liquid filled shells	. Tanzania
. motor vehicles	materials handling	RT Africa
trucks	pipe nozzles	
tank trucks	pressure vessels	tape recorders
RT ∞ tankers	receivers	UF magnetic tape recorders
trailers	∞ structures	GS recording instruments
tanker aircraft	tank geometry	. tape recorders
GS transport aircraft	towers	video tape recorders
. tanker aircraft	wing-fuselage stores	RT data recorders
RT air to air refueling		electronic recording systems
∞ aircraft	tantalum	magnetic tape transports
aircraft fuels	GS chemical elements	magnetic tapes
bomber aircraft	. tantalum	∞ recorders
fuel tanks	tantalum isotopes	recording heads
∞ military aircraft	metals	,
∞ tankers	. refractory metals	taper
Valiant aircraft	tantalum	USE tapering
Tanan anotar	tantalum isotopes	to a section to the section of
tanker ships	. transition metals	tapered columns
GS surface vehicles	tantalum	GS structural members
. cargo ships	tantalum isotopes	. columns (supports)
. tanker ships	refractory materials	tapered columns
water vehicles	. refractory metals	Annual colores
. ships	tantalum	tapered wings
cargo ships	tantalum isotopes	USE swept wings
tanker ships		Annual or
RT artificial harbors	tantalum alloys	<b>tapering</b> UF <i>taper</i>
deepwater terminals	GS alloys	'
harbors	. heat resistant alloys	•
marine transportation	refractory metal alloys	deceleration
offshore docking	tantalum alloys	∞ reduction
offshore platforms	refractory materials	∞ tapes
shipyards	. refractory metal alloys	SN (USE OF A MORE SPECIFIC TERM IS
∞ tankers	tantalum alloys	RECOMMENDEDCONSULT THE TERMS
wharves	RT hafnium alloys	LISTED BELOW)
		RT adhesives
tanker terminals	tantalum carbides	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	to delice and the	playbacks
offshore platforms	tantalum compounds	punched tapes
ship terminals	GS tantalum compounds	ribbons
∞ tankers	. tantalum carbides	seals (stoppers)
terminal facilities	. tantalum nitrides	splicing
transportation	. tantalum oxides	video tapes
toulsone	RT ∞ chemical compounds ∞ Group 5B compounds	· · · ·
• tankers		taps
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	∞ metal compounds	RT cutters drills
LISTED BELOW)	tantalum icotones	machine tools
RT artificial harbors	tantalum isotopes GS chemical elements	tools
deepwater terminals	GS chemical elements . nuclides	10015
offshore docking		tar sands
offshore platforms	isotopes tantalum isotopes	GS resources
tank trucks	. tantalum	. Earth resources
tanker aircraft	tantalum isotopes	tar sands
tanker ships	metals	sediments
tanker terminals	. refractory metals	. sands
transportation energy	tantalum	tar sands
tanka (sambat yahialas)	tantalum isotopes	soils
tanks (combat vehicles) GS surface vehicles	. transition metals	. sands
. tanks (combat vehicles)	tantalum	tar sands
	tantalum isotopes	RT distillation
RT armed forces	refractory materials	oil exploration
RT armed forces military operations		oil fields
military operations	. refractory metals	
military operations ∞ military vehicles	. refractory metals tantalum	oils
military operations ∞ military vehicles ordnance		oils tars
military operations ∞ military vehicles ordnance ∞ vehicles	tantalum	
military operations ∞ military vehicles ordnance	tantalum	
military operations ∞ military vehicles ordnance ∞ vehicles	tantalum <b>tantalum isotopes</b>	tars
military operations ∞ military vehicles ordnance ∞ vehicles weapons	tantalum tantalum isotopes tantalum nitrides	tars  TARE (data reduction)
military operations  ∞ military vehicles ordnance ∞ vehicles weapons  tanks (containers)	tantalum tantalum isotopes  tantalum nitrides GS nitrogen compounds	tars  TARE (data reduction)
military operations  ∞ military vehicles ordnance ∞ vehicles weapons  tanks (containers) GS tanks (containers)	tantalum tantalum isotopes  tantalum nitrides GS nitrogen compounds . nitrides	tars  TARE (data reduction)  USE data reduction
military operations ∞ military vehicles ordnance ∞ vehicles weapons  tanks (containers) GS tanks (containers) . bunkers (fuel)	tantalum tantalum isotopes  tantalum nitrides GS nitrogen compounds . nitrides metal nitrides	tars  TARE (data reduction)  USE data reduction  target acquisition

systems in the direction and range to lock on a UF towed targets RT Australia targets target. ĞS acquisition Jindivik target aircraft taste target acquisition laser targets gustatory perception UF RT . particle accelerator targets detection perception GS high alt target and background . radar targets sensory perception . radar target scatter site program measurement . 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 radar echoes ... Firebee 2 target drone aircraft Taurid meteoroids . Jindivik target aircraft Sandpiper target missile 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 locked between the feeters and the contractions of the second of the seco . tars T Tauri stars RT asphalt gums (substances) tautomers pitch (material) congeners tar sands isomers dark adaptation are factors. 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 GS detection ∞ zoology . target recognition 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 . Taylor instability (added December 1990) radar homing missiles planning stability radar signatures task planning (robotics) . dynamic stability signature analysis robotics . motion stability
. . . flow stability
. . . Taylor instability signatures robots stealth technology scheduling surveillance density distribution Goertler instability tasks targets teleoperators TRADEX radar system telerobotics interface stability perturbation theory target simulators tasks rotating fluids ĞS simulators two dimensional flow UF iobs target simulators GS tasks computerized simulation auditory tasks Taylor manifest anxiety scale display devices visual tasks RT anxiety scene generation costs physiological tests crew procedures (inflight) psychological effects target thickness crew procedures (preflight) psychological tests GS 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 targets DEF Objects or points toward which some-thing is directed. Objects which reflect a suffi-cient amount of a radiated signal to produce an echo signal on detection equipment. Used for . real variables . . series (mathematics) Tasmania ... power series landforms

. islands

Tasmania

.... Taylor series

. . . . . MacLaurin series

towed targets

RT theorems . nanotechnology ∞ machinery . reactor technology Taylor theorem teams 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 TCV program mechanical properties USE Terminal Configured Vehicle rupturing shredding technology assessment Program GS assessments technology assessment TD satellites tearing modes (plasmas) Canadian space program GS artificial satellites Explosive reconnections of energetic Communications Technology Satellite . ESA satellites particle accelerations at high voltages in the Delphi method (forecasting) . . TD satellites magnetosphere during substorms. evaluation ... TD-1 satellite RT ballooning modes feasibility analysis . synchronous satellites modes 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 technetium fluorides The process of converting scientific . ESA satellites GS halogen compounds findings from research laboratories and govern-... TD satellites . fluorine compounds mental activities into commercially viable prod-... TD-1 satellite . . fluorides ... 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 . transition metals technology utilization radio relay systems . . technetium isotopes transferring satellite networks satellite transmission technical writing technology utilization telecommunication abstracts utilization 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 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 teachers technology transfer USE instructors tectonic movement technologies USE tectonics teaching
USE education technologies . biotechnology

. tissue engineering

. bubble technique
. energy technology
. geothermal technology

. marine technology

. military technology

teaching machines

learning

GS

training devices

machine learning

teaching machines

tectonics

DEF A branch of geology dealing with the broad architecture of the upper part of the Earth's crust, that is, the regional assembling of structural or deformational features, a study of

their mutual relations, their origin, and their

#### teetering

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 ... pulse frequency modulation . tectonics ... bediasites . neotectonics chondrites telemetry 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 micrometeorites . telemedicine fissures (geology) wideband communication natural satellites . wireless communication geophysics plates (tectonics) . . computer conferencing telechirics sea floor spreading . . HET experiment USE remote handling . video conferencing subduction (geology) RT access control antennas telecommunication TED DEF Any transmission, emission, or recep-USE transferred electron devices ARPA computer network tin of signs, signals, writings, images, sounds, or information of any nature by wire, radio, visual, automatic repeat request Tedlar (trademark) ∞ channels or electromagnetic systems. USE polyvinyl fluoride code division multiplexing communication systems communicating GS telecommunication communication networks 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 signal detectors signal encoding . . Aloha system ..... teflon (trademark) . . carrier sense multiple access . . . . fluoropolymers code division multiple access signal transmission . . . . polytetrafluoroethylene . . demand assignment multiple . teflon (trademark) ∞ signals ∞ systems TDR satellites access organic compounds . . frequency division multiple access . . time division multiple access . fluorine organic compounds . . fluorohydrocarbons telegraph systems . packet transmission . . . polytetrafluoroethylene teletypewriter systems . teflon (trademark) Aloha system television systems PLAT system . . fluoropolymers transcontinental systems pulse communication . polytetrafluoroethylene transmission teflon (trademark) . digital spacecraft television transmission circuits . radio communication . hydrocarbons transmission lines . . radio relay systems . . fluorohydrocarbons transmission rate (communications) . polytetrafluoroethylene code division multiple access transmitters . teflon (trademark) time division multiple access 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 GS 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 dioxide, bearing no relation to the geological formations in which they occur, and believed to teleconnections (meteorology)
DEF Statistically significant temporal correlations between meteorological parameters at Ranger block 3 television system . satellite television

stereotelevision

. telemetry

widely separated points.

974

GS

be of extraterrestrial origin.

celestial bodies

RT climatology single channel per carrier telegraph systems correlation transmission data correlation spiral antennas telerobotics (added December 1990) Earth atmosphere TDR satellites 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 statistical correlation robots teleoperator maneuvering system synoptic meteorology space tools USE teleoperators temporal distribution task planning (robotics) teleoperators teleoperators
DEF Remotely controlled mobility modules telegraph systems Telesat Canada 3 telegraphy which incorporate sensory and manipulative RT USE Anik 3 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 Telesat Canada B GS control equipment 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 telescopes remote handling robotics UF astronomical telescopes GS telescopes tactile sensors (robotics) telemedicine task planning (robotics) . celescopes (added May 1997) . circumsolar telescopes telerobotics DEF The use of telecommunication tech-. gamma ray telescopes torque sensors (robotics) nologies as a medium for providing medical . . Fermi Gamma-ray Space services (diagnostic, therapeutic, education, and research) by health care professionals to Telescope telephones . grazing incidence telescopes telephones ĞS sites that are remote from the provider. GRIST (telescope) radiotelephones telecommunication . heliometers earphones . telemedicine . . pyroheliometers telephony utilities aerospace medicine . infrared telescopes biotelemetry Large Deployable Reflector diagnosis . . Space Infrared Telescope Facility medical electronics telephony . manned orbital telescopes medical equipment telecommunication . . Apollo telescope mount medical science . communication . particle telescopes medical services . . voice communication . radio telescopes teleconferencing ... telephony . . kilometer wave orbiting telescope . radio communication Very Large Array (VLA) telemeters . telephony Very Long Baseline Array (VLBA) reflecting telescopes
Large Deployable Reflector USE telemetry transmission telephony telemetry
DEF The science of measuring a quantity or communication equipment . Starsat telescope refracting telescopes
Schmidt telescopes crosstalk quantities, transmitting the results to a distant station, and there interpreting, indicating, and/or echo suppressors . spaceborne telescopes Iridium network radiotelephones . . Constellation-X recording the quantities measured. Used for single channel per carrier . . Fermi Gamma-ray Space telemeters. Telescope

German Infrared Laboratory

Hubble Space Telescope

Infrared Space Observatory (ISO)

James Webb Space Telescope

Large Deployable Reflector transmission UF telemeters sound transmission GS telecommunication Symphonie satellites . telemetry telephones . . biotelemetry P.A.C.M. telemetry verbal communication . . PCM telemetry . . radio telemetry . . LIRTS (telescope) telephotometers ... pulse frequency modulation solar optical telescope USE telephotometry Space Infrared Telescope Facility telemetry transmission Starlab telephotometry . signal transmission Starsat telescope The body of principles and techniques . . telemetry X Ray Astrophysics Facility concerned with measuring atmospheric extinc-... biotelemetry . . XMM-Newton telescope tion using various types of telephotometers. P.A.C.M. telemetry spectroscopic telescopes Used for telephotometers. ... PCM telemetry . . multispectral tracking telescopes telephotometers . . . radio telemetry . . stratoscope telescopes GS optical measurement . . . . pulse frequency modulation . ultraviolet telescopes . photometry telemetry . . Starlab telephotometry Advanced Range Instrumentation . x ray telescopes astronomical photometry Aircraft Constellation-X optical measuring instruments communication equipment X Ray Astrophysics Facility photometers data compression . XMM-Newton telescope transmissometers data links anisoplanatism data retrieval antennas astronomical observatories data transmission teleprinters astronomy balloon-borne instruments decommutators printers differential pulse code modulation teleprinters in-flight monitoring typewriters binoculars measuring instruments . teletypewriters Cassegrain optics coronagraphs pulse communication teleprinters radio communication keying printers (data processing) etalons eyepieces ship to shore communication

receivers

signal processing

lenses

mirrors ... telluric lines ∞ receiving multi-anode microchannel arrays . . electromagnetic spectra optical coatings television systems . . . line spectra GS television systems optical equipment ... telluric lines . Advanced Vidicon Camera System (AVCS) optical measuring instruments . spectral bands optical transfer function . . absorption spectra cable television telluric lines periscopes closed circuit television reflectors RT H lines Schmidt cameras color television seeing (astronomy) . digital television tellurides solar instruments . . digital spacecraft television GS chalcogenides spaceborne astronomy educational television . tellurides high definition television . . bismuth tellurides ultraviolet astronomy PLAT system . . cadmium tellurides telescoping structures spacecraft television . . indium tellurides USE folding structures . . digital spacecraft television . . lanthanum tellurides ... Ranger block 3 television system . . lead tellurides Telesto . satellite television . . mercury tellurides (added January 1996) stereotelevision ... mercury cadmium tellurides DEF A natural satellite of Saturn orbiting at communication equipment . . tin tellurides a mean distance of 294,660 kilometers. Earth terminals . zinc tellurides celestial bodies facsimile communication tellurium compounds . natural satellites imaging techniques . tellurides . . Saturn satellites orbit spectrum utilization . . bismuth tellurides . . cadmium tellurides . . Telesto radio communication space communication Saturn (planet) . . indium tellurides ∞ systems . . lanthanum tellurides teletypewriter systems telecommunication . . lead tellurides video communication . . mercury tellurides facsimile communication microwave transmission video conferencing ... mercury cadmium tellurides ∞ systems . . tin tellurides video data telecommunication . zinc tellurides teletypewriters television transmission RT intermetallics transmission teletypewriters . electromagnetic wave transmission tellurium typewriters . television transmission chemical elements GS . metalloids teletypewriters signal transmission . . television transmission automatic picture transmission . teleprinters . . tellurium keying . . . tellurium isotopes receivers cable television . nuclides telegraph systems closed circuit television . . isotopes teletypewriter systems color television ... tellurium digital television . . . . tellurium isotopes television cameras direct broadcast satellites GS optical equipment tellurium 119 double sideband transmission . cameras USE tellurium isotopes high definition television . television cameras line of sight communication tellurium alloys photographic equipment Molniya satellites . cameras radio transmitters GS alloys television cameras satellite television . tellurium alloys television equipment satellite transmission . television cameras camera tubes tellurium compounds
GS tellurium compounds single sideband transmission closed circuit television . tellurides spacecraft television digital cameras . . bismuth tellurides sweep frequency Lallemand cameras . . cadmium tellurides time division multiplexing . . indium tellurides optical scanners transmitters orthicons wave propagation . . lanthanum tellurides raster scanning . . lead tellurides return beam vidicons Tellegen theory . . mercury tellurides USE gyrators ... mercury cadmium tellurides satellite television network analysis . . tin tellurides television equipment network synthesis zinc tellurides GS television equipment RT ∞ chemical compounds image dissector tubes telluric currents . monoscopes DEF Large scale surges of electric charges television cameras within the Earth's crust, associated with disturtellurium isotopes television receivers bances of the ionosphere. Used for earth curtellurium 119 chemical elements cathode ray tubes . metalloids diplexers Earth currents ∞ equipment electric current . . tellurium GS flying spot scanners telluric currents . . . tellurium isotopes . nuclides electricity picture tubes . geoelectricity . . isotopes . video equipment . telluric currents atmospheric electricity .... tellurium isotopes television receivers auroral electrojets GS receivers dynamo theory tellurometers television receivers field aligned currents measuring instruments . distance measuring equipment television equipment geomagnetic micropulsations television receivers . tellurometers closed circuit television RT geodimeters telluric lines Absorption lines in a solar spectrum tuners range finders produced by constituents of of the atmosphere

of the Earth itself rather than by gases in the

outer solar atmosphere such as those respon-

sible for the Fraunhofer lines.

radiation spectra

. . absorption spectra

spectra

GS

telomeres

(added October 2004)

chromosomes

Terminal section of a chromosome in-

volved in chromosomal replication and stability.

chromosome aberrations

#### 976

television reception

signal reception

color television

radio receivers

radio reception

television reception

genes

#### Telstar 1 satellite

GS artificial satellites

- . Telstar satellites
- ... Telstar 1 satellite

#### Telstar 2 satellite

GS artificial satellites

- . Telstar satellites
- ... Telstar 2 satellite

#### Telstar project

GS programs . projects

Telstar project RT

artificial satellites

communication satellites

Comsat program

#### Telstar satellites

artificial satellites

. Telstar satellites

Telstar 1 satellite

Telstar 2 satellite Comsat program

Thor Delta launch vehicle

TEM (microscopy)

transmission electron microscopy

#### 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.

GS celestial bodies

. comets

. Tempel 2 comet

RT ∞ coma

meteoroids solar system Tempel 1 comet

## temper (metallurgy)

cold working RT ductility hardness heat treatment tempering

## temperate regions

UF midlatitudes subtropical regions

GS regions

temperate regions

RT climatology geography polar regions tropical regions

#### temperature

DEF 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).

UF body temperature (non-biological)

#### GS 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 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 conductors

thermal protection thermal radiation thermal reactors thermal resistance thermal resources thermal shock

thermal simulation thermal stability thermal stresses thermal vacuum tests

thermodynamic efficiency thermodynamic properties

ventilation

#### temperature compensation

instrument compensation . temperature compensation

 $RT \propto compensation$ 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 cooling (buildings) space heating (buildings) spacecraft temperature

temperature thermal control coatings thermal cycling tests thermal insulation thermochromic coatings thermometers thermoregulation thermostats transpiration ventilation

## temperature dependence

water heating

The characteristic of a material which is dependent on changes in the ambient temperature.

dependence

. temperature dependence

#### temperature distribution

RT heat affected zone ocean temperature wind tunnel calibration hot corrosion potential gradients miscibility gap stratification temperature measuring instruments temperature temperature temperature indicators temperature effects thermal analysis temperature instruments thermal degradation thermal mapping thermograms thermal stability thermocapillary migration measuring instruments thermomigration . temperature measuring temperature differences thermophoresis instruments USE temperature gradients . . bathythermographs temperature indicators . . optical pyrometers temperature distribution USE indicating instruments . . pneumatic probes temperature fields temperature measuring . . pyrometers GS distribution (property) instruments ... radiation pyrometers temperature distribution ... thermocouple pyrometers RT temperature instruments air conditioning . . temperature probes USE temperature measuring cooling . . thermometers cooling systems instruments . . resistance thermometers environmental engineering anomalous temperature zones temperature inversions field theory (physics) bolometers heat treatment GS inversions bomb calorimeters temperature inversions heating calorimeters air pollution isothermal flow drop calorimeters isothermal layers atmospheric temperature flame calorimeters bending flame probes isotherms birefringence ocean temperature temperature thermistors thermocouples refrigerating buckling satellite temperature cracking (fracturing) cracks temperature thermopiles thermal mapping creep properties thermostats thermal resources deflection transducers deformation thermal shock displacement thermal stresses temperature probes distortion thermography measuring instruments GS ventilation failure . temperature measuring instruments vertical distribution fatigue (materials) temperature probes internal pressure water temperature temperature lapse rate thermocouples mechanical properties temperature effects meteorological parameters heat effects temperature profiles photothermotropism meteorology RT heat transfer photoelastic analysis . Richardson-Dushman equation temperature plastic deformation thermal effects thermal analysis thermotropism pressure RT ablation pressure effects temperature ratio absolute zero residual stress GS ratios Saint Venant principle chemical effects temperature ratio shear properties shrinkage data correlation effects Ettingshausen effect heat transfer strain gages glass transition temperature temperature heat affected zone strain hardening temperature scales
UF fahrenheit temperature scale jet blast effects strain rate magnetic effects stress analysis Nernst-Ettingshausen effect international practical temperature stress relaxation Peltier effects stress waves absolute zero anomalous temperature zones pressure effects stresses calibrating ∞ radiation structural strain  $\infty$  scale reentry effects temperature Seebeck effect tensile deformation standards shape memory alloys ∞ tension temperature solar granulation tephigrams thermometers sterilization effects torsion temperature sensitive paints temperature volumetric strain temperature dependence x ray stress analysis (added January 2003) DEF Luminescent paints which react differthermal buckling yield strength entially to temperature by emitting varying thermal degradation thermal dissociation temperature measurement amounts of visible light. thermal resistance pyrometry GS coatings thermometry . paints thermal stresses anomalous temperature zones . temperature sensitive paints thermogravimetry bolometers aerodynamic heating thermoluminescence brightness temperature fluorescence thermophoresis crayons heat transfer thermoplasticity gas temperature time temperature parameter luminescence high temperature nonintrusive measurement temperature fields in situ measurement surface temperature USE temperature distribution measurement temperature measurement thermal analysis noise temperature temperature gradients nonintrusive measurement thermochromic coatings temperature differences pyrometers radiation pyrometers GS gradients temperature sensors resistance thermometers temperature sensors . temperature gradients ĠS . thermoclines satellite temperature . thermistors sound detecting and ranging atmospheric temperature anomalous temperature zones

temperature

thermography

thermometers

temperature sensitive paints thermocouple pyrometers thermocouples

temperature

heat treatment

. tempering

annealing

tempering

GS

RT

bathythermographs

isothermal layers

isotherms

Chapman-Enskog theory

convective heat transfer

nonisothermal processes

∞ 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 cable force recorders templates 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  $\infty \ tension$ bers in compression. These members can serve (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) simultaneously as sensors, actuators, and load temporal distribution carrying elements. The word tensegrity is a DEF The statistical distribution based on contraction of "tensional integrity". blood pressure time of phenomena, occurrences or events. tensegric structures interfacial tension annual variations tensile-integrity structures partial pressure 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 RT 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 elongation scalars time intervals. Used for multitemporal analysis. plastic deformation scalers temperature inversions multitemporal analysis tensors GS resolution temporal resolution tensile properties tensor fields RT 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 UF . musculoskeletal system DEF The property of solid material that intransformation tensors . . muscles dicates its ability to withstand a uniaxial tensile GS algebra . tensors . . tendons load. GS mechanical properties connective tissue . stress tensors . tensile properties fibroblasts field theory (physics) tensile strength Jordan form RT 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 Japanese spacecraft temperature inversions ∞ 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 ĞS stresses . . . terbium isotopes tensile stress metals x ray spectra 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

load tests

static tests

specimen geometry

Tennessee Valley (AL-KY-TN)

Alabama Kentucky terbium compounds

GS rare earth compounds

. terbium compounds

RT terbium ∞ vehicles cluster variation method

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

. TERCOM

onboard equipment . airborne equipment

TERCOM

. aircraft equipment

TERCOM

display devices flight instruments

map matching guidance navigation instruments

systems

video landmark acquisition and tracking

terephthalate

terephthalate GS

. 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

GS ballistics

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

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)

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

. 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

abbreviations dictionaries

indexing (information science)

nomenclatures thesauri words (language)

terms

indexing (information science) information theory thesauri

words (language)

ternary alloys GS allovs

. ternary alloys

. Astroloy (trademark)

RT alloying

antiphase boundaries

ternary systems

RT alloys

binary systems (materials)

solid solutions ∞ systems

ternary systems (digital)

USE digital systems

terpenes

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 GS

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 sea floor spreading

terraforming

(added September 1993) environmental engineering exobiology

lunar bases

lunar environment manned Mars missions Mars (planet) Mars environment Mars surface planetary atmospheres planetary environments space colonies space habitats Venus surface

#### terrain

landscape GS topography terrain

digital elevation models geomorphology landforms landmarks

#### terrain analysis

UF SATAN (sensor) RT ∞ analyzing change detection digital elevation models Earth analogs Earth resources EROS (satellites) geographic applications program hologrammetry mapping multisensor fusion nap-of-the-earth navigation photogrammetry reconnaissance satellite surfaces soil mapping soil sampling video landmark acquisition and tracking

Terrain Contour Matching Navigation System USE TERCOM

#### terrain following

(added February 1995)

DEF The flight path of an aircraft, helicopter, or missile at a constant altitude above the terrain or highest obstacle. The altitude constantly changes to conform to the varying height of the terrain and/or obstacles.

GS maneuvers

. terrain following

navigation

. air navigation

... nap-of-the-earth navigation

. . terrain following

attack aircraft cruise missiles evasive actions flight envelopes hovering low altitude map matching guidance military helicopters obstacle avoidance penetration

## terrestrial dust belt

particles

. dust

. terrestrial dust belt

RT ∞ belts cosmic dust gegenschein meteoroid dust clouds micrometeoroids zodiacal dust

terrestrial magnetism USE geomagnetism

#### terrestrial planets

DEF The four small planets nearest the sun (Earth, Mercury, Venus, and Mars).

GS celestial bodies

. planets

terrestrial planets

... Earth (planet)

... Mars (planet) Mercury (planet) Venus (planet) celestial mechanics Mercury surface planetary environments planetology solar system

#### terrestrial radiation

(EXCLUDES ATMOSPHERIC RADIATION AND REFLECTED VISIBLE LIGHT) Earth radiation

electromagnetic radiation

terrestrial radiation atmospheric radiation CERES (experiment)

Earth (planet) Earth albedo

Earth radiation budget

Earth radiation budget experiment

extraterrestrial radiation far infrared radiation areenhouse effect infrared radiation MISR (radiometry) near infrared radiation planetary radiation ∞ radiation

tropospheric radiation

#### terrier missile

GS missiles

. antiaircraft missiles

. . terrier missile

. surface to air missiles

terrier missile

Bumblebee project multistage rocket vehicles solid propellant rocket engines

(added December 2001)

The use of violence, or threat of violence directed at civilian populations with the intention of intimidating or coercing a particular group, organization, or government, often for ideological or political reasons.

GS crime

. terrorism

air piracy aircraft safety airport security biological weapons

computer information security

explosives detection flight safety

sabotage security violence

#### **Tertiary Period**

(added June 1989) Cenozoic Era

Tertiary Period

Cretaceous Period

Cretaceous-Tertiary boundary

geochronology paleontology Quaternary period

#### tesseral harmonics

GS analysis (mathematics) . functional analysis

. . harmonic analysis

... tesseral harmonics

harmonics

. tesseral harmonics

satellite perturbation

test beds

USE test stands

# test chambers

DEF Places, sections, or rooms having special characteristics where a person or object is subjected to experiment, as an altitude chamber. Used for environmental chambers.

UF environmental chambers

GS compartments

#### . test chambers

. . anechoic chambers

. . pressure chambers

... hyperbaric chambers

... vacuum chambers

. reverberation chambers

# RT ∞ capsules

cryogenic wind tunnels environment models environment simulators environmental control environmental laboratories environmental tests thermal vacuum tests vacuum tests wind tunnels

#### $\quad \ \, \infty \ \, \text{test equipment}$

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

checkout equipment

testers

testing machines

analyzers astrionics

automatic test equipment

avionics

capsules CEFOAM checkout equipment

centrifuges checkout dynamometers

Earth terminal measurement system

electronic equipment tests

∞ equipment

fatigue testing machines free flight test apparatus frequency analyzers geophysical fluid flow cells ground support equipment Hartmann-Sprenger tubes hypersonic test apparatus impact testing machines load testing machines measuring instruments

monoscopes onboard equipment rocket propelled sleds

samplers simulators

supersonic test apparatus

test facilities

test pattern generators test stands wind tunnel models

wind tunnels

### test facilities

## GS test facilities

anechoic chambers Central Atlantic Regional Ecol Test Site

engine testing laboratories

environmental laboratories

hydraulic test tunnels

. reverberation chambers

. rocket test facilities

. test ranges

. . ballistic ranges

. . missile ranges

. test stands

. Transient Reactor Test Facility

. wind tunnels

. . blowdown wind tunnels

. . combustion wind tunnels . . cryogenic wind tunnels

. . hypersonic wind tunnels

. . . cascade wind tunnels

. . . hotshot wind tunnels

. . . plasma jet wind tunnels

shock tunnels

. . hypervelocity wind tunnels ... cascade wind tunnels

. . . hotshot wind tunnels

. . . plasma jet wind tunnels

. . . shock tunnels . . low density wind tunnels

. . low speed wind tunnels

aubaania wind tunnala		hallistia vahialaa	autropolation	
subsonic wind tunnels		ballistic vehicles	extrapolation	
rectangular wind tunnels	۰	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		missile tests	full scale tests	
flight simulators		missiles	ground tests	
laboratories		reentry vehicles	hardness tests	
models		research aircraft	high altitude tests	
motion simulators		rocket vehicles	•	
research facilities	۰	spacecraft	high temperature tests	
shock tubes	۰	tests	impact tests	
simulators		towed bodies	in vitro methods and tests	
solar simulators	0	vehicles	in vivo methods and tests	
spacecraft cabin simulators			intelligence tests	
∞ test equipment	testers		laboratories	
∞ tests	USE	test equipment	load tests	
			low temperature tests	
test firing	testes		lubricant tests	
DEF The firing of a rocket engine, either live	GS	anatomy		
or static, with the purpose of making controlled		. genitourinary system	∞ materials tests	
observations of the engine or of an engine		reproductive systems	median (statistics)	
		sex glands	missile tests	
component.		gonads	nondestructive tests	
GS firing (igniting)		testes	notch tests	
. test firing			orbital space tests	
static firing		. glands (anatomy)	patch tests	
RT engine tests		endocrine glands	performance tests	
fuel tests		gonads	personality tests	
ground tests		testes	physiological tests	
missile tests		sex glands	prefiring tests	
prefiring tests		gonads		
prelaunch tests		testes	preflight analysis	
rocket firing			prelaunch tests	
rocket filling	testing		program verification (compu	ters)
	USĔ	tests	propellant tests	
static tests	002		proving	
∞ tests	testina	machines	psychological tests	
		test equipment	qualifications	
test pattern generators	OOL	test equipment	quality	
DEF Image-processing software.	testing	time	quality control	
RT ∞ faults	GS	time	railroad humping tests	
∞ generators	ao	. testing time	rank tests	
∞ patterns	рт	•	reactor startup tests	
∞ test equipment	RT	burning time		
• •		engine tests	records	
		fatigue tests	reliability	
test pilots		fatigue tests flight time	reliability resonance testing	
test pilots GS personnel	۰	fatigue tests flight time tests	reliability resonance testing Rorschach tests	
test pilots GS personnel . flying personnel	۰	fatigue tests flight time	reliability resonance testing Rorschach tests salt spray tests	
test pilots GS personnel flying personnel pilots (personnel)	۰	fatigue tests flight time tests	reliability resonance testing Rorschach tests	
test pilots GS personnel . flying personnel . pilots (personnel) aircraft pilots	۰	fatigue tests flight time tests turnaround (STS)	reliability resonance testing Rorschach tests salt spray tests	
test pilots  GS personnel . flying personnel . pilots (personnel) . aircraft pilots test pilots	∘ ∞ tests	fatigue tests flight time tests turnaround (STS)	reliability resonance testing Rorschach tests salt spray tests sampling	
test pilots  GS personnel . flying personnel . pilots (personnel) . aircraft pilots test pilots . operators (personnel)		fatigue tests flight time tests turnaround (STS) windows (intervals)  (USE OF A MORE SPECIFIC TERM IS	reliability resonance testing Rorschach tests salt spray tests sampling selection	
test pilots  GS personnel . flying personnel . pilots (personnel) . aircraft pilots . test pilots . operators (personnel) . pilots (personnel) . pilots (personnel)	∞ tests	fatigue tests flight time tests turnaround (STS) windows (intervals)  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	reliability resonance testing Rorschach tests salt spray tests sampling selection self tests	
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altitude tests

#### tethered satellites knowledge . amines DEF Concept for scientific payloads sus-. tetrafluorohydrazine learning pended at altitudes of 120 km from Space 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 GS artificial satellites . Euclidean geometry textiles . tethered satellites . . polygons GS textiles reels ... tetragons . cotton fibers . . . . parallelograms linen tethering . . . . rhomboids . rayon RT orbital rendezvous . . . . rectangles RT clothing reels .... squares (mathematics) cotton tetherlines . . . . trapezoids fabrics fibers tetrahedrons tetherlines vapor barrier clothing anchors (fasteners) RT GS geometry wet spinning Euclidean geometry ∞ cables ∞ lines . . polyhedrons texts tethering . tetrahedrons GS documents towed bodies RT triangles . texts umbilical connectors RT format tetrahydrofuran records DEF In organic chemistry, an intermediate Tethys One of the natural satellites of Saturn and a solvent for polyvinyl chloride. Used for DFF textures butylene oxides. orbiting at a mean distance of 295,000 kilome-The structural qualities of surfaces de-UF butylene oxides termined by the interrelation of their elements. GS celestial bodies GS organic compounds curl (materials) . natural satellites . cyclic compounds fineness .. icy satellites . . heterocyclic compounds Gabor filters Tethys . . . furans mechanical properties . . Saturn satellites . tetrahydrofuran porosity . Tethys solvents surface properties RT Saturn (planet) tetrahydrofuran additives TF-30 engine tetrabutyls ∞ chemical compounds GS engines alkyl compounds GS plastics . air breathing engines tetrabutyls polyvinyl chloride . . gas turbine engines dibutyl compounds ... jet engines organometallic compounds tetranitrotetrazacyclooctane . . . . turbojet engines . . . . turbofan engines USE HMX tetrachlorides . . . . . TF-30 engine . aircraft engines GS halogen compounds tetraphenyls . chlorine compounds GS phenyls . TF-30 engine . . chlorides . polyphenyls . internal combustion engines . . tetrachlorides . . tetraphenyls . . gas turbine engines . halides . . . jet engines . . chlorides tetrazoles . . . . turbojet engines . . . tetrachlorides organic compounds . . . . 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 RT 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 USE superpressure balloons . . . jet engines tetrad theory . . . . turbojet engines chromosomes tetrvi . . . . turbofan engines explosives ĞS miosis . TF-34 engine tetryl spores nitrogen compounds . aircraft engines ∞ theories . TF-34 engine . nitro compounds . internal combustion engines tetraethyl orthocarbonates . . gas turbine engines organic compounds carbon compounds . . . jet engines . amines . carbonates . . . . turbojet engines . . tetraethyl orthocarbonates . tetryl . . . . . turbofan engines propellants . TF-34 engine tetraethyl orthosilicate tetryl . turbine engines DEF An oxidation inhibiting coating used on . . gas turbine engines the wing leading edges and nose cap of the texas . . . jet engines Space Shuttle. GS nations . United States .... turbojet engines adhesives GS . . . . turbofan engines tetraethyl orthosilicate . texas Gulf of Mexico . TF-34 engine RT ethyl compounds RT RT convertible fan-shaft engines glues Houston (TX) Lake Texoma (OK-TX) silicates TF-41 engine Rio Grande (North America) tetrafluorohydrazine GS engines halogen compounds textbooks . air breathing engines . fluorine compounds documents . . gas turbine engines GS . . fluoro compounds . textbooks . . . jet engines

educational resources

textbooks

education

handbooks

RT

tetrafluorohydrazine

. tetrafluorohydrazine

organic compounds

hydrazines

. . . . turbojet engines

..... **TF-41 engine** . aircraft engines

.. TF-41 engine ... thematic mappers (LANDSAT) . Richards theorem . internal combustion engines Riesz theorem remote sensors . . 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 RT hypotheses mathematical logic . . . jet engines remote sensing . . . . 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 GS 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 theodolites ∞ physics 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 unified field theory tion angle. thallium GS measuring instruments Yang-Mills theory GS chemical elements . optical measuring instruments . thallium . . transits . . thallium isotopes ∞ theories theodolites (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) metals SN . cinetheodolites . thallium optical equipment . thallium isotopes Abrikosov theory . optical measuring instruments thallium compounds assumptions . . transits atomic theory ... theodolites thallium alloys automata theory . . cinetheodolites GS alloys BCS theory RT sextants . thallium alloys Bellman theory bending theory Theodorsen transformation thallium compounds Bessel-Bredichin theory airfoil profiles RT ∞ metal compounds complex variables bimetric theories thallium Bogoliubov theory conformal mapping Bohr theory coordinate transformations thallium isotopes Born-Infeld theory Joukowski transformation GS chemical elements catastrophe theory Chapman-Enskog theory communication theory . nuclides pressure distribution . . isotopes theorem proving . thallium isotopes control theory Crocco-Lee theory Debye-Huckel theory GS problem solving . thallium theorem proving . . thallium isotopes proving metals decision theory theorem proving . thallium density functional theory RT artificial intelligence .. thallium isotopes diffusion theory computer programming thawing predicate calculus dynamo theory theorems Dyson theory USE melting Eyring theory theorems field mode theory THC (oceanography) (added February 2002) UF lemmas field theory (algebra) GS theorems field theory (physics) USE thermohaline circulation addition theorem finite difference theory Bayes theorem flow theory Thebe Bernoulli theorem (added January 1996) fluctuation theory DEF A natural satellite of Jupiter orbiting at binomial theorem Foster theory a mean distance of 221,900 kilometers. Castigliano variational theorem game theory GS celestial bodies duality theorem gauge theory equipartition theorem geometrical theory of diffraction . natural satellites . . Jupiter satellites existence theorems Gestalt theory Floquet theorem . . Thebe Glauber theory Gauss-Markov theorem RT Jupiter (planet) goal theory Hellmann-Feynman theorem graph theory gravitation theory Griffith crack thematic mappers (LANDSAT) Kakutani theorem

Lebesgue theorem

Pomeranchuk theorem

group theory

Hansen lunar theory

Heisenberg theory Hill lunar theory

homotopy theory

Hueckel theory

Liouville theorem

Poynting theorem reciprocal theorems

. reciprocity theorem

Michell theorem

DEF Landsat multispectral scanners de-

signed to acquire data to catagorize the Earth's

surface. Particular emphasis was placed on

. . multispectral band scanners

agricultural applications and land use.

optical equipment

. optical scanners

hypotheses information theory 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

therapy

- . chemotherapy
- gene therapy
- . massaging
- . psychotherapy
- radiation therapy

cures diseases

healing medical equipment

patients

respirators

skin grafts

#### thermal absorption

energy absorption
. thermal absorption

. polar cap absorption

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).

UF differential thermal analysis

DTA (analysis)

 $RT \, \infty \, analyzing$ heat transmission temperature temperature gradients temperature profiles temperature sensitive paints

#### thermal barriers (plasma control)

RT ∞ 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

thermal lensing

thermal blooming

RT laser cutting laser heating

laser outputs

lasers

photon beams temperature

#### thermal boundary layer

GS

boundary layers
. 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

That condition which expresses satisfaction with the thermal environment and which is measured by such factors as air temperature, relative humidity, air velocity, etc.

heat stroke

temperature

thermal environments

#### thermal conductivity

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

SN (GAGES FOR MEASURING THERMAL CONDUCTIVITY-EXCLUDES GAGES USING THERMAL CONDUCTIVITY TO MEASURE OTHER PROPERTIES OR VARIABLES)

GS measuring instruments

thermal conductivity gages

RT temperature

#### thermal conductors

conductors

thermal conductors

RT ∞ conduction

conductive heat transfer electric conductors temperature

#### thermal control coatings

coatings GS

. thermal control coatings

ablative materials

∞ 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

RT 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

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

Chapman-Enskog theory

∞ 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

GS chemical reactions

. thermal dissociation dissociation

. thermal dissociation

cracking (chemical engineering)

decomposition degradation gas dissociation heat of dissociation hydrogen production ionization plasmas (physics) temperature temperature effects

thermal effects

USE temperature effects

thermal efficiency

USE thermodynamic efficiency

#### 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
UF thermal agitation cogeneration RT

∞ energy

free energy geothermal energy conversion geothermal resources

heat

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

warpage

thermophysical properties

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

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 GS thermal lensing

. 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

planetary mapping quantum well infrared photodetectors

temperature

photomapping

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

temperature

biological effects 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 resistance.

heat resistance

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 tempera-ture 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

stability GS

# 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. GS 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

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

perveance semiconductor diodes

## thermionic emission

RT

DEF 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 UF

emission

. particle emission

thermionic emission

. thermal emission . thermionic emission electron emission

ion emission thermoelectricity work functions

## thermionic emitters

RT

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

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 displace-ment 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 tempera-ture 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

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

GS efficiency

. thermodynamic efficiency

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 internal combustion engines solubility thermoelectric cooling nozzle efficiency temperature Ettingshausen coolers GS power efficiency tephigrams cooling propulsion system performance thermal cycling tests . thermoelectric cooling propulsive efficiency thermal radiation RT cryogenics specific impulse Ettingshausen effect thermal resistance temperature heat pumps thermal shock thermodynamics Peltier effects thermochemistry refrigerating thermodynamics thermoluminescence refrigerating machinery thermodynamic equilibrium thermodynamics zero point energy DEF A very general result from statistical mechanics which states that if a system is in thermoelectricity thermomagnetic cooling equilibrium, all processes which can exchange thermodynamics DEF Study and application of principles describing the relation of heat transfer to various energy must be exactly balanced by the reverse thermoelectric generators 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 heat of dissociation thermomechanics SNAP 10A isentropic processes thermophysics SNAP 11 isochoric processes GS thermodynamics SNAP 15 isoenergetic processes aerothermodynamics SNAP 17 isothermal processes combustion physics SNAP 19 liquid-vapor equilibrium nonequilibrium thermodynamics 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 photoelectric generators radioisotope batteries . . heat of formation 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 . surface energy internal 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 . . heat of solution Mollier diagram thermoelectricity nonadiabatic conditions . . latent heat nongray gas ... heat of fusion Thermoelectric Outer Planet Spacecraft nonisothermal processes . heat of vaporization USE TOPS (spacecraft) Onsager relationship . thermophysical properties paths . . critical point thermoelectric power generation
UF thermoelectric conversion systems 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 SNAP plasmas (physics) 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 DEF Dependence of the stress distribution of an elastic solid on its thermal state, or of its . volatility thermoelectric cooling RT chemical properties thermoelectric generators thermal conductivity on the stress distribution.

GS mechanical properties diffusivity thermoelectric materials thermoelectric power generation emittance . elastic properties ∞ equilibrium thermopiles

.. thermoelasticity

aerothermodynamics

. . . aerothermoelasticity aeroelasticity

hydroelasticity thermoelectric generators

exergy

heat balance high temperature tests Joule-Thomson effect

optical properties

heat

transport properties

measuring instruments

. . thermoelement ammeters

thermoelement ammeters

. ammeters

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 Technique employing heat transfer DEF plastic deformation . . . Microcystis transients. . Nostoc quenching (cooling) infrared imagery nondestructive tests RT RT ∞ treatment algae 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 particle diffusion . thermometers 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) DEF A technique for efficiently converting thermomigration 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. made to migrate from the cool side of a wafer of matetrial whose photon emission peaks sharply THC (oceanography) circulation pure semiconductor material to the hotter side in a narrow wavelength. GS energy conversion when the wafer is heated in an oven. . water circulation . solar energy conversion
. photothermal conversion electromigration . thermohaline circulation heat transfer ocean currents RT ... thermophotovoltaic conversion temperature gradients 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 emission GS 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 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 GS 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) pairs of thermocouples which are connected Ettingshausen effect either in series or in parallel. Batteries of ther-mocouples connected in series to form single radioactive decay Nernst-Ettingshausen effect

Scvlla stellarators

algae

funai

thermophiles

zeta thermonuclear reactor

compact units.

GS thermocouples

. thermopiles

thermopiles

Dicke radiometers

transducers

thermomagnetism

USE thermomagnetic effects

Combination of material-forming pro-

cesses with heat treatments in order to obtain

thermomechanical treatment

thickness indicating instruments . 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 composite materials . . heterocyclic compounds . synthetic resins . . thermoplastic resins formica . thiamine ... thermoplastic films glass fiber reinforced plastics vitamins RT ∞ films laminates . thiamine polyester resins thermoplastic resins reinforced plastics thiazine (trademark) GS dyes GS plastics silicone resins thiazine (trademark) . synthetic resins thermoplastic resins . . thermoplastic resins nitrogen compounds ... PEEK . thiazine (trademark) 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 glass fiber reinforced plastics ∞ films Earth atmosphere polyethylenes polymer blends integrated circuits . upper atmosphere microminiaturization .. thermosphere printed circuits polystyrene . . turbopause thermoplasticity semiconducting films chemosphere superconducting films thermosetting resins Earth ionosphere thin films vulcanized elastomers Earth magnetosphere thick plates

DEF Plates of steel or other material that

The expect definition of exosphere thermoplasticity heterosphere mechanical properties GS 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 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) DEF 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 ∞ thickeners terminology . synthetic resins terms . . thermosetting resins thickeners (materials) words (language)

... epoxy resins

. . . furan resins

. . . . micarta

. . . . polyamide resins

. . . Kevlar (trademark)

.... phenolic epoxy resins

. . . . Nylon (trademark)
. . . phenolic resins

phenolic epoxy resins

theses

GS

RT

GS

theta pinch

documents

hypotheses

pinch effect

. plasma pinch

theses

#### 991

RT additives

thickness

gels

greases

∞ materials

∞ thickeners

thickness

. boundary layer thickness

RT	airfoil profiles		rectifiers		phenols
	depth		semiconducting films		·
	diameters		silicon films	thiophe	enes
	dimensions		solid state devices	(add	ed January 1995)
	film thickness	c	solid state physics	GS	organic compounds
	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
	thickness ratio		wafers		furans
	volume		YBCO superconductors		pyrroles
			yttria-stabilized zirconia		
	ess ratio			thioplas	
GS	ratios	thin lay	er chromatography	RT	elastomers
	. aspect ratio	GS	chemical tests		plastics
	thickness ratio		. chemical analysis		sulfides
RT	airfoil profiles		chromatography		
	airfoils		thin layer chromatography	thioure	
	dimensional analysis	RT	gas chromatography	GS	nitrogen compounds
	fineness ratio		monomolecular films		. amides
	thickness				ureas
	thin airfoils	thin pla	ates		thioureas
	thin wings	SN	(EXCLUDES THIN SURFACE COATINGS	thiuran	ium
		00	AND FILMS)	thiuron	
thigh		GS	structural members	GS	nitrogen compounds
GS	anatomy		. plates (structural members)		. amides
	. limbs (anatomy)		thin plates		ureas
	leg (anatomy)	RT	diaphragms (mechanics)		thiuronium
	thigh		flat plates		organic compounds
	appendages		foils (materials)		. amines
	. leg (anatomy)		metal plates		thiuronium
	thigh		panels	thivotro	pic propellants
			parallel plates		
thin air	foils		∞ plates	USE	gelled rocket propellants
GS	airfoils	c	∞ sheets	thixotro	nnv
	. thin airfoils		thick plates		The property of material that enables it
	thin wings	c	∞ thin bodies		n in a relatively short time on standing,
	infinite span wings				n agitation or manipulation to change to
RT	airfoil profiles		illed shells		soft consistency or to a fluid of high
	thickness ratio	GS	shells (structural forms)		y, the process being completely revers-
			. thin walled shells	ible.	y, the process being completely revers-
∞ thin bo	dies	RT	cylindrical shells	RT	golation
SN	(USE OF A MORE SPECIFIC TERM IS		membrane structures	nı	gelation
	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		metal shells		gels
RT	slender bodies		orthotropic shells		liquefaction
	thin plates		reinforced shells		nonNewtonian flow
	thin walls		skin (structural member)	۰	∘ physical properties
	thin wings		spherical shells		semisolids
	tilli wiligs		stressed-skin structures		solubility
thin filr	ne		toroidal shells		viscosity
SN	(SOLID STATE PHYSICS AND			Thomas	s-Fermi model
011	ELECTRONICS)	thin wa	ills		
DEF	Films having a thickness much smaller	GS	walls	UF	Thomas-Fermi theory
than an	y lateral dimension, formed by deposi-		. thin walls	GS	models
tion of a	a material or by a thinning process.	RT	bulkheads		. mathematical models
	thin films		diaphragms (mechanics)	DT	Thomas-Fermi model
	. diamond films		partitions (structures)	RT	atomic structure
	. energy absorption films		skin (structural member)		electron distribution
	. ferromagnetic films		thick walls		plasma composition
	. monomolecular films	c	∞ thin bodies		quantum statistics
	Langmuir-Blodgett films			Thomas	- Farmi the are
RT	amorphous silicon	thin wi	nas		s-Fermi theory Thomas-Fermi model
	atomic force microscopy	GS	airfoils	USE	momas-remi model
	atomic layer epitaxy		. thin airfoils	Thomso	on effect
	carbon nitrides		thin wings		thermoelectricity
	coatings		infinite span wings	OOL	thermoelectricity
	computer storage devices		. wings	Thomse	on scattering
	copper indium selenides		thin wings		scattering
	electrochromism		infinite span wings	0.0	. 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		ologicinagnotio radiation
	indium selenides	c	∞ thin bodies	Thor Al	ble rocket vehicle
	integrated circuits		uncambered wings	GS	launch vehicles
	integrated optics				. Thor launch vehicles
	ion plating	thinners	3		. Thor Able rocket vehicle
	Langmuir turbulence	USE	solvents		. Thorad launch vehicles
	metal films				. Thor Able rocket vehicle
	microchannel plates	thiols			rocket vehicles
	microminiaturization	UF	dithiols		. multistage rocket vehicles
	miniature electronic equipment	0.	mercaptan		. Thor launch vehicles
	molecular electronics		mercapto compounds		Thor Able rocket vehicle
	nanoparticles	GS	sulfur compounds		. Thorad launch vehicles
	oxide films	ao	. thiols		. Thor Able rocket vehicle
	parametrons		cysteine	RT	Explorer 6 satellite
	pellicle		dimercaprol	111	liquid propellant rocket engines
	plating	RT	alcohols		Pioneer 1 space probe
	praetersonic devices		∞ chemical compounds		Pioneer 5 space probe
	F				

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 GS 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 Thor launch vehicles 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 solid propellant rocket engines . . isotopes braided composites Thorad launch vehicles thorium isotopes fiber composites metals vehicles ∞ materials . actinide series woven composites Thorad launch vehicles . . thorium ... thorium isotopes launch vehicles three dimensional flow . Thorad launch vehicles GS fluid flow Thor Able rocket vehicle thorium oxides . parallel flow . . Thor Agena launch vehicle GS actinide series compounds ... three dimensional flow . . Thor Delta launch vehicle thorium compounds rocket vehicles ... Karman-Bodewadt flow . thorium oxides . Thorad launch vehicles . . secondary flow chalcogenides . . Thor Able rocket vehicle translational motion . oxides Thor Agena launch vehicle . . metal oxides . three dimensional motion . Thor Delta launch vehicle . . three dimensional flow ... thorium oxides liquid propellant rocket engines . . . Karman-Bodewadt flow RT dioxides ... secondary flow Thor launch vehicles ∞ vehicles RT axial flow thoron conical flow USE radon isotopes flow geometry thorax

threads

SN

RT

bolts

nuts (fasteners)

(EXCLUDES TEXTILES AND FILAMENTARY FORMS)

anatomy

thorax

diaphragm (anatomy)

breast

chest

GS

RT

helical flow

one dimensional flow

two dimensional flow

Roshko prediction

spherical waves

	wedge flow	responses	myocardial infarction
three di	mensional models	sensitivity threshold currents	throttling
	ed August 1988)	threshold detectors (dosimeters)	RT Joule-Thomson effect
	models	threshold gates	variable thrust
	. three dimensional models	threshold logic	
RT	computational grids	threshold voltage	throwing
	computer aided design	thresholds (perception)	RT ejection
	computerized simulation mathematical models		spreading
	rapid prototyping	thresholds (perception)	thrust
	two dimensional models	UF sensory thresholds	DEF The pushing or pulling force developed
		RT acuity adaptation	by an aircraft engine or a rocket engine. The
	mensional motion	audiometry	force exerted in any direction by a fluid jet or by
GS	translational motion	auditory perception	a powered screw, as, the thrust of an antitorque
	. three dimensional motion three dimensional flow	auditory sensation areas	rotor. Specifically in rocketry, F(thrust) = mv where m is propellant mass flow and v is ex-
	Karman-Bodewadt flow	auditory stimuli	haust velocity relative to the vehicle. Used for
	secondary flow	chronaxy	thrust power.
RT	degrees of freedom	frequency response hearing	UF thrust power
	optical flow (image analysis)	light adaptation	GS thrust
Alessania	Id	limen	. high thrust
GS	Id currents electric current	neurology	. jet thrust
do	. threshold currents	perception	. leading edge thrust
RT	lasers	photosensitivity	. low thrust microthrust
	threshold voltage	sensitivity	. rocket thrust
000	thresholds	∞ thresholds vision	retrothrust
		visual perception	. static thrust
	Id detectors (dosimeters)	visual perception	. variable thrust
GS	measuring instruments . radiation measuring instruments	throats	RT acceleration (physics)
	. radiation detectors	SN (NON BIOLOGICAL)	auxiliary propulsion
	dosimeters	DEF The narrowest portion of a constricted	burning time dual thrust nozzles
	threshold detectors	duct, as in a diffuser, or a venturi tube. SN (non	∞ force
	(dosimeters)	biological).	jet engines
RT	ionization chambers	RT carburetors	nozzle thrust coefficients
∞	thresholds	∞ channels chokes (restrictions)	∞ power
thresho	ld nates	ducts	propulsion
	circuits	nozzle geometry	∞ reaction
	. gates (circuits)	nozzle inserts	rocket engines rocket propellants
	threshold gates	nozzle walls	specific impulse
	. logic circuits	orifices	total impulse
	threshold gates		•
DT	Alexander all all a		
RT ∝	thresholds	thrombin	thrust augmentation
RT ∝	thresholds trigger circuits	GS biopolymers	DEF The increasing of the thrust of an en-
	trigger circuits	GS biopolymers . proteins	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine
thresho	trigger circuits	GS biopolymers . proteins enzymes	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the
thresho	trigger circuits  Id logic	GS biopolymers . proteins	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.
thresho GS	trigger circuits  Id logic mathematical logic . set theory threshold logic	GS biopolymers . proteins enzymes thrombin	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation
thresho GS RT	trigger circuits  Id logic mathematical logic . set theory threshold logic gates (circuits)	GS biopolymers . proteins enzymes <b>thrombin</b> body fluids	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.
thresho GS RT	trigger circuits  Id logic mathematical logic . set theory . threshold logic gates (circuits) logic	GS biopolymers . proteins . enzymes thrombin body fluids . blood . thrombin organic compounds	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation
thresho GS RT	trigger circuits  Id logic mathematical logic . set theory threshold logic gates (circuits) logic logic circuits	GS biopolymers . proteins . enzymes thrombin body fluids . blood . thrombin organic compounds . proteins	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust
thresho GS RT	trigger circuits  Id logic mathematical logic . set theory . threshold logic gates (circuits) logic logic circuits thresholds	GS biopolymers . proteins . enzymes thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation  thrust augmentation  RT afterburning  Coanda effect high thrust secondary injection
thresho GS RT	trigger circuits  Id logic mathematical logic . set theory threshold logic gates (circuits) logic logic circuits thresholds transistor logic	GS biopolymers . proteins . enzymes . thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes . thrombin	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation  thrust augmentation  RT afterburning  Coanda effect high thrust secondary injection shrouded propellers
thresho GS RT	trigger circuits  Id logic mathematical logic . set theory . threshold logic gates (circuits) logic logic circuits thresholds	GS biopolymers . proteins . enzymes thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes thrombin RT blood coagulation	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust
threshol	trigger circuits  Id logic mathematical logic . set theory . threshold logic gates (circuits) logic logic circuits thresholds transistor logic trigger circuits  d shift	GS biopolymers . proteins . enzymes thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes thrombin  RT blood coagulation fibrin	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation  thrust augmentation  RT afterburning  Coanda effect high thrust secondary injection shrouded propellers
threshol	trigger circuits  Id logic mathematical logic . set theory . threshold logic gates (circuits) logic logic circuits thresholds transistor logic trigger circuits	GS biopolymers . proteins . enzymes thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes thrombin RT blood coagulation	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust
threshol GS RT « « threshol USE	trigger circuits  Id logic mathematical logic . set theory threshold logic gates (circuits) logic logic circuits thresholds transistor logic trigger circuits  d shift thresholds	GS biopolymers . proteins . enzymes . thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes . thrombin  RT blood coagulation fibrin fibrinogen hemostatics prothrombin	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust water injection  thrust bearings GS bearings
threshol USE threshol	trigger circuits  Id logic mathematical logic . set theory . threshold logic gates (circuits) logic logic circuits thresholds transistor logic trigger circuits d shift thresholds  Id voltage	GS biopolymers . proteins . enzymes . thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes . thrombin BT blood coagulation fibrin fibrinogen hemostatics	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust water injection  thrust bearings GS bearings . thrust bearings
threshol USE threshol USE	trigger circuits  Id logic mathematical logic . set theory . threshold logic gates (circuits) logic logic circuits thresholds transistor logic trigger circuits  d shift thresholds  Id voltage The threshold energy necessary to re-	GS biopolymers . proteins . enzymes thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes thrombin  RT blood coagulation fibrin fibrinogen hemostatics prothrombin thromboplastin	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust water injection  thrust bearings GS bearings . thrust bearings RT antifriction bearings
threshol USE threshol DEF move ar	trigger circuits  Id logic mathematical logic . set theory threshold logic gates (circuits) logic logic circuits thresholds transistor logic trigger circuits  d shift thresholds  Id voltage The threshold energy necessary to re- electron from the bound position to the	GS biopolymers . proteins . renzymes	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust water injection  thrust bearings GS bearings . thrust bearings RT antifriction bearings ball bearings
threshol USE threshol DEF move ar	trigger circuits  Id logic mathematical logic . set theory . threshold logic gates (circuits) logic logic circuits thresholds transistor logic trigger circuits  d shift thresholds  Id voltage The threshold energy necessary to re-	GS biopolymers . proteins . renzymes thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes . thrombin  RT blood coagulation fibrin fibrinogen hemostatics prothrombin thrombocytes RT blood coagulation	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust water injection  thrust bearings GS bearings RT antifriction bearings ball bearings gas bearings
threshol USE  threshol USE	trigger circuits  Id logic mathematical logic . set theory threshold logic gates (circuits) logic logic circuits thresholds transistor logic trigger circuits  d shift thresholds  Id voltage The threshold energy necessary to re- lelectron from the bound position to the on band in solid state devices.	GS biopolymers . proteins . renzymes	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust water injection  thrust bearings GS bearings . thrust bearings RT antifriction bearings ball bearings
threshol USE threshol DEF move ar conducti GS	trigger circuits  Id logic mathematical logic . set theory . threshold logic gates (circuits) logic logic circuits thresholds transistor logic trigger circuits  d shift thresholds  Id voltage The threshold energy necessary to respect to the control of the sound position to the on band in solid state devices. potential energy . electric potential . threshold voltage	GS biopolymers . proteins . enzymes . thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes . thrombin  RT blood coagulation fibrin fibrinogen hemostatics prothrombin thrombocytes  RT blood coagulation clotting	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust water injection  thrust bearings GS bearings . thrust bearings  RT antifriction bearings ball bearings gas bearings roller bearings
threshol USE  threshol USE	trigger circuits  Id logic mathematical logic . set theory threshold logic gates (circuits) logic logic eircuits thresholds transistor logic trigger circuits  d shift thresholds  Id voltage The threshold energy necessary to re- electron from the bound position to the on band in solid state devices. potential energy . electric potential . threshold voltage photovoltages	GS biopolymers . proteins . enzymes . thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes . thrombin  RT blood coagulation fibrin fibrinogen hemostatics prothrombin thrombocytes RT blood coagulation clotting  thrombopenia	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust water injection  thrust bearings GS bearings RT antifriction bearings ball bearings gas bearings
threshol USE threshol DEF move ar conducti GS	trigger circuits  Id logic mathematical logic . set theory threshold logic gates (circuits) logic logic circuits thresholds transistor logic trigger circuits  d shift thresholds  Id voltage The threshold energy necessary to re- lelectron from the bound position to the on band in solid state devices. potential energy . electric potential . threshold voltage photovoltages photovoltaic effect	GS biopolymers . proteins . enzymes thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes thrombin  RT blood coagulation fibrin fibrinogen hemostatics prothrombin thrombocytes RT blood coagulation clotting  thrombopenia GS diseases	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust water injection  thrust bearings GS bearings . thrust bearings RT antifriction bearings ball bearings gas bearings roller bearings thrust chamber pressure
threshol USE threshol DEF move ar conducti GS	trigger circuits  Id logic mathematical logic . set theory . threshold logic gates (circuits) logic logic circuits thresholds transistor logic trigger circuits  d shift thresholds  Id voltage The threshold energy necessary to re- electron from the bound position to the on band in solid state devices. potential energy . electric potential . threshold voltage photovoltages photovoltages photovoltaic effect semiconductor junctions	GS biopolymers . proteins . enzymes . thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes . thrombin BT blood coagulation fibrin fibrinogen hemostatics prothrombin thromboplastin  thrombocytes RT blood coagulation clotting  thrombopenia GS diseases . thrombopenia	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust water injection  thrust bearings GS bearings . thrust bearings RT antifriction bearings ball bearings gas bearings roller bearings  thrust chamber pressure GS pressure . thrust chamber pressure
threshol USE threshol DEF move ar conducti GS	trigger circuits  Id logic mathematical logic . set theory . threshold logic gates (circuits) logic logic circuits thresholds transistor logic trigger circuits  d shift thresholds  Id voltage The threshold energy necessary to re- electron from the bound position to the on band in solid state devices. potential energy . electric potential . threshold voltage photovoltages photovoltages photovoltage effect semiconductor junctions silicon junctions	GS biopolymers . proteins . enzymes thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes thrombin  RT blood coagulation fibrin fibrinogen hemostatics prothrombin thrombocytes RT blood coagulation clotting  thrombopenia GS diseases	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust water injection  thrust bearings GS bearings . thrust bearings RT antifriction bearings ball bearings gas bearings roller bearings thrust chamber pressure GS pressure . thrust chamber pressure
threshol USE threshol DEF move ar conducti GS	trigger circuits  Id logic mathematical logic . set theory . threshold logic gates (circuits) logic logic circuits thresholds transistor logic trigger circuits  d shift thresholds  Id voltage The threshold energy necessary to re- electron from the bound position to the on band in solid state devices. potential energy . electric potential . threshold voltage photovoltages photovoltages photovoltaic effect semiconductor junctions	GS biopolymers . proteins . enzymes . thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes . thrombin BT blood coagulation fibrin fibrinogen hemostatics prothrombin thrombocytes RT blood coagulation clotting  thrombopenia GS diseases . thrombopenia RT coagulation	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust water injection  thrust bearings GS bearings . thrust bearings RT antifriction bearings ball bearings gas bearings roller bearings  thrust chamber pressure GS pressure . thrust chambers  UF rocket chambers
threshol USE threshol DEF move ar conducti GS	trigger circuits  Id logic mathematical logic . set theory . threshold logic gates (circuits) logic logic circuits thresholds transistor logic trigger circuits  d shift thresholds  Id voltage The threshold energy necessary to re- electron from the bound position to the on band in solid state devices. potential energy . electric potential . threshold voltage photovoltages photovoltaic effect semiconductor junctions silicon junctions solid state devices	GS biopolymers . proteins . enzymes . thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes . thrombin BT blood coagulation fibrin fibrinogen hemostatics prothrombin thromboplastin  thrombocytes RT blood coagulation clotting  thrombopenia GS diseases . thrombopenia	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust water injection  thrust bearings GS bearings . thrust bearings AT antifriction bearings ball bearings gas bearings roller bearings  thrust chamber pressure GS pressure . thrust chambers UF rocket chambers RT arc chambers RT arc chambers
threshol USE threshol DEF move ar conducti GS	trigger circuits  Id logic mathematical logic . set theory threshold logic gates (circuits) logic logic eircuits thresholds transistor logic trigger circuits  d shift thresholds  Id voltage The threshold energy necessary to re- electron from the bound position to the on band in solid state devices. potential energy . electric potential . threshold voltage photovoltages photovoltaic effect semiconductor junctions silicon junctions solid state devices threshold currents	GS biopolymers . proteins . enzymes . thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes . thrombin BT blood coagulation fibrin fibrinogen hemostatics prothrombin thrombocytes RT blood coagulation clotting  thrombopenia GS diseases . thrombopenia RT coagulation  thromboplastin	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust water injection  thrust bearings GS bearings . thrust bearings  RT antifriction bearings ball bearings gas bearings roller bearings  thrust chamber pressure GS pressure . thrust chambers  UF rocket chambers RT arc chambers ∞ chambers
threshol USE threshol DEF move ar conducti GS	trigger circuits  Id logic mathematical logic . set theory . threshold logic gates (circuits) logic logic logic logic logic triuts thresholds transistor logic trigger circuits  Id shift thresholds  Id voltage The threshold energy necessary to respect to the logic	GS biopolymers . proteins . proteins . enzymes . thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes . thrombin BT blood coagulation fibrin fibrinogen hemostatics prothrombin thromboplastin  thrombopenia GS diseases . thrombopenia RT coagulation  thromboplastin GS body fluids . blood . thromboplastin	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust water injection  thrust bearings GS bearings . thrust bearings AT antifriction bearings ball bearings gas bearings roller bearings  thrust chamber pressure GS pressure . thrust chambers UF rocket chambers RT arc chambers RT arc chambers
threshol USE threshol DEF move ar conducti GS RT	trigger circuits  Id logic mathematical logic . set theory . threshold logic gates (circuits) logic logic circuits thresholds transistor logic trigger circuits  Id voltage The threshold energy necessary to re- relectron from the bound position to the on band in solid state devices. potential energy . electric potential . threshold voltage photovoltages photovoltages photovoltaic effect semiconductor junctions silicon junctions solid state devices threshold currents thresholds volt-ampere characteristics	GS biopolymers . proteins . enzymes . thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes . thrombin BT blood coagulation fibrin fibrinogen hemostatics prothrombin thromboplastin  thrombopenia GS diseases . thrombopenia RT coagulation  thromboplastin  GS body fluids . blood . thromboplastin  RT blood coagulation	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust water injection  thrust bearings GS bearings . thrust bearings RT antifriction bearings ball bearings gas bearings roller bearings  thrust chamber pressure GS pressure . thrust chamber pressure  thrust chambers  UF rocket chambers RT arc chambers  ∞ chambers combustion chambers
threshol USE threshol DEF move ar conducti GS	trigger circuits  Id logic mathematical logic . set theory . threshold logic gates (circuits) logic logic circuits thresholds transistor logic trigger circuits  d shift thresholds  Id voltage The threshold energy necessary to re- electron from the bound position to the on band in solid state devices. potential energy . electric potential . threshold voltage photovoltages photovoltaic effect semiconductor junctions silicon junctions solid state devices threshold currents thresholds volt-ampere characteristics  Idds (USE OF A MORE SPECIFIC TERM IS	GS biopolymers . proteins . enzymes . thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes . thrombin BIT blood coagulation fibrin fibrinogen hemostatics prothrombin thrombocytes RT blood coagulation clotting  thrombopenia GS diseases . thrombopenia RT coagulation  thromboplastin  GS body fluids . blood . thromboplastin  RT blood coagulation clotting  RT coagulation	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust water injection  thrust bearings GS bearings . thrust bearings BT antifriction bearings ball bearings gas bearings roller bearings  thrust chamber pressure GS pressure . thrust chambers  UF rocket chambers RT arc chambers ∞ chambers combustion chambers divergent nozzles rocket engine cases
threshol USE threshol USE threshol EF move ar conducti GS RT	trigger circuits  Id logic mathematical logic . set theory . threshold logic gates (circuits) logic logic circuits thresholds transistor logic trigger circuits  d shift thresholds  Id voltage The threshold energy necessary to re- electron from the bound position to the on band in solid state devices. potential energy . electric potential . threshold voltage photovoltages photovoltages photovoltaic effect semiconductor junctions silicon junctions solid state devices threshold currents threshold voltage photopable threshold currents threshold voltage threshold currents thresholds volt-ampere characteristics  Ids (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)	GS biopolymers . proteins . enzymes thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes thrombin  RT blood coagulation fibrin fibrinogen hemostatics prothrombin thromboplastin  thrombopenia GS diseases . thrombopenia RT coagulation  thromboplastin  GS body fluids . blood . thromboplastin  RT blood coagulation clotting	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust water injection  thrust bearings GS bearings . thrust bearings BT antifriction bearings ball bearings gas bearings roller bearings  thrust chamber pressure GS pressure . thrust chamber pressure  thrust chambers  UF rocket chambers RT arc chambers  ∞ chambers ∞ chambers combustion chambers divergent nozzles rocket engine cases  thrust control
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threshol USE threshol USE thresho DEF move ar conducti GS RT  thresho	trigger circuits  Id logic mathematical logic . set theory . threshold logic gates (circuits) logic logic logic logic logic circuits thresholds transistor logic trigger circuits  d shift thresholds  Id voltage The threshold energy necessary to respect of the lectron from the bound position to the on band in solid state devices. potential energy . electric potential . threshold voltage photovoltages photovoltages photovoltages photovoltages photovoltage ffect semiconductor junctions silicon junctions solid state devices threshold currents thresholds volt-ampere characteristics  Ids  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) Generally, the minimum values of sigt can be detected by the systems or	GS biopolymers . proteins . enzymes . thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes . thrombin  RT blood coagulation fibrin fibrinogen hemostatics prothrombin thromboplastin  thrombopenia GS diseases . thrombopenia RT coagulation clotting  thromboplastin  GS body fluids . blood . thromboplastin  RT blood coagulation clotting  RT coagulation	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust water injection  thrust bearings GS bearings . thrust bearings BT antifriction bearings ball bearings gas bearings roller bearings  thrust chamber pressure GS pressure . thrust chamber pressure  thrust chambers  UF rocket chambers RT arc chambers RT arc chambers end chambers combustion chambers divergent nozzles rocket engine cases  thrust control GS thrust control . thrust vector control
threshol USE threshol USE threshol EF move ar conducti GS RT  threshol DEF nove ar conducti GS RT	trigger circuits  Id logic mathematical logic . set theory . threshold logic gates (circuits) logic logic circuits thresholds transistor logic trigger circuits  d shift thresholds  Id voltage The threshold energy necessary to re- electron from the bound position to the on band in solid state devices. potential energy . electric potential . threshold voltage photovoltages photovoltages photovoltages photovoltaic effect semiconductor junctions silicon junctions solid state devices threshold currents thresholds volt-ampere characteristics  Ids (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) Generally, the minimum values of sig-	GS biopolymers . proteins . renzymes thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes . thrombin  RT blood coagulation fibrin fibrinogen hemostatics prothrombin thromboplastin  thrombopenia GS diseases . thrombopenia RT coagulation  thromboplastin  GS body fluids . blood . thromboplastin  RT blood coagulation clotting  RT coagulation	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust water injection  thrust bearings GS bearings . thrust bearings BRT antifriction bearings ball bearings gas bearings roller bearings  thrust chamber pressure GS pressure . thrust chambers  RT arc chambers  UF rocket chambers RT arc chambers end thrust chambers  we chambers combustion chambers divergent nozzles rocket engine cases  thrust control GS thrust control . thrust vector control RT attitude control
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threshol USE threshol USE threshol EF move ar conducti GS RT  threshol DEF move ar conducti GS RT	trigger circuits  Id logic mathematical logic . set theory . threshold logic gates (circuits) logic logic circuits thresholds transistor logic trigger circuits  d shift thresholds  Id voltage The threshold energy necessary to re- relectron from the bound position to the on band in solid state devices. potential energy . electric potential . threshold voltage photovoltages photovoltages photovoltaic effect semiconductor junctions silicon junctions solid state devices threshold currents threshold voltage photovoltages photovoltaic effect semiconductor junctions silicon junctions solid state devices threshold currents thresholds volt-ampere characteristics  Ids (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) Generally, the minimum values of sig- t can be detected by the systems or under consideration. Used for threshold	GS biopolymers . proteins . enzymes thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes thrombin RT blood coagulation fibrin fibrinogen hemostatics prothrombin thrombocytes RT blood coagulation clotting  thrombopenia GS diseases . thrombopenia RT coagulation  thromboplastin  GS body fluids . blood . thromboplastin  RT blood coagulation clotting  hemostatics prothrombin  thrombopenia RT coagulation clotting  thromboplastin GS body fluids . blood . thromboplastin RT blood coagulation clotting hemostatics homeostatics homeostasis platelets thrombin	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust water injection  thrust bearings GS bearings . thrust bearings BRT antifriction bearings ball bearings gas bearings roller bearings  thrust chamber pressure GS pressure . thrust chambers  RT arc chambers  UF rocket chambers RT arc chambers end thrust chambers  we chambers combustion chambers divergent nozzles rocket engine cases  thrust control GS thrust control . thrust vector control RT attitude control
threshol USE  threshol USE  threshol USE  thresho DEF move ar conducti GS  RT  threshol USE  threshol USE  threshol USE  threshol USE  USE  threshol USE  threshol USE  threshol USE  threshol USE  threshol USE  threshol USE	trigger circuits  Id logic mathematical logic . set theory . threshold logic gates (circuits) logic logic circuits thresholds transistor logic trigger circuits  d shift thresholds  Id voltage The threshold energy necessary to re- electron from the bound position to the on band in solid state devices. potential energy . electric potential . threshold voltage photovoltages photovoltages photovoltaic effect semiconductor junctions silicon junctions solid state devices threshold currents threshold currents thresholds  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) Generally, the minimum values of sig- t can be detected by the systems or under consideration. Used for threshold	GS biopolymers . proteins . enzymes thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes thrombin  RT blood coagulation fibrin fibrinogen hemostatics prothrombin thromboplastin  thrombopenia GS diseases . thrombopenia RT coagulation clotting  thromboplastin  GS body fluids . blood . thromboplastin  RT blood coagulation clotting  thromboplastin GS body fluids . blood . thromboplastin RT blood coagulation clotting hemostatics homeostasis platelets thrombin	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust water injection  thrust bearings GS bearings . thrust bearings BT antifriction bearings ball bearings gas bearings roller bearings  thrust chamber pressure GS pressure . thrust chamber pressure  thrust chambers  UF rocket chambers RT arc chambers RT arc chambers combustion chambers divergent nozzles rocket engine cases  thrust control . thrust vector control RT attitude control ∞ control control rockets
threshol USE  threshol USE  threshol USE  thresho DEF move ar conducti GS  RT  threshol USE  threshol USE  threshol USE  threshol USE  USE  threshol USE  threshol USE  threshol USE  threshol USE  threshol USE  threshol USE	trigger circuits  Id logic mathematical logic . set theory . threshold logic gates (circuits) logic logic circuits thresholds transistor logic trigger circuits  d shift thresholds  Id voltage The threshold energy necessary to re- electron from the bound position to the on band in solid state devices. potential energy . electric potential . threshold voltage photovoltages photovoltages photovoltages photovoltaic effect semiconductor junctions silicon junctions solid state devices threshold currents threshold voltage (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) Generally, the minimum values of sig- t can be detected by the systems or under consideration. Used for threshold	GS biopolymers . proteins . enzymes . thrombin body fluids . blood . thrombin organic compounds . proteins . enzymes . thrombin  RT blood coagulation fibrin fibrinogen hemostatics prothrombin thromboplastin  thrombopenia GS diseases . thrombopenia RT coagulation clotting  thromboplastin  GS body fluids . blood . thromboplastin  RT blood coagulation clotting  thromboplastin GS body fluids . blood . thromboplastin  RT blood coagulation clotting hemostatics homeostasis platelets thrombin  thrombosis GS diseases GS diseases	DEF The increasing of the thrust of an engine or power plant, especially of a jet engine and usually for a short period of time, over the thrust normally developed.  GS augmentation . thrust augmentation  RT afterburning Coanda effect high thrust secondary injection shrouded propellers variable thrust water injection  thrust bearings GS bearings . thrust bearings BT antifriction bearings ball bearings gas bearings roller bearings  thrust chamber pressure GS pressure . thrust chamber pressure  thrust chambers  UF rocket chambers RT arc chambers RT arc chambers end chambers we chambers combustion chambers divergent nozzles rocket engine cases  thrust control . thrust vector control  RT attitude control control control rockets engine control

satellite control	spacecraft control	bases (chemical)
turbojet engine control variable thrust	variable thrust Vernier engines	. <b>thymidine</b> organic compounds
thrust distribution	X-31 aircraft	. cyclic compounds heterocyclic compounds
DEF The location of areas of upward thrust	∞ thrustors	pyrimidines
(lift) on wings, airfoils, etc.	SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS	thymidine
RT aerodynamic forces  ∞ distribution	LISTED BELOW)	RT alloxan deoxyribonucleic acid
force distribution	RT ion engines magnetoplasmadynamic thrusters	nucleosides
leading edges	pulsed inductive thrusters	thumino
pressure distribution vortices	pulsed plasma thrusters rocket engines	<b>thymine</b> GS acids
wing planforms	Tocket engines	. thymine
thrust faults	thrust-weight ratio	nitrogen compounds . <b>thymine</b>
USE geological faults	GS ratios . thrust-weight ratio	organic compounds
thrust loads	RT acceleration (physics)	. cyclic compounds
GS loads (forces)	mass ratios pressure ratio	heterocyclic compounds pyrimidines
dynamic loads	rocket engines	thymine
<b>thrust loads</b> RT aerodynamic loads	thulium	RT alloxan deoxyribonucleic acid
axial compression loads	GS chemical elements	deoxymbolidaleic acid
axial loads	. rare earth elements	thymol
compression loads jet thrust	<b>thulium</b> thulium isotopes	GS hydroxyl compounds . alcohols
rocket thrust	metals	phenols
structural design criteria	. rare earth elements	thymol
thrust measurement	<b>thulium</b> thulium isotopes	thymus gland
GS mechanical measurement	•	GS anatomy
. thrust measurement RT accelerometers	thulium 171 USE thulium isotopes	. glands (anatomy) endocrine glands
dynamometers	OSC triulium isotopes	thymus gland
∞ force	thulium compounds	. immune systems
∞ measurement	GS rare earth compounds . thulium compounds	lymphatic system <b>thymus gland</b>
thrust power	RT ∞ chemical compounds	, ,
USE thrust	∞ metal compounds	thyratrons GS electron tubes
thrust programming	thulium isotopes	. gas discharge tubes
UF optimum thrust programming GS scheduling	UF thulium 171	thyratrons
. programming (scheduling)	GS chemical elements . nuclides	microwave equipment . <b>thyratrons</b>
. thrust programming	isotopes	rectifiers
RT flight mechanics flight optimization	thulium isotopes . rare earth elements	. thyratrons RT current converters (AC to DC)
flight plans	thulium	silicon controlled rectifiers
orbital mechanics parking orbits	thulium isotopes	thyristors
propulsive efficiency	metals . rare earth elements	thyristors
trajectory control	thulium	GS electronic equipment
thrust reversal	thulium isotopes	. solid state devices semiconductor devices
RT aircraft brakes	Thunderchief aircraft	thyristors
brakes (for arresting motion) braking	USE F-105 aircraft	silicon controlled rectifiers
deceleration	thunderstorms	rectifiers . <b>thyristors</b>
Alternative Action	DEF Local storms resulting from warm hu-	silicon controlled rectifiers
thrust termination GS stopping	mid air rising in an unstable environment. GS storms	RT junction transistors p-n-p-n junctions
. thrust termination	. storms (meteorology)	thyratrons
RT burnout rocket thrust	rainstorms thunderstorms	trigger circuits triodes
stage separation	RT anvil clouds	triodes
variable thrust	arc clouds	thyroid gland
thrust vector control	atmospherics cirrocumulus clouds	GS anatomy . glands (anatomy)
UF TVC (control)	cirrostratus clouds	endocrine glands
GS attitude control . directional control	clouds (meteorology)	<b>thyroid gland</b> RT calcium metabolism
thrust vector control	cold fronts cumulonimbus clouds	hypometabolism
flight control	downbursts	thyroxine
. thrust vector control thrust control	elves fronts (meteorology)	thyroxine
. thrust vector control	hail	GS acids
RT air slew missiles	hailstorms	. amino acids
automatic control automatic flight control	lightning lightning suppression	<b>thyroxine</b> organic compounds
∞ control	microbursts (meteorology)	. amino acids
guide vanes gyrostabilizers	rain sprites (atmospheric physics)	thyroxine secretions
jet vanes	storm damage	. endocrine secretions
liquid injection	warm fronts	hormones
maneuverable spacecraft missile control	wind (meteorology)	<b>thyroxine</b> RT thyroid gland
nozzle thrust coefficients	thymidine	, 0
rocket engines secondary injection	GS acids . <b>thymidine</b>	Tibet GS nations
Scoomaary Injection	. arynnume	GO HALIOTIS

DT	. Tibet	acting upon the rotating Earth. The disturbance		XV-15 aircraft
RT	Asia	actually propagates as a wave through the at-	tilt win	a circroft
	Bhutan	mosphere and along the surface of the waters of		g aircraft
	Himalayas	the Earth. Atmospheric tides are always so	UF	
411-1-		designated, whereas the term tide alone com-	GS	tilt wing aircraft
tibia		monly implies the oceanic variety. Used for tidal		. CL-84 aircraft
GS	anatomy	oscillation.		. L-29 jet trainer
	. musculoskeletal system	UF tidal oscillation		. VZ-2 aircraft
	bones	GS tides	БТ	. XC-142 aircraft
	tibia	. atmospheric tides	RI	∞ aircraft
RT	leg (anatomy)	. Earth tides		fan in wing aircraft
TID		. 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		floods		vertical takeoff aircraft
GS	landforms	ocean currents		X-22 aircraft
	. flats (landforms)	ocean surface		
	. tidal flats	oceanography		propellers
RT	aquiculture	pressure ice	GS	propellers
	coasts	sea roughness		. tilted propellers
	estuaries	tidal flats	RT	helicopter propeller drive
	fisheries	tide powered generators		
	marshlands	tide powered machines	tilting	
	mud	tidepower	USE	attitude (inclination)
	oceans	water currents		•
	shorelines	waterwave energy conversion	tilting	rotors
	tides	waterwave powered machines		airfoils
		waterwave powered machines wetlands		. wings
tidal os	cillation	Wollando		rotary wings
	tides			tilting rotors
		tiebolts		rotating bodies
tidal wa	aves	GS fasteners		. rotors
	water waves	. bolts		rotary wings
	. tidal waves	tiebolts		tilting rotors
RT	ocean currents		RT	tilt rotor aircraft
	ocean surface	TIG welding		V-22 aircraft
	oceanography	USE gas tungsten arc welding		XV-3 aircraft
	sea breeze		dildan ad	
	sea roughness	tightness	tiltmet	
	seismology	RT clearances		Instruments used to measure small
	tsunami waves	closures		es in the tilt of the Earth's surface usually
•	∞ waves	proximity		ion to a liquid-level surface or to the res
	wind (meteorology)	. ,		n of a pendulum.
		tilee	GS	measuring instruments
	wered generators	tiles		tiltmeters
RT	electric generators	DEF Ceramic surfacing units, usually rela-	RT	attitude (inclination)
	energy conversion efficiency	tively thin in relation to facial area, made from		geophysics
	∞ generators	clay or a mixture of clay and other ceramic		seismographs
	ocean currents	materials, called the body of the tile having		
	ocean surface	either a "glazed" or "unglazed" face and fired	tilt-tab	le test
	oceanography	above red heat in the course of manufacture to	(add	ded August 2004)
	oceans	a temperature sufficiently high to produce spe-	DEF	A test to evaluate homodynamic o
	sea roughness	cific physical properties and characteristics.	cardiov	ascular response that uses a tilt
	tidepower	RT ceramics		ble table to maintain a head-down o
	tides	floors		p body posture.
	waterwave energy conversion	grout		physiological tests
	waterwave powered machines	Ludox (trademark)	ao	. tilt-table test
	waterwave powered machines	masonry	RT	
tida na	wared machines	walls	NI.	aerospace medicine
	wered machines	wallo		bioastronautics
RI 4	∞ machinery			cardiovascular system
	ocean currents	tilt		gravitational physiology
	ocean surface	USE attitude (inclination)		head down tilt
	sea roughness	·		head up tilt
	tidepower	tilt rotor aircraft		hemodynamic responses
	tides			hindlimb suspension
	waterwave energy conversion	DEF A type of convertible aircraft which		lower body negative pressure
	waterwave powered machines	takes off, hovers, and lands as a helicopter but is		orthostatic tolerance
		converted into a fixed wing aircraft by the 90-		physiological responses
tidepov	wer	degree tilting of its rotor or rotors for use as a		supine position
GS	renewable energy	propeller for forward flight.		weightlessness simulation
	. tidepower	GS V/STOL aircraft		<u> </u>
RT	clean energy	. rotary wing aircraft	timber	identification
	Earth resources	tilt rotor aircraft		identifying
	∞ energy sources	V-22 aircraft	45	. timber identification
	ocean currents	XV-15 aircraft		recognition
	ocean surface	RT ∞ aircraft		timber identification
		helicopters	RT	
	oceanography	rotor stator interactions	וח	
	sea roughness	tilting rotors		crop identification
	tide powered generators			deciduous trees
	tide powered machines	TH B B		Earth resources
	tides	Tilt Rotor Research Aircraft Program		evaluation
	waterwave energy	GS programs		forests
	waterwave energy conversion	. NASA programs		trees (plants)
	waterwave powered machines	. Tilt Rotor Research Aircraft		
		Program	timber	inventory
tides		RT ∞ aircraft	GS	
DEF	The periodic rising and falling of the	helicopters		. timber inventory
	oceans and atmosphere. It results from	rotary wings	RT	aerial photography
	ivitational forces of the moon and sun	V-22 aircraft		Earth resources
uno gra		V LL anotan		

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 foliage Radio transmission method in which RT time marching forests each station of a satellite communication net-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 multitrees (plants) derivation. element antenna with an adaptive null steering RT finite difference theory array eliminates interference. Used for TDMA. numerical analysis timberline **TDMA** spatial marching dendrochronology telecommunication forests . multiple access time measurement time division multiple access growth dating high altitude environments . radio communication epochs polar regions . . radio relay systems timing timber vigor . time division multiple access time measurement trees (plants) transmission . clock paradox . signal transmission RT atomic clocks chronometers . . data transmission 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 channel noise frequency measurement duration time frequency division multiple access ∞ measurement oscillographs multichannel communication . access time radioactive age determination . burning time packet switching . downtime rates (per time) pulse communication satellite networks sidereal time ephemeris time . flight time stroboscopes switching . MTBF wideband communication synchronism . reaction time time time division multiplexing
DEF A system for the transmission of information about two or more quantities (measurands) over a common channel by dividing avail-. . chronaxy ∞ time response time synchronization . relaxation time response time (computers) sidereal time timing devices velocity velocity measurement able time intervals among the measurands to form a composite pulse train. . testing time windows (intervals) . transit time universal time GS transmission time measuring instruments multiplexing GS measuring instruments celestial geodesy time division multiplexing . 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 time domain analysis schedules 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 constants ∞ time response . optimal control . time constant . . time optimal control . . perceptual time constant time functions RT ∞ control access time GS functions (mathematics) time functions ∞ constant ∞ time response RT 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 wave functions impedance LC circuits waveforms delay wavelet analysis response bias RC circuits responses reaction time 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 ∞ 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 delay delay lines electric relays

hysteresis

inventory controls

time dependence

GS

dependence

RT ∞ Helmholtz equations

time dependence

spatial dependencies

autoregressive moving average

correlation

curve fitting data sampling

extrapolation

### time sharing

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  $\infty \, \text{signals}$ time synchronization timing devices

### time synchronization

(added December 1998)

GS synchronism

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.

structural members

. beams (supports)

Timoshenko beams

columns (supports) Euler-Bernoulli beams trusses

#### 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

GS chalcogenides

. oxides

. . 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

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

RT

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

RT Delta launch vehicle

## **TIROS 5 satellite**

TIROS E satellite

artificial satellites

. meteorological satellites

. . TIROS satellites TIROS 5 satellite

RT Delta launch vehicle

## TIROS 6 satellite

TIROS F satellite

artificial satellites

. meteorological satellites . . TIROS satellites

. TIROS 6 satellite RT 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

artificial satellites

. meteorological satellites
. . TIROS satellites

... TIROS 8 satellite

RT Delta launch vehicle	GS artificial satellites	∞ biology
TIROS 9 satellite	. meteorological satellites <b>TIROS satellites</b>	cancer ∞ cells
UF TIROS wheel satellite	ITOS satellites	cells (biology)
GS artificial satellites	ITOS satellites	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
<b></b>	TIROS 2 satellite	histochemical analysis
TIROS 10 satellite	TIROS 3 satellite	histology
GS artificial satellites	TIROS 4 satellite	infarction
. meteorological satellites TIROS satellites	TIROS 5 satellite	macrophages
TIROS 30 satellite	TIROS 6 satellite	mediastinum
RT Delta launch vehicle	TIROS 7 satellite TIROS 8 satellite	necrosis
TT Dotte teation volumes	TIROS o satellite	organs osteogenesis
TIROS D satellite	TIROS 9 satellite	peritoneum
USE TIROS 4 satellite	TIROS M	tissue engineering
	TIROS N series satellites	acces originooring
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
332	satellite observation	. natural satellites
TIROS G satellite	TIPO0 1 1 1 1 1111	Saturn satellites
USE TIROS 7 satellite	TIROS wheel satellite USE TIROS 9 satellite	Titan
	USE TIRUS 9 satellite	RT atmospheric composition
TIROS H satellite	tissue culturing	Cassini mission
USE TIROS 8 satellite	(added August 2004)	Charon
TIROS M	DEF Maintaining or growing of tissue, organ	Huygens probe 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.	
RT ITOS 1	GS culture techniques	Titan 1 ICBM
ITOS 2	. tissue culturing	UF SM-68 missile
ITOS 3	RT cell culturing	GS missiles
ITOS 4	clone cells	. ballistic missiles
ITOS satellites	culture media cultured cells	intercontinental ballistic missiles
TIDOS N corios catallitas	microbiology	Titan ICBM
TIROS N series satellites	organ culturing	Titan 1 ICBM . surface to surface missiles
DEF A new term for the family of satellites designed to prototype Tiros N.	tissue engineering	. intercontinental ballistic missiles
GS artificial satellites	accuse on gineoning	Titan ICBM
. meteorological satellites	tissue engineering	Titan 1 ICBM
TIROS satellites	(added October 2000)	RT LR-87-AJ-5 engine
TIROS N series satellites	DEF Discipline for the in vitro growth and	111 211 01 7 to 0 origino
NOAA 6 satellite	maintenance of tissue, organ primordia, or the	Titan 2 ICBM
RT Advanced Microwave Sounding Unit	whole or part of an organ so as to preserve its	UF SM-68B missile
Advanced Very High Resolution	architecture and/or function. In terms of applica-	GS missiles
Radiometer	tion, the primary goal of this technology is the	. ballistic missiles
ITOS 1	replacement of deficient organs.	intercontinental ballistic missiles
ITOS 2	GS bioengineering	Titan ICBM
ITOS 3	. tissue engineering	Titan 2 ICBM
ITOS 4	technologies . biotechnology	. surface to surface missiles intercontinental ballistic missiles
ITOS satellites	tissue engineering	Titan ICBM
NOAA 7 satellite TIROS operational satellite system	RT bioreactors	Titan 2 ICBM
TINOS operational satellite system	cell culturing	RT Hyla-Star rocket vehicle
TIROS operational satellite system	cells (biology)	TTT TIYLA GLAI TOURGE VOITIGIO
RT cloud photography	clinostats	Titan 3 launch vehicle
ITOS 1	culture media	GS launch vehicles
ITOS 2	culture techniques	. Titan launch vehicles
ITOS 3	cytology	Titan 3 launch vehicle
ITOS 4	growth	rocket vehicles
satellite observation	histology	. multistage rocket vehicles
∞ systems	in vitro methods and tests  ∞ microgravity applications	. Titan launch vehicles
TIROS N series satellites	∞microgravity applications organ culturing	Titan 3 launch vehicle  RT manned orbital laboratories
TIROS project	organs	HT manned orbital laboratories
GS programs	tissue culturing	Titan 4 launch vehicle
. NASA programs	tissues (biology)	(added February 1993)
NASA space programs		GS launch vehicles
TIROS project	tissues (biology)	. Titan launch vehicles
. projects	GS tissues (biology)	Titan 4 launch vehicle
. TIROS project	. connective tissue	Titan 4B launch vehicle
. space programs	. endothelium	rocket vehicles
NASA space programs	. epicardium	. multistage rocket vehicles
TIROS project	. epithelium	. Titan launch vehicles
RT cloud photography	. hypodermis . neuroglia	Titan 4 launch vehicle
cloud photography meteorological satellites	. plantar tissues	Titan 4B launch vehicle RT Titan Centaur launch vehicle
meteorological Satellites	. scars	∞ vehicles
TIROS satellites	adipose tissues	~ veriloies
DEF A series of NASA and NOAA satellites	bone marrow	Titan 4B launch vehicle
launched to monitor the Earth's weather. Those	cartilage	(added October 1998)
funded by NASA are called TIROS, and those	RT anatomy	GS launch vehicles
funded by NOAA are called ESSA.	atrophy	. Titan launch vehicles

. . Titan 4 launch vehicle launching ... lead zirconate titanates . Titan 4B launch vehicle . . magnesium titanates rocket vehicles titanates . . perovskites . multistage rocket vehicles titanium compounds . . strontium titanates . . Titan launch vehicles . titanates . . zirconium titanates . . . Titan 4 launch vehicle . . barium titanates . lead zirconate titanates ... Titan 4B launch vehicle ilmenite . titanium borides Cassini mission . . lead titanates . titanium carbides laser gyroscopes ... lead zirconate titanates . titanium chlorides . . magnesium titanates . titanium nitrides . . perovskites . titanium oxides Titan atmosphere . . strontium titanates . . anatase (added May 2005) . . zirconium titanates . . ilmenite The atmosphere surrounding the Sat-. . lead zirconate titanates . rutile urnian satellite Titan. euxenite . titanium aluminides GS environments RT ∞ chemical compounds . extraterrestrial environments ∞ Group 4B compounds . . satellite atmospheres DEF A satellite of Uranus orbiting at a mean ∞ metal compounds . Titan atmosphere distance of 438,000 kilometers. Cassini mission celestial bodies titanium dioxide Huygens probe . natural satellites USE titanium oxides Saturn (planet) . . icy satellites Titan . . . Titania titanium isotopes . . Uranus satellites GS chemical elements Titan Centaur launch vehicle . nuclides . Titania DEF A Titan III rocket augmented with a Centaur rocket for launching spacecraft requir-Uranus (planet) . . isotopes ... titanium isotopes ing high-velocity escape trajectories. titanium . titanium launch vehicles GS chemical elements . . titanium isotopes Titan Centaur launch vehicle . titanium metals rocket vehicles . transition metals . . titanium isotopes Titan Centaur launch vehicle metals . . titanium Centaur launch vehicle . . . titanium isotopes . transition metals Titan 4 launch vehicle . . titanium . . . titanium isotopes titanium nitrides Titan ICBM GS nitrogen compounds . nitrides GS missiles titanium alloys . ballistic missiles . . metal nitrides alloys GS . . intercontinental ballistic missiles . titanium alloys . . titanium nitrides ... Titan ICBM . nitinol alloys titanium compounds . titanium nitrides Titan 1 ICBM aluminides RT . . . . Titan 2 ICBM shape memory allovs RT ceramic matrix composites . surface to surface missiles titanium aluminides . . intercontinental ballistic missiles titanium oxides vanadium alloys ... Titan ICBM titanium dioxide . . . . Titan 1 ICBM titanium aluminides GS chalcogenides Titan 2 ICBM (added June 1997) . oxides liquid propellant rocket engines aluminum compounds . . metal oxides LR-91-AJ-5 engine . aluminides ... titanium oxides multistage rocket vehicles YLR-91-AJ-1 engine . titanium aluminides . . . . anatase titanium compounds . . . . ilmenite titanium aluminides . . . rutile Titan launch vehicles intermetallics titanium compounds launch vehicles titanium alloys titanium oxides . Titan launch vehicles . . anatase Titan 3 launch vehicle titanium borides . . ilmenite . . Titan 4 launch vehicle boron compounds GS . rutile . Titan 4B launch vehicle . borides RT dioxides rocket vehicles . titanium borides . multistage rocket vehicles titanium compounds titration . . Titan launch vehicles titanium borides The determination of the reactive ca-... Titan 3 launch vehicle pacity, usually of a solution, especially, the ana-... Titan 4 launch vehicle titanium carbides lytical process of successively adding measured . . . Titan 4B launch vehicle GS carbon compounds . carbides amounts of a reagent (as a standard solution) to Gemini 3 flight a known volume or weight of a sample or sample Gemini 7 flight . titanium carbides solution until a desired end point is reached. Gemini 8 flight titanium compounds GS chemical reactions Gemini 9 flight Gemini 10 flight titanium carbides . titration ceramic fibers acidity Gemini 11 flight ceramic matrix composites coulometers Gemini 12 flight iodimetry liquid propellant rocket engines titanium chlorides ion concentration solid propellant rocket engines GS halogen compounds Kjeldahl method ∞ vehicles . chlorine compounds solutions . . chlorides Titan project . . . titanium chlorides titrimeters programs . halides GS measuring instruments . NASA programs . . chlorides titrimeters . titanium chlorides . . NASA space programs chemical analysis .. Titan project . . metal halides . titanium chlorides . projects TNO (astronomy) (added June 2006) .. Titan project titanium compounds . space programs titanium chlorides USE trans-Neptunian objects . . NASA space programs Titan project titanium compounds TNT (trinitrotoluene) RT ∞ boosters GS titanium compounds USE trinitrotoluene Gemini project . titanates Gemini spacecraft . . barium titanates tobacco

. . ilmenite

. . lead titanates

GS

plants (botany)

tobacco

launch vehicles

launchers

RT	nicotine		biocontrol systems		Tonk meteorite
tocoph	erol		impact resistance noise tolerance	tonome	try
UF	vitamin E		orthostatic tolerance	USE	intraocular pressure
GS	organic compounds		physiology	002	pressure measurement
ao	. cyclic compounds		range (extremes)		procoure modearement
	. heterocyclic compounds	c	∘ resistance	tonus	
	tocopherol		- Toolotarioo	USE	muscular tonus
	. lipids				
	tocopherol		n-Schlichting waves	tooling	
	vitamins		ed May 1988)	RT ∘	∘ automation
	. tocopherol	GS	elastic waves		machining
		ОТ	. Tollmien-Schlichting waves Blasius flow		mechanization
Togo		RT	boundary layer flow		setups
GS	nations		boundary layer from		tools
БТ	. Togo		laminar flow	taala	
RT	Africa		turbulent flow	<b>tools</b> GS	tools
toilets			tarbalont now	do	. drill bits
RT	human wastes				. drills
nı	sanitation	toluene			. files (tools)
	spacecrews	GS	organic compounds		. hammers
	waste disposal		. hydrocarbons		electromagnetic hammers
	wadto diopodai	DT	toluene		. machine tools
tokama	k devices	RT	solvents		boring machines
DEF	Experimental torroidal magnetic con-		xylene		grinding machines
finemen	nt devices where torroidal current runs				lathes
	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		cruise missiles		. saws
	. tokamak devices		Tomahawk missiles		. shears
	Joint European Torus	RT	weapons		. software development tools
	plasma generators				. space tools
	. tokamak devices	tomato	es	DT	. wrenches
ОТ	Joint European Torus	(add	ed June 1990)	RT	antiquities
HI	beam injection	ĠS	farm crops		anvils
	beta factor bumpy toruses		tomatoes		cutters fixtures
	divertors (fusion reactors)	RT	agriculture	~	hardware
	∞ electric power		botany	~	jigs
	limiters (fusion reactors)		∘ crops		kits
	nuclear fusion	c	∘ food_		• 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	∞ reactors		anh.		taps
	spheromaks	tomogr	Technique of making radiographs of		tooling
			ections of a body or an object; its pur-		ultrasonic cleaning
	ces (mechanics)		to show detail in a predetermined plane	tooth d	iseases
	A group of prescribed limits for specific es of a particular material.		ody, while blurring the images of struc-	UF	aerodontalgia
	tolerances (mechanics)		other planes. Used for planigraphy.	GS	diseases
ao	. impact tolerances	UF	planigraphy	ao	. tooth diseases
RT	acceptability	GS	imagery	RT	cavities
• • • •	accuracy		. radiography		dental calculi
	allowances		tomography		dentistry
	clearances		computer aided tomography		oral hygiene
	consistency	RT	computer graphics		teeth
	dimensional stability		ground penetrating radar		
	drift (instrumentation)		image enhancement	TOPEX	
	errors		optical data processing		The NASA Ocean Surface Topography
	hysteresis		x ray analysis		ent, a proposed mission to utilize satel-
	inspection				netry to map the surface topography of
	linearity	TOMS			an from which the ocean currents are
	mechanical properties	USE	Total Ozone Mapping Spectrometer	derived.	
	nondestructive tests			RI	Gulf Stream
	precision	tone			maritime satellites
	quality control	USE	pitch		ocean currents
	radiation tolerance	OOL	piten		ocean surface oceanography
	range (extremes) reliability				Poseidon satellite
	resolution	tongue			satellite observation
	sensitivity	GS	,		sea states
	specifications		. digestive system		topography
	stability	DT	tongue		topog.ap.i.)
	standards	RT	mouth	topogra	phy
			voice	UF	landscape
toleran	ces (physiology)			GS	topography
GS	tolerances (physiology)		eteorite		. lunar topography
	. acceleration tolerance	GS			. terrain
	. altitude tolerance		. meteorites	RT	altimetry
	. cold tolerance		stony meteorites		badlands
	. heat tolerance		carbonaceous meteorites		barren land
	. human tolerances		carbonaceous chondrites		beaches
D.T.	. radiation tolerance		Tonk meteorite		cliffs
RT	acclimatization		chondrites		contour sensors
	Barany chair		carbonaceous chondrites		contours

cusps (landforms)	thermoelectric spacecr		stellarators
∞ depression	GS interplanetary spacecra		al shells
desertline	. TOPS (spacecraft)	GS	
deserts	RT flyby missions	GS	(
digital elevation models	interplanetary flight	DT	. toroidal shells
dunes	outer planets explorers	RT	metal shells
Earth surface	space exploration		reinforced shells
elevation	space missions		skin (structural member)
elevation angle	∞ spacecraft		thin walled shells
escarpments			toroids
geodesy	torches		
geodetic surveys	GS torches		al wheels
geomorphology	. plasma torches	DEF	
geophysics	RT cutting		larly for vehicles used in soft, granular soil
gulfs	pyrogen		tary surfaces). Used for doughnut shape
highlands	welding	wheels	
hypsography	welding machines	UF	0 1
isthmuses	Wording madrimos	GS	wheels
Jupiter red spot			toroidal wheels
lagoons	Tornado aircraft	RT	•
land	USE MRCA aircraft		suspension systems (vehicles)
landforms			tires
landmarks	tornadoes		vehicle wheels
ledges	GS storms		
mapping	. storms (meteorology)	toroids	
maria	tornadoes	KI	∞ coils
Mars surface	RT atmospheric circulation	1	∞ curves
meanders	cold fronts		geometry
muskegs	cumulonimbus clouds		inductors
oceanography	cyclones		ion impact
peaks (landforms)	fronts (meteorology)		magnet coils
photomapping	Fujita method		magnetic cores
plains	ground wind		toroidal shells
planetary surfaces	•		transformers
∞ profiles	hurricanes	a Project	
ravines	National Severe Storm	torped torped	lo engines
relief maps	rainstorms	GS	engines
satellite altimetry	storm damage		torpedo engines
shallow water	tropical storms		. turborocket engines
slopes	typhoons		ullage rocket engines
stairsteps	warm fronts		. Vernier engines
surface roughness	wind (meteorology)		control rockets
TOPEX			SYNCOM apogee engines
valleys	Toro asteroid	RT	
Venus surface	GS celestial bodies		rocket propellants
	. asteroid belts		turbine engines
wadis	Toro asteroid		underwater propulsion
topology	. asteroids		underwater propulsion
GS geometry	Toro asteroid	torped	loes
. topology	RT meteoroids	UF	
fixed points (mathematics)	solar system	GS	explosive devices
homotopy theory	space debris	40	. torpedoes
imbeddings (mathematics)	space deblis	RT	ammunition
invariant imbeddings		111	antisubmarine warfare
links (mathematics)	toroidal discharge		ASROC engine
metric space	GS electric current		bombs (ordnance)
Hilbert space	. electric discharges		∞ configurations
Sobolev space	Townsend discharge	)	countermeasures
RT catastrophe theory	gas discharges		explosives
∞ cells	toroidal dischar	ge	•
continuity	ring discharge	_	hydroballistics missiles
continuity (mathematics)	RT electrodeless discharge	es	
continuums	high frequencies		nuclear weapons
deformation	plasma jets		propellants ∞ rockets
dimensions	spectrum analysis		
fault trees			sea launching
fibers (mathematics)	tovoidal plaamaa		shaped charges
,	toroidal plasmas		submerged bodies
graph theory	UF plasma rings		underwater trajectories
homology	GS particles		warheads
homotropy	. charged particles		weapons
intervals	energetic particles		
isoperimetric problem	plasmas (physics)	torque	
manifolds (mathematics)	toroidal plasmas		
mapping	. corpuscular radiation		e distance of its line of action from the
∞ nets	. energetic particles		Ised for hinge moments.
network synthesis	plasmas (physics)	UF	8
shapes	toroidal plasmas	GS GS	moments
switching theory	RT beam injection		. torque
toruses	beta factor	RT	9
trees (mathematics)	bumpy toruses		∞ force
Voronoi diagrams	elliptical plasmas		loading moments
tonning evels engines	limiters (fusion reactors	3)	moments of inertia
topping cycle engines	plasma control		pitching moments
RT aircraft engines	plasma currents		rolling moments
liquid hydrogen	poloidal flux		rotation
propulsion system configurations	reverse field pinch		shafts (machine elements)
wave rotors	∞ rings		torque sensors (robotics)
TOPS (spacecraft)	rotating plasmas		torquemeters
UF Thermoelectric Outer Planet	solenoids		torsion
Spacecraft	spheromaks		torsional stress
ορασσσιαπ	opnioraniano		

torsional vibration self induced vibration GS measuring instruments shear strain . optical measuring instruments twisting . . photometers yawing moments torque torsion ... ultraviolet spectrometers torque converters .... Total Ozone Mapping twisting DEF Devices for changing the torque speed Spectrometer or mechanical advantage between an input . radiation measuring instruments torso shaft and an output shaft. GS anatomy . . actinometers RT ∞ converters . torso . . . ultraviolet detectors power converters RT ... ultraviolet spectrometers chest 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 Spectrometer . . torque motors . 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 ĠS 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 RT 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 RTsolar total energy systems touchdown deflection integrated energy systems 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 . torsional vibration **Total Ozone Mapping Spectrometer** compressive strength

(added July 1988) UF TOMS

RT

missile vibration

random vibration

crack initiation

ductility

	fracture strength		antennas		toxicology
	hardness		bridges (structures)		toxins and antitoxins
	impact tests		columns (supports)		virulence
	J integral		concrete structures		
	shear properties		construction industry	toxicity	and safety hazard
	tensile strength		cranes	GS	irritation
	wear resistance		pylons		. toxicity and safety hazard
		c	∞ structures	RT	acroleins
tourism	ı		tanks (containers)		benzene poisoning
(adde	ed April 1999)				beryllium poisoning
ĠS	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
00	• travel				intoxication
	- 114401	Townse	end avalanche		soil pollution
tourmal	line	UF			con ponation
GS	aluminum compounds	GS	avalanches	toxicolo	pav
ao	. tourmaline	ao	. Townsend avalanche	RT	benzene poisoning
	boron compounds	RT			beryllium poisoning
		пі	electromagnetic absorption		bioavailability
	. tourmaline		electron avalanche		biomarkers
	minerals		ion impact		
	. tourmaline		secondary emission		carbon tetrachloride poisoning
	silicon compounds	c	∞ surfaces		curare
	. silicates	_	and Production		endotoxins
	sodium silicates		end discharge		fungicides
	tourmaline		A type of direct current discharge be-		hazards
	sodium compounds		wo electrodes immersed in a gas and		hemoperfusion
	sodium silicates	requirin	g electron emission from the cathode.		hydrocarbon poisoning
	tourmaline	GS	electric current		insecticides
RT	igneous rocks		. electric discharges		intoxication
	·9····		Townsend discharge		nonpoint sources
Tournes	sole satellite		gas discharges		pesticides
	D-2 satellites		toroidal discharge		pollution
OOL	D 2 Satcinics		ring discharge		red tide
tourniq	uets	DT			toxic diseases
		RT	electrodeless discharges		
GS	medical equipment		ion impact		toxicity
	tourniquets				vaccines
RT	blood circulation		nd_surfaces		
	blood flow	USE	Townsend avalanche		and antitoxins
	first aid			GS	toxins and antitoxins
			iseases		. endotoxins
	s asteroid	UF	poisoning (toxicology)		. polybrominated biphenyls
(adde	ed 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		140000
	meteorolas		hydrocarbon poisoning	TOM (a	uality control)
tow mis	eilee				total quality management
GS	missiles	RT	lead poisoning	OOL	total quality management
as	. surface to surface missiles	n i	Clostridium botulinum	TDAAC	satellite
			diphtheria		Transit Attitude Control satellite
	antitank missiles		hyperoxia	USE	Transit Attitude Control Satellite
	tow missiles	c	∞ poisoning		
			toxicity		ontaminants
towed b			toxicology	GS	contaminants
UF	drogues				trace contaminants
	towed targets	toxic h	azards	RT	chemical elements
RT	aircraft brakes	GS	hazards		impurities
00	o bodies		. toxic hazards		pollution transport
	brakes (for arresting motion)	RT	aircraft hazards		purity
	drag chutes		biological hazards	0	• tracing
	gliders		flight hazards		
	lifting bodies		hazardous materials	trace el	lements
	parachutes		hazardous wastes	RT	isotopic labeling
	sleds		heavy metals	0	o nutrients
	streamlined bodies		occupational diseases		particle tracks
	submerged bodies		∞ poisoning		siderophile elements
	test vehicles		toxicity		• tracers
			toxicity		• tracing
	tetherlines				• trading
	towing	toxicity		TRACE	satellite
	trailers	GS	toxicity		ed May 1998)
			. benzene poisoning		
towed to	argets		. beryllium poisoning	USE	Transition Region and Coronal
USE	targets		. carbon monoxide poisoning		Explorer
	towed bodies		. carbon tetrachloride poisoning		
			hydrocarbon poisoning	∞ tracers	
Tower 9	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	RT	LISTED BELOW) ammunition
	Tower Shielding Reactor 2		bioavailability	111	isotopic labeling
рт					
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) multiple target tracking ∞ tubes phase locked systems tracking studies USE tracking (position) trachyte video landmark acquisition and GS rocks ∞ tracks . igneous rocks (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) . trachyte SN tracking networks soils RT GS networks syenite UF trails . tracking networks RT conveyors . . Deep Space Network ground tracks (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) . . Global Tracking Network SN meteor trails . . manned space flight network minitrack system . . MATTS (systems) RT drawings particle tracks . . polystation doppler tracking system trace contaminants particle trajectories . . radar networks trace elements smoke trails . . space detection and tracking tracking (position) system tracked vehicles vehicular tracks . . Space Flight Tracking and Data DEF Land vehicles equipped with continu-Network ous roller belts over cogged wheels for moving traction . . STDN (network) Advanced Range Instrumentation over rough terrain. RT adhesion surface vehicles . motor vehicles GS friction Ship pulling data acquisition . . tractors ground support equipment minitrack system ... tracked vehicles tractors RT crawler tractors GS surface vehicles missile tracking ∞ vehicles . motor vehicles Orion (radio interferometry network) vehicular tracks . . tractors satellite tracking satellite-to-satellite tracking . . . crawler tractors tracking (position) . . tracked vehicles spacecraft tracking target tracking agriculture tracking studies electric motor vehicles tracking (position) ground handling tracking problem . compensatory tracking handling equipment DEF The problem of controlling a system so infrared tracking
missile tracking
multiple target tracking lunar excavation equipment that the output follows a given path. materials handling automatic control planting control theory . optical tracking plowing feedback control . photographic tracking sleds linear systems polystation doppler tracking system towing multiple target tracking . pursuit tracking transportation nonlinear systems . radar tracking trucks optimal control . radio tracking ∞ vehicles output . . wildlife radiolocation problems . range and range rate tracking tracts tracking (position) . space detection and tracking system USE sites trajectory control . spacecraft tracking trajectory optimization . . satellite tracking tradeoffs . . . satellite-to-satellite tracking RT decision making . star trackers tracking radar management analysis . CCD star tracker A radar used for following a target. DEF management planning . video landmark acquisition and GS radar . tracking radar . . Cobra Dane (radar) tracking Trader aircraft RT air traffic control USE C-1A aircraft aircraft detection coherent radar approach control continuous wave radar tradescantia detection digital radar systems GS plants (botany) identifying monopulse radar tradescantia instrument landing systems pulse radar TRADEX radar system laser ranger/tracker radar tracking multispectral tracking telescopes GS radar satellite-borne radar search radar . TRADEX radar system position (location) rangefinding search radar surveillance radar ray tracing ∞ systems TRADEX radar system satellite doppler positioning solar sensors target recognition trajectory measurement tracking radar sound localization sound ranging tracking problem tracking stations traffic DEF Stations set up to track objects moving traffic through the atmosphere or space, usually by . air traffic ∞ tracks means of radio or radar. accidents Tracking and Data Relay Satellites
USE TDR satellites GS stations avoidance . tracking stations harbors . . Deep Space Instrumentation transportation Facility tracking antennas USE directional antennas . . Global Tracking Network traffic control DEF Control of vehicular traffic such as pri-ority highway lanes, stoplight control, rapid-. polystation doppler tracking system RT ∞ fences tracking filters Electron devices for attenuating unground stations transit train control, or air traffic control. ground support equipment Jodrell Bank Observatory wanted signals while passing desired signals, by GS traffic control means of phase lock techniques which reduce . air traffic control . . automated en route ATC the effective bandwidth of the circuit and elimi-∞ mars nate amplitude variations. minitrack system . radar approach control electromagnetic wave filters
. bandpass filters missile tracking air traffic controllers (personnel) radar networks airport towers tracking filters satellite tracking approach control space detection and tracking system . electric filters avoidance

Space Flight Tracking and Data

Network

spacecraft tracking

. tracking filters

adaptive filters

bandstop filters

collision avoidance

ground based control

∞ control

	National Aviation System		. Alpha jet aircraft	space flight training
	m Alb		. jet provost aircraft	virtual reality
tragaca			. L-29 jet trainer	
GS	plants (botany)		. T-2 aircraft	trajectories
	tragacanth		. T-28 aircraft	DEF In general, paths traced by bodie
Trailbla	zer 1 reentry vehicle		. T-33 aircraft . T-37 aircraft	moving as a result of an externally applied force
	Trailblazer 1 rocket vehicle		. T-38 aircraft	considered in three dimensions.
	reentry vehicles		. T-39 aircraft	GS trajectories
	. Trailblazer 1 reentry vehicle		. TS-11 aircraft	. abort trajectories
RT	Honest John rocket vehicle	RT ∝	o aircraft	. ascent trajectories
	Lance missile		bomber aircraft	. ballistic trajectories
	multistage rocket vehicles		fighter aircraft	. descent trajectories
	Nike-Ajax missile		general aviation aircraft	reentry trajectories
	rocket vehicles		jet aircraft	. hyperbolic trajectories
	solid propellant rocket engines		light aircraft	. interorbital trajectories
Trailblas	and translativabials	~	military aircraft	. midcourse trajectories . missile trajectories
	rer 1 rocket vehicle	~	subsonic aircraft	. molecular trajectories
USE	Trailblazer 1 reentry vehicle			. particle trajectories
Trailbla	zer 2 reentry vehicle		analysis	electron trajectories
	Trailblazer 2 rocket vehicle		Evaluation of all facets of instruction	. rendezvous trajectories
	reentry vehicles		ation methods, instructors, effectiveness	. round trip trajectories
	Trailblazer 2 reentry vehicle		ng, and testing.	circumlunar trajectories
RT	multistage rocket vehicles		o analyzing o development	. spacecraft trajectories
	rocket vehicles	•	education	. interplanetary trajectories
	solid propellant rocket engines		handbooks	Earth-Mars trajectories
	TX-354 engine		learning	Earth-Mercury trajectories
	· ·		personnel development	Earth-Venus trajectories
Trailblaz	er 2 rocket vehicle		planning	lunar trajectories
USE	Trailblazer 2 reentry vehicle		retraining	circumlunar trajectories
			Tottalling	Earth-Moon trajectories
trailers		training	devices	moon-Earth trajectories
RT	automobiles		trainers	. spinning unguided rocket trajectory
	couplings	GS	training devices	. underwater trajectories
	sleds tank trucks		. teaching machines	RT apexes
	towed bodies		. training simulators	attractors (mathematics)
	towing		flight simulators	ballistics
	trucks		cockpit simulators	∞ curves
	tradito		spacecraft cabin simulators	downrange
trailing	edge flaps	RT	altitude simulation	equations of motion ∞ flight
UF	variable area wings		audio visual equipment	flight mechanics
GS	airfoils		child device	flight optimization
	. flaps (control surfaces)		cockpit simulators	flight paths
	wing flaps	•	devices	flight time
	trailing edge flaps		education educational television	great circles
	brakes (for arresting motion)		flight simulators	missiles
	. aerodynamic brakes		multimedia	orbits
	wing flaps		onboard equipment	ordnance
	trailing edge flaps		simulators	parabolic flight
	. aircraft brakes		visual aids	∞ paths
	wing flaps			rocket flight
	trailing edge flaps control surfaces	training	evaluation	space flight
	. flaps (control surfaces)	DEF	Procedures for determining the effec-	transfer orbits
	wing flaps	tiveness	of instruction.	
	trailing edge flaps	GS	evaluation	trajectory analysis
	drag devices		. training evaluation	RT ∞ analyzing
	. aerodynamic brakes	RT	certification	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	0	performance	Goddard Trajectory Determination
	vortex flaps		reviewing schools	System
			students	impact prediction
trailing			Students	mathematical models
GS	edges	training	simulators	numerical analysis
	. trailing edges	UF	simulator training	orbital mechanics
DT	blunt trailing edges	GS	simulators	preflight analysis
RT	airfoils blunt leading edges		. training simulators	systems analysis
	leading edges		flight simulators	trajectory planning
	sharp leading edges		cockpit simulators	
	vortex flaps		spacecraft cabin simulators	trajectory control
	voltox hapo		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	landing sites
4			flight training	optimal control
training	advection		in-flight simulation	optimization
USE	education		landing simulation lunar orbit and landing simulators	post boost propulsion system range safety
training	aircraft	~	missile simulators	thrust programming
	training aircraft		pilot training	tracking problem
30			F	account problem

transfer orbits trajectory planning linear circuits . electromagnetic wave transmission low conductivity . . radio transmission trajectory measurement ∞ low resistance . transequatorial propagation RT 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 . transfer functions flight optimization transportation genetic algorithms . . loop transfer functions Goddard Trajectory Determination transcription (genetics) . . modulation transfer function System (added April 2002) . optical transfer function pursuit-evasion games Transfer of genetic information from amplification tracking problem DNA to mRNA automatic control deoxyribonucleic acid bandwidth trajectory planning gene expression coupling coefficients trajectory planning gene expression regulation damping (added December 1990) genetics dynamic characteristics path planning ribonucleic acids dynamic response planning feedback GS 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 trajectory optimization or media as microphones or thermocouples. nonlinear feedback Voronoi diagrams GS transducers Nyquist diagram digital transducers output electronic transducers tranquilizers positive feedback image transducers self oscillation GŚ drugs . tranquilizers interdigital transducers sensitivity central nervous system depressants magnetic transducers ∞ systems hypertension . mode transformers time constant . piezoelectric transducers sedatives transient response . . piezoelectric gages . piezoresistive transducers Transall C-160 aircraft transfer of training learning
. transfer of training USE C-160 aircraft . piezoelectric gages GS pressure sensors transatmospheric vehicles abilities . Bourdon tubes aerospace planes education quartz transducers aerospace vehicles generalization (psychology) . sound transducers ∞ aircraft . electroacoustic transducers aircraft design hydrophones transfer orbits DEF In interplanetary travel, elliptical trajectories tangent to the orbits of both the departure National Aerospace Plane Program loudspeakers ∞ spacecraft . microphones planet and the target planet. Used for Hohmann spacecraft design thermopiles trajectories, Hohmann transfer orbits, and orbital X-30 vehicle torquers transfer. ultrasonic wave transducers UF Hohmann trajectories transceivers bulk acoustic wave devices USE transmitter receivers Hohmann transfer orbits control equipment orbital transfer transcendental functions orbits data converters functions (mathematics) ∞ detectors . elliptical orbits transcendental functions . . transfer orbits energy conversion efficiency . . exponential functions extensometers . . interplanetary transfer orbits . . . logarithms form factors . spacecraft orbits . . transfer orbits . . periodic functions instrument receivers . . . trigonometric functions instrument transmitters . . interplanetary transfer orbits aeroassist ∞ instruments

.... cosine series

... sine series

. . . . tangents

### transconductance

The real part of the transadmittance. Note: Transconductance is, as most commonly used, the interelectrode transconductance between the control grid and the plate. At low 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

### transearth injection

GS injection

transearth injection

ultrasonic cleaning

vibration meters

measuring instruments

recording instruments

photoelectric cells

remote sensors

strain gages

probes

∞ sensors

meteorological instruments

temperature measuring instruments

injection guidance midcourse guidance orbital mechanics transfer orbits

### transequatorial propagation

GS transmission

aerobraking aerocapture aeromaneuvering circumlunar trajectories Earth orbital rendezvous Earth orbits

Earth-Mars trajectories Earth-Mercury trajectories Earth-Moon trajectories 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 masers electric coils 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 mass flow rate tance. Used for TED. oscillators 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 dynamic characteristics transforming genes (added July 2002) gallium arsenides . transient response indium phosphides responses USE oncogenes microwave amplifiers . dynamic response microwave oscillators transient response transforms RT amplification transformations (mathematics) USE 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 transients (surges) the grains producing branched cracking. technology transfer USE surges chemical attack GS transfer orbits transgranular corrosion transportation transistor amplifiers corrosion GS amplifiers transgranular corrosion transform integrals . transistor amplifiers corrosion tests USE 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 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 circuits radio signals GS 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 . . Hilbert transformation microelectronics transient loads Laplace transformation (LIMITED TO FORCE LOADS) printed circuits loads (forces) . Gabor transformation TTL integrated circuits . dynamic loads linear transformations . . transient loads Fujita method transistor logic functions (mathematics) . . . gust loads RT Boolean algebra . . . impact loads gauge invariance ∞ loaic ... landing loads logic circuits **Racah** coefficient . . . shock loads logic design ∞ transformations

. . blast loads

aerodynamic loads contact loads

cyclic loads

threshold logic

GS electronic equipment

transistors

### transformers

GS transformers

wavelet analysis

	. solid state devices		hovering		vanadium
	semiconductor devices		V/STOL aircraft		vanadium isotopes
	transistors		vertical flight		yttrium
	bipolar transistors				yttrium isotopes
	field effect transistors	transiti	on flow		zinc
	charge flow devices	GS			zinc isotopes
	JFET	ao			
			. gas flow		zirconium
	MODFETS		molecular flow		zirconium isotopes
	high electron mobility transistors		transition flow		zirconium 95
	MODFETS	RT	boundary layer thickness	RT	actinide series
		111		111	
	junction transistors		boundary layer transition		complex compounds
	JFET		free molecular flow		metal nitrides
	phototransistors		period doubling		palladium compounds
	silicon transistors		rarefied gas dynamics		rare earth elements
	SOS (semiconductors)		slip flow		refractory metals
	single electron transistors				ruthenium compounds
RT	cascode devices	∞ transit	ion layers		shape memory alloys
	germanium diodes	SN			transuranium elements
	· · · · · · · · · · · · · · · · · · ·	SIN	(USE OF A MORE SPECIFIC TERM IS		transuramum elements
	ion implantation		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		
	miniaturization	RT			on points
	pentodes	וח	boundary layer transition	DEF	In aerodynamics, the points of change
	resonant tunneling		interlayers		ninar to turbulent flow.
			laminar flow	RT	
	SIS (semiconductors)		plasma layers		
	tetrodes			٥	∘ equilibrium
	transistor amplifiers		shear layers		Knudsen flow
	TRAPATT devices		shock layers		phase diagrams
			shock waves		
	triodes		surface layers		Reynolds number
transisto	or-transistor-logic integ circuits		turbulent flow	transiti	on pressure
	TTL integrated circuits			DEF	The pressure at which phase transition
002		transiti	on metals	occurs.	
		UF			
transit			transition elements (chemistry)	GS	pressure
SN	(USE OF A MORE SPECIFIC TERM IS	GS	metals		. transition pressure
	RECOMMENDEDCONSULT THE TERMS		. transition metals	RT	high pressure
	LISTED BELOW)		cadmium		hydrostatic pressure
RT	occultation		cadmium isotopes		
	Transit satellites				phase transformations
	transits		chromium		pressure effects
	transits		chromium isotopes		
	Authority Construction (1995)		cobalt	transiti	on probabilities
	Attitude Control satellite		cobalt isotopes		
UF	TRAAC satellite			RT	
GS	artificial satellites		cobalt 58		excitation
0.0	. navigation satellites		cobalt 60		Fermi surfaces
			copper		nuclear capture
	Transit Attitude Control satellite		· ·		
RT ∝	control		copper isotopes		probability theory
	satellite attitude control		gold		spectra
			gold isotopes		
			gold 198	Tranciti	ion Region and Coronal Explorer
Iransit	navigation system				
GS	satellite navigation systems		hafnium		ed May 1998)
	Transit navigation system		hafnium isotopes	DEF	Small Explorer Mission satellite sup
RT	NASA programs		iridium	portina	the investigation of the relationship
111			iridium isotopes		n fine-scale magnetic fields and the
	navigation satellites		·		
	Nova satellites		iron		ted plasma structures in the transition
	Transit satellites		iron isotopes	region a	and lower corona of the Sun.
			iron 57	UF	Explorer 73 satellite
T	4-114		iron 58		TRACE satellite
	satellites			00	
GS	artificial satellites		iron 59	GS	artificial satellites
	. navigation satellites		manganese		. scientific satellites
	Transit satellites		manganese isotopes		Explorer satellites
РΤ			mercury (metal)		Transition Region and Coronal
RT	Discos (satellite attitude control)				
~	transit		mercury isotopes		Explorer
	Transit navigation system		mercury vapor		small scientific satellites
	ů ,		molybdenum		Transition Region and Coronal
transit t	imo		nickel		Explorer
				DT	
SN	(NOT LIMITED TO ASTRONOMICAL		nickel isotopes	RT	chromosphere
GS	TIMES OF TRANSIT)		niobium		SOHO Mission
us	time		niobium isotopes		solar atmosphere
	. transit time		niobium 95		solar corona
RT	Barritt diodes		osmium		
	CATT devices				solar magnetic field
			osmium isotopes		solar observatories
	flight time		palladium		solar physics
~	motion		platinum		solar transition region
			platinum isotopes		
transiti	on			4	
			rhenium		on temperature
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		rhenium isotopes	DEF	An arbitrarily defined temperature
	LISTED BELOW)		rhodium	within t	he temperature range in which meta
DT	houndary layer transition		rhodium isotopes		characteristics determined usually b
RT	boundary layer transition				
	ductile-brittle transition		ruthenium		I tests are changing rapidly such as fron
	electron transitions		ruthenium isotopes	primaril	y fibrous (shear) to primarily crystalling
	forbidden transitions		scandium	(cleava	ge) fracture. The arbitrarily defined tem
			scandium isotopes		e in a range in which the ductility of
	phase transformations				
			silver		I changes rapidly with temperature.
transitio	n elements (chemistry)		silver isotopes	GS	temperature
	ed March 2000)		tantalum		. transition temperature
	transition metals		tantalum isotopes	RT	ductile-brittle transition
UGE	nanomon metalo			пі	
			technetium		glass transition temperature
transitio	on flight		technetium isotopes		heat of fusion
(adde	ed January 1990)		. titanium		Kondo effect
RT	aircraft maneuvers		titanium isotopes		liquid phases
00	flight		tungsten		melting points
	horizontal flight		tungsten isotopes		phase diagrams

phase transformations ... ionospheric propagation diffraction . solidification . . . . ionospheric F-scatter electromagnetic absorption superconducting power transmission propagation electromagnetic radiation superconductivity . . . microwave transmission optical filters output . . . multipath transmission transits ∞ propagation ... short wave radio transmission (EXCLUDES PARTIAL OR TOTAL OCCULTATION OF ONE BODY BY ANOTHER) radar attenuation SN ... single sideband transmission radio attenuation . . . spread spectrum transmission reflection measuring instruments transequatorial propagation refraction . optical measuring instruments ... transhorizon radio propagation signal reflection transits . . scatter propagation telecommunication ... theodolites . ionospheric F-scatter propagation transmissivity . . . cinetheodolites . . television transmission transmittance optical equipment . heat transmission wave dispersion . optical measuring instruments . . heat transfer transits ... aerodynamic heat transfer transmission circuits ... theodolites . . . . hypersonic heat transfer circuits ... cinetheodolites . supersonic heat transfer . transmission circuits RT compasses ... conductive heat transfer circuit protection sextants convective heat transfer electric power transmission ∞ transit . . . laminar heat transfer signal stabilization radiative heat transfer strip transmission lines translating . . . turbulent heat transfer telecommunication GS translating machine translation transmission efficiency decoding efficiency documentation transmission efficiency ∞ interpretation . . wavelength division multiplexing Aloha system languages technical writing . self propagation . signal transmission attenuation coefficients bit error rate ∞ translators . . data transmission carrier to noise ratios . . . automatic picture transmission data transmission translational motion downlinking electromagnetic wave transmission ... multiple access GS translational motion .... Aloha system . three dimensional motion . . . . carrier sense multiple access frequency hopping intersymbolic interference . . three dimensional flow code division multiple access ... Karman-Bodewadt flow .... demand assignment multiple network control . . . secondary flow opacity
packet transmission
packets (communication)
power efficiency access  $RT \, \infty \, motion$ .... frequency division multiple racks (gears) access rigid structures ... time division multiple access ... packet transmission signal transmission ∞ translators . Aloha system transmission rate (communications) (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) . . . single channel per carrier transmittance transmission uplinking computer programs . . microwave attenuation . . radar transmission transmission electron microscopy (added December 1992) decoders digital to voice translators . . radio transmission . . . double sideband transmission language programming A type of electron microscopy in which repeaters . . . ionospheric propagation the specimen transmits an electron beam fo-. . . ionospheric F-scatter translating cused on it. Image contrasts are formed by the propagation scattering of electrons out of the beam. Various magnetic lenses perform functions analogous to translucence . . . microwave transmission electromagnetic properties . . . multipath transmission those of ordinary lenses in light microscopy. . optical properties . . translucence . short wave radio transmission . single sideband transmission TEM (microscopy) GS microscopy spread spectrum transmission light transmission . electron microscopy . . . transequatorial propagation . . transhorizon radio propagation . . satellite transmission opacity ... transmission electron optical density transmissivity microscopy electron beams transparence . . telemetry electron scattering biotelemetry
P.A.C.M. telemetry field emission translunar injection ion microscopes PCM telemetry GS injection magnetic lenses translunar injection . . . radio telemetry microanalysis injection guidance pulse frequency modulation phase contrast midcourse guidance telemetry scanning tunneling microscopy orbital mechanics . . television transmission transfer orbits sound transmission transmission fluids stress propagation RT fluid transmission lines translunar space telephony ∞ fluids USE interplanetary space . wave propagation hydraulic fluids . . acoustic propagation working fluids sound propagation Process by which radiant energy pro-. . diffraction propagation transmission lines ceeds through any material or object. Used for ground wave propagation DEF The conductive connectons between coaxial transmission. . . ionospheric propagation system elements which carry signal power. (2) coaxial transmission ionospheric F-scatter propagation lines used for electric power transmission. transmission trunks (lines) . . light scattering . demultiplexing transmission lines . . . halos . electric power transmission . . scatter propagation . communication cables . electromagnetic wave transmission . ionospheric F-scatter propagation coaxial cables . shock wave propagation . . light transmission . fluid transmission lines . transequatorial propagation . . . light scattering . power lines . . . . halos absorptance . strip transmission lines atmospheric attenuation . . microwave attenuation . . microstrip transmission lines . . radar transmission . submarine cables . underground transmission lines attenuation . . radio transmission broadcasting

 $\infty \, conduction$ 

RT acoustic delay lines

. . . double sideband transmission

	antenna couplers		transmissivity		rawinsondes
	antenna feeds	RT	absorptance		radiotelephones
	backward waves		absorptivity		sonobuoys
۰	∘ cables		density (mass/volume)		transmitter receivers
	circuit protection		light scattering		. repeaters
	circuits		opacity	RT	antennas
	delta antennas	c	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
	electric wire		visibility		telecommunication
	electrical engineering				television transmission
	electrification		ssometers		transponders
	harnesses	GS	measuring instruments		
	impedance matching		. optical measuring instruments	transm	
	insulators		transmissometers	GS	nuclear reactions
۰	∘ lines		optical equipment		. nuclear transformations
	mode transformers		optical measuring instruments		transmutation
	nonresonance		transmissometers	RT	neutron irradiation
	optical fibers	RT	densitometers		neutron transmutation doping
	Smith chart	• • • • • • • • • • • • • • • • • • • •	photometers		radiogenic materials
			radiance		radiogenic materials
	standing wave ratios		telephotometry	trono N	antunian abiaata
	superconducting power transmission				eptunian objects
	telecommunication		transmittance		ed June 2006)
	waveguides	****	Hansa		Solar system objects that orbit the sun
	wiring	transm			verage distance that is greater than the
		DEF	The ratio of the radiant flux transmitted		listance of Neptune.
transm	ission loss		edium or a body to the incident flux.	UF	TNO (astronomy)
DEF	The reduction in the magnitude of	GS	electromagnetic properties	GS	celestial bodies
some o	haracteristic of a signal between two		. optical properties		. trans-Neptunian objects
	points in a transmission system.		transmittance		Charon
RT	attenuation	RT	absorptance		Pluto (planet)
	current regulators		attenuation coefficients		Quaoar
	electric power transmission		density (mass/volume)	RT	asteroids
	insertion		electromagnetic absorption		Kuiper belt
			infrared absorption		•
	insertion loss		light (visible radiation)		Oort cloud
	losses				planetology
	lossy media		optical density		solar system
	silence		photometry		
	transmission rate (communications)		ray tracing		eanic communication
	voltage regulators		reflectance	GS	telecommunication
	wave dispersion		scattering		. transoceanic communication
	·		thermochromic coatings		transoceanic systems
transmi	ission rate (communications)		transmission		. transoceanic communication
	ed July 1993)		transmission efficiency	RT	facsimile communication
UF	transmission speed (communications)		transmissivity		radio communication
GS	rates (per time)		transmissometers		Relay satellites
ao	. transmission rate		transparence		Helay Satellites
			transparence	trancos	eanic flight
БТ	(communications)	tronom	tter receivers		
RT	access time				Flight across an ocean.
	bit error rate	DEF	Combinations of transmitters and re-	HI∘	∘ flight
	channel capacity		in singe housings, with some compo-	_	
	data transmission	nents b	eing used by both units. Used for trans-		eanic systems
	delay	ceivers.		GS	transoceanic systems
	interprocessor communication	UF	transceivers		. transoceanic communication
	satellite communication	GS	communication equipment	RT	intercontinental ballistic missiles
	signal reception		. radio receivers		ocean data acquisitions systems
	signal transmission		transmitter receivers	0	systems
	telecommunication		radio equipment		telecommunication
	time lag		. radio receivers		transportation
			transmitter receivers		world data centers
	transmission efficiency		. radio transmitters		World data contoro
	transmission loss		transmitter receivers	trancon	ic aircraft
4			receivers		
	ssion speed (communications)			USE	supersonic aircraft
USE	transmission rate		. radio receivers	-	· A: ((T / / D
	(communications)		transmitter receivers		nic Aircraft Technology Program
			transmitters	USE	TACT program
transm	issions (machine elements)		. radio transmitters		
DEF	The gearing system by which power is		transmitter receivers	transon	ic compressors
transmit	ted from the engine to the live axle in an	RT	interrogation	GS	compressors
	bile. Also known as gearboxes.		transponders		. transonic compressors
UF	gearboxes		It	RT	supersonic compressors
GS	mechanical drives	transm	itters		turbocompressors
as	. transmissions (machine elements)	DEF	Devices used for the generation of		
RT			of any type and form which are to be	transan	ic flight
пı	gears				
	shafts (machine elements)		ted. Used for senders.	HI∘	oflight
	torque converters	UF	senders		rocket flight
	torque motors	GS	transmitters		sonic booms
	vehicle wheels		. emergency locator transmitters . instrument transmitters		supersonic flight

. radar transmitters

. radio transmitters . . radio beacons

. radio beacons
. omnidirectional radio ranges
. self calibrating omnirange
radiometeorographs
radiosondes
. ionosondes

transmissivity

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 to the boundary.

GS electromagnetic properties

. optical properties

transonic flow

sonic flow

transonics

fluid flow

sonics.

UF

GS

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-

	. compressible flow	turbidity	C-2 aircraft
	. transonic flow		C-5 aircraft
RT	aerodynamics	transparent materials	C-9 aircraft
	compressibility effects	USE transparence	C-15 aircraft
۰	∘ flow flow velocity	transpiration	C-17 aircraft
	gas flow	DEF The passage of gas or liquid through a	C-33 aircraft
	nozzle flow	porous solid (usually under conditions of mo-	C-35 aircraft C-46 aircraft
	Ringleb flow	lecular flow). Used for fluid transpiration.	C-47 aircraft
	shock waves	UF fluid transpiration	C-54 aircraft
	sonic nozzles	GS phase transformations . vaporizing	C-118 aircraft
	subsonic flow supersonic flow	evaporation	C-119 aircraft
	trisonic wind tunnels	transpiration	C-121 aircraft
	wind tunnels	RT cooling	C-123 aircraft
		cooling systems	C-124 aircraft C-130 aircraft
	nic flutter	evanescence	C-130 aircraft
GS	vibration	evapotranspiration evolution (liberation)	C-133 aircraft
	. structural vibration flutter	gas evolution	C-135 aircraft
	transonic flutter	mass transfer	C-140 aircraft
	self induced vibration	molecular flow	C-141 aircraft
	transonic flutter	outgassing	C-160 aircraft
RT	missile vibration	permeating	CH-21 helicopter CL-44 aircraft
	subsonic flutter	perspiration	. DC 3 aircraft
	supersonic flutter	plant physiology temperature control	DC 7 aircraft
transon	io inlote	temperature control	P-160 aircraft
	supersonic inlets	transpiration cooling	P-166 aircraft
002		USE sweat cooling	spanloader aircraft
transor	nic nozzles	Lance de La Paris	. YC-14 aircraft
RT	conical nozzles	transplantation	. CH-3 helicopter . CH-34 helicopter
	convergent-divergent nozzles	RT clinical medicine heart implantation	. CH-46 helicopter
	hypersonic nozzles	surgery	. CH-47 helicopter
٥	o nozzles		CH-54 helicopter
	sonic nozzles supersonic nozzles	transplutonic planets	. CL-84 aircraft
	wind tunnel nozzles	(added June 1998)	. CL-823 aircraft
		USE hypothetical planets	. Concorde aircraft . CV-880 aircraft
transor	nic speed	transponder control group	. DC 8 aircraft
SN	(APPROXIMATELY MACH 0. 8 TO 1. 2)	UF TCG (tracking)	. DC 9 aircraft
	The speed of a body relative to the	RT ∞ control	. DC 10 aircraft
	ding fluid at which the flow is in some 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 transponders	. DHC 4 aircraft . DHC 5 aircraft
	velocity	transponders	. DO-31 aircraft
ОТ	. transonic speed	transponders	. DO-328 aircraft
RT	acoustic velocity	DEF Combined receiver and transmitter	. Electra aircraft
	subsonic speed supersonic speed	whose funcion is to transmit signals automati-	. European Airbus
	Supersonie Speed	cally when triggered by an interrogator. Used for	A-300 aircraft
transon	ic turbines	responders.	A-310 aircraft
USE	supersonic turbines	UF <i>responders</i> GS radio equipment	A-320 aircraft A-330 aircraft
		. transponders	A-330 aircraft
transor	nic wind tunnels	RT air traffic control	A-380 aircraft
GS	test facilities	Beacon Collision Avoidance System	. F-27 aircraft
	. wind tunnels	interrogation	. F-28 transport aircraft
RT	transonic wind tunnels blowdown wind tunnels	radar beacons	. G-1 aircraft
п	hypersonic wind tunnels	radar equipment radio receivers	. G-222 aircraft
	slotted wind tunnels	radio receivers radio transmitters	. H-19 helicopter . H-53 helicopter
	subsonic wind tunnels	transmissivity	. H-56 helicopter
	supersonic wind tunnels	transmitter receivers	. HC-3 helicopter
	wing flow method tests	transmitters	HFB-320 aircraft
		transponder control group	. IL-14 aircraft
transon. USE	transonic flow	Augustus and advantable	. IL-76 aircraft
USL	transome now	transport aircraft GS transport aircraft	. IL-86 aircraft . IL-96 aircraft
transpa	rence	. 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
	transparence	. Argosy MK-1 aircraft	. Lockheed model 18 aircraft
RT	absorptance	. BAC 111 aircraft	. MD 11 aircraft
	absorptivity atmospheric optics	. Boeing 707 aircraft . Boeing 720 aircraft	. MD 80 aircraft . MH-262 aircraft
	clarity	. Boeing 720 aircraft	. Mystere 20 aircraft
	density (mass/volume)	. Boeing 733 aircraft	. Mystere 50 aircraft
		. Boeing 737 aircraft	. S-58 helicopter
	electromagnetic absorption		
	haze	. Boeing 747 aircraft	S-61 helicopter
	haze light transmission	. Boeing 747 aircraft . Boeing 757 aircraft	. SA-330 helicopter
	haze light transmission opacity	. Boeing 747 aircraft . Boeing 757 aircraft . Boeing 767 aircraft	. SA-330 helicopter . SC-5 aircraft
	haze light transmission opacity optical density	. Boeing 747 aircraft . Boeing 757 aircraft . Boeing 767 aircraft . Boeing 777 aircraft	. SA-330 helicopter . SC-5 aircraft . SC-7 aircraft
	haze light transmission opacity	. Boeing 747 aircraft . Boeing 757 aircraft . Boeing 767 aircraft	. SA-330 helicopter . SC-5 aircraft
	haze light transmission opacity optical density radome materials	. Boeing 747 aircraft . Boeing 757 aircraft . Boeing 767 aircraft . Boeing 777 aircraft . Boeing 2707 aircraft . Boeing 2707 aircraft	. SA-330 helicopter . SC-5 aircraft . SC-7 aircraft . SH-3 helicopter

Cessna 402B a		diffusion theory	tru	icks
Mercure aircraft		gas transport	tranenorta	tion networks
. Boeing 717 aircraft	ап	integral equations		etworks of highways, railways, sub-
. tanker aircraft . TU-124 aircraft		molecular interactions  Monte Carlo method		for the movement of passenger and
. TU-144 aircraft		pollution transport	cargo.	for the movement of passenger and
. TU-154 aircraft		reaction-diffusion equations		ghways
. TU-204 aircraft		∞ theories	,	ersections
. UH-34 helicopter		theories		oid transit systems
. UH-60A helicopte		sport vehicles	roa	ads
UH-61A helicopte		N ((USE OF A MORE SPECIFIC TERM IS		Insportation
. VC-10 aircraft		RECOMMENDEDCONSULT THE TERMS		
. very large transp	ort aircraft R	LISTED BELOW)  T crawler tractors	transporte	
. Viscount aircraft		ground effect machines		rface vehicles ransporter
. XC-142 aircraft		rapid transit systems	RT ∞ co	
. YS-11 aircraft		ships		hicles
RT air transportation ∞ aircraft		transport aircraft	10	1110100
commercial aircraf	+	∞ vehicles	transputer	s
general aviation a	rcraft		(added A	August 1989)
jet aircraft	trans	portation		ta processing equipment
light aircraft	GS			omputers
∞ low wing aircraft		. air transportation		transputers
∞ military aircraft		. marine transportation . rail transportation		chitecture (computers)
passenger aircraft		. rapid transit systems		stributed processing
rotary wing aircraf	t	. space transportation		erprocessor communication
∞ subsonic aircraft		space transportation system		croprocessors
supersonic aircraft		Advanced Launch System (STS)	μa	rallel processing (computers)
∞ transport vehicles		Saenger space transportation	transurani	um elements
turbofan aircraft		system		ements above uranium in the peri-
turboprop aircraft		. urban transportation		hat is, with an atomic number greater
utility aircraft	R'	T artificial harbors	than 92.	g
V/STOL aircraft water takeoff and	anding aircraft	automated guideway transit vehicles		emical elements
water takeon and	anding ancialt	automated transit vehicles	. а	ctinide series
transport coefficients		cargo		transuranium elements
USE transport propert	ies	contractors		. americium
		conveyors		americium isotopes
transport properties		deepwater terminals		americium 241
UF transport coefficier		delivery		. berkelium
GS transport propert		distributing ∞ distribution		. californium
. atmospheric con	-	electric automobiles		californium isotopes
ionospheric con	ductivity	evacuating (transportation)		. curium
. carrier mobility		freight costs		curium isotopes curium 242
electron mobility	/	freighters		curium 242
. diffusion coefficie	nt	handling equipment		. einsteinium
Soret coefficien		hauling		. fermium
. electrical resistivi		highways		. lawrencium
ionospheric con	•	logistics		. mendelevium
. magnetoresistiv		materials handling		. neptunium
photoconductivi		missiles		neptunium isotopes
plasma conduct		motor vehicles		. nobelium
superconductivi	ty	offshore docking		. plutonium
Kondo effect		offshore platforms		plutonium isotopes
. gaseous diffusior	1	packaging		plutonium 238
gaseous self-dit	fusion	passengers		plutonium 239
. ionic mobility		pipelines		plutonium 240
. thermal conductiv		riding quality roads		plutonium 241
. thermal diffusivity	1	routes		plutonium 244
. viscosity		services		. sergenium uclides
eddy viscosity		site selection		isotopes
gas viscosity RT binary fluids		tanker terminals		. radioactive isotopes
Boltzmann transpo	ort equation	terminal facilities		transuranium elements
∞ conductivity	ort equation	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 t	ests	transportation networks		curium
kinetic theory		∞ travel		curium isotopes
Lighthill gas mode	l	trucks		curium 242
mobility				curium 244
∞ physical properties	rans R	portation energy  Tallocations		einsteinium fermium
pollution transport	n	cargo		lawrencium
∞ properties radiation transport		commercial energy		mendelevium
Seebeck effect		distributing		neptunium
∞ solid state physics		domestic energy		neptunium isotopes
thermoelectricity		economic factors		nobelium
alomiocomony		∞ energy		plutonium
transport theory		energy conversion		plutonium isotopes
GS kinetic theory		engines		plutonium 238
. transport theory		fuels		plutonium 239
Chapman-Ensk		hauling		plutonium 240
. Eyring theory		industrial energy		plutonium 241
mixing length flo		ships		plutonium 244
RT Boltzmann transpo	ort 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	00	waves		
	curium isotopes			trapped	plasma avalanche triggered transit
	curium 242	traneval	sely excited atmospheric lasers		TRAPATT devices
				002	TITAL ALL GOVICOO
	curium 244	USE	TEA lasers		Lyantiana
	einsteinium				I vortices
	fermium	TRAP p	rogram	(add	ed August 1989)
	lawrencium		programs	DEF	Air flow in rotary motion but trapped
		ao			to leading edge vortex separation, which
	mendelevium		TRAP program		
	neptunium	RT	plasma control		es not only lift but also drag. The trapped
	neptunium isotopes	0<	radiation	vortices	result in thrust and reduced drag. Used
	nobelium			for vorte	ex traps.
		TDADAT	TT devices	UF	
	plutonium				,
	plutonium isotopes	UF	trapped plasma avalanche triggered	GS	vortices
	plutonium 238		transit		. trapped vortices
		GS	electronic equipment	RT	counterflow
	plutonium 239	ao	. solid state devices	• • • •	flow distribution
	plutonium 240				
	plutonium 241		semiconductor devices		mixing
	plutonium 244		TRAPATT devices		rotating fluids
		RT	avalanche diodes		rotating liquids
	sergenium				
RT	transition metals	04	o devices		turbulent mixing
			diodes		turbulent wakes
trancyo	se acceleration		transistors		vortex rings
			ti di lolotoro		
GS	rates (per time)				vorticity
	. acceleration (physics)	TRAPAT	TT diodes		
	transverse acceleration	USE	avalanche diodes	trappin	g
DT				GS	trapping
nı∞	acceleration	*****	idal tail auntaga	0.0	
	acceleration measurement	•	idal tail surfaces		cryotrapping
	acceleration stresses (physiology)	GS	assemblies	RT	conduction bands
			. tail assemblies		crystal defects
	angular acceleration				flux pinning
	transverse momentum		. trapezoidal tail surfaces		
			planforms		ion storage
transvei	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		
ΠI	dynamic loads			traps	
	force distribution		hypersonic aircraft		trans
	load distribution (forces)		rudders	GS	traps
	loading moments		stabilizers (fluid dynamics)		. cold traps
			otabilizate (ilaia ayriariliaa)		
			auparaania airaraft		ion trans (instrumentation)
	shear stress		supersonic aircraft		. ion traps (instrumentation)
	shear stress static loads	~	supersonic aircraft surfaces		. vapor traps
	static loads	~	surfaces	RT	
	static loads stress distribution	ox		RT	vapor traps concentrators
	static loads		surfaces sweptback tail surfaces	RT	vapor traps concentrators entrapment
	static loads stress distribution	trapezo	swirfaces sweptback tail surfaces idal wings	RT	vapor traps concentrators entrapment separators
transvei	static loads stress distribution stresses		surfaces sweptback tail surfaces	RT	vapor traps concentrators entrapment
	static loads stress distribution stresses rse momentum	trapezo	surfaces sweptback tail surfaces idal wings airfoils	RT	vapor traps concentrators entrapment separators
(adde	static loads stress distribution stresses (se momentum ad June 1999)	trapezo	surfaces sweptback tail surfaces idal wings airfoils . wings		vapor traps concentrators entrapment separators
(adde	static loads stress distribution stresses rse momentum	trapezo	surfaces sweptback tail surfaces  idal wings airfoils . wings low aspect ratio wings	∞ travel	vapor traps concentrators entrapment separators valves
(adde	static loads stress distribution stresses (se momentum ad June 1999)	trapezo	surfaces sweptback tail surfaces idal wings airfoils . wings		vapor traps concentrators entrapment separators valves
(adde GS	static loads stress distribution stresses  rse momentum d June 1999) momentum . transverse momentum	trapezo	surfaces sweptback tail surfaces  idal wings airfoils . wings low aspect ratio wings trapezoidal wings	∞ travel	vapor traps concentrators entrapment separators valves  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS
(adde	static loads stress distribution stresses  re momentum rd June 1999) momentum . transverse momentum angular momentum	trapezo	swrfaces sweptback tail surfaces  idal wings airfoils . wings low aspect ratio wings trapezoidal wings swept wings	∞ <b>travel</b> SN	vapor traps concentrators entrapment separators valves  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)
(adde GS	static loads stress distribution stresses  rse momentum rd June 1999) momentum . transverse momentum angular momentum elementary particle interactions	trapezo	swifaces sweptback tail surfaces  idal wings airfoils . wings . low aspect ratio wings trapezoidal wings . swept wings swept wings swept forward wings	∞ travel	vapor traps concentrators entrapment separators valves  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) distance
(adde GS	static loads stress distribution stresses  re momentum rd June 1999) momentum . transverse momentum angular momentum	trapezo	surfaces sweptback tail surfaces  idal wings airfolls . wings . low aspect ratio wings trapezoidal wings . swept wings swept forward wings trapezoidal wings trapezoidal wings	∞ <b>travel</b> SN	vapor traps concentrators entrapment separators valves  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)
(adde GS	static loads stress distribution stresses  ze momentum ad June 1999) momentum . transverse momentum angular momentum elementary particle interactions particle motion	trapezo	swifaces sweptback tail surfaces  idal wings airfoils . wings . low aspect ratio wings trapezoidal wings . swept wings swept wings swept forward wings	∞ <b>travel</b> SN	vapor traps concentrators entrapment separators valves  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) distance harbors
(adde GS	static loads stress distribution stresses  rse momentum rd June 1999) momentum . transverse momentum angular momentum elementary particle interactions	trapezo	surfaces sweptback tail surfaces  idal wings airfoils . wings . low aspect ratio wings trapezoidal wings swept wings swept forward wings trapezoidal wings sweptback wings	∞ <b>travel</b> SN	vapor traps concentrators entrapment separators valves  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) distance harbors logistics
(adde GS RT	static loads stress distribution stresses  re momentum rd June 1999) momentum . transverse momentum angular momentum elementary particle interactions particle motion transverse acceleration	trapezo	surfaces sweptback tail surfaces  idal wings airfoils . wings . low aspect ratio wings . trapezoidal wings . swept wings . swept forward wings . trapezoidal wings . sweptback wings . sweptback wings . sweptback wings . trapezoidal wings . trapezoidal wings	∞ <b>travel</b> SN	vapor traps concentrators entrapment separators valves  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) distance harbors logistics range (extremes)
(adde GS RT transvei	static loads stress distribution stresses  rse momentum rd June 1999) momentum . transverse momentum angular momentum elementary particle interactions particle motion transverse acceleration  rse oscillation	trapezo	surfaces sweptback tail surfaces  idal wings airfoils . wings . low aspect ratio wings trapezoidal wings swept wings swept forward wings trapezoidal wings trapezoidal wings trapezoidal wings sweptback wings trapezoidal wings planforms	∞ <b>travel</b> SN	vapor traps concentrators entrapment separators valves  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) distance harbors logistics range (extremes) tourism
(adde GS RT transver	static loads stress distribution stresses  (se momentum d June 1999) momentum . transverse momentum angular momentum elementary particle interactions particle motion transverse acceleration  (se oscillation Oscillation in which the direction of	trapezo	surfaces sweptback tail surfaces  idal wings airfoils . wings . low aspect ratio wings trapezoidal wings swept wings swept forward wings trapezoidal wings trapezoidal wings trapezoidal wings trapezoidal wings wingplanforms . wing planforms	∞ <b>travel</b> SN	vapor traps concentrators entrapment separators valves  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) distance harbors logistics range (extremes)
(adde GS RT transver	static loads stress distribution stresses  (se momentum d June 1999) momentum . transverse momentum angular momentum elementary particle interactions particle motion transverse acceleration  (se oscillation Oscillation in which the direction of	trapezo	surfaces sweptback tail surfaces  idal wings airfoils . wings . low aspect ratio wings trapezoidal wings swept wings swept forward wings trapezoidal wings trapezoidal wings trapezoidal wings sweptback wings trapezoidal wings planforms	∞ <b>travel</b> SN	vapor traps concentrators entrapment separators valves  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) distance harbors logistics range (extremes) tourism
(addee GS RT ransver DEF motion of	static loads stress distribution stresses  rse momentum ad June 1999) momentum . transverse momentum angular momentum elementary particle interactions particle motion transverse acceleration  rse oscillation Oscillation in which the direction of of the particles is perpendicular to the	trapezo	surfaces sweptback tail surfaces  idal wings airfolls . wings . low aspect ratio wings trapezoidal wings swept wings swept forward wings trapezoidal wings trapezoidal wings trapezoidal wings sweptback wings trapezoidal wings yelanforms lanforms wing planforms . swept forward wings	∞ <b>travel</b> SN RT	vapor traps concentrators entrapment separators valves  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) distance harbors logistics range (extremes) tourism transportation
(addee GS RT transver DEF motion of direction	static loads stress distribution stresses  rse momentum ad June 1999) momentum . transverse momentum angular momentum elementary particle interactions particle motion transverse acceleration  rse oscillation Oscillation in which the direction of of the particles is perpendicular to the of advance of the oscillatory motion in	trapezo	surfaces sweptback tail surfaces  idal wings airfoils . wings . low aspect ratio wings . trapezoidal wings . swept wings . swept forward wings . trapezoidal wings . trapezoidal wings . trapezoidal wings . sweptback wings . trapezoidal wings planforms wing planforms . swept forward wings . swept forward wings . trapezoidal wings	∞ travel SN RT travelin	vapor traps concentrators entrapment separators valves  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) distance harbors logistics range (extremes) tourism transportation  g charge
(addee GS RT transver DEF motion of direction contrast	static loads stress distribution stresses  re momentum rd June 1999) momentum . transverse momentum angular momentum elementary particle interactions particle motion transverse acceleration  re oscillation Oscillation in which the direction of of the particles is perpendicular to the of advance of the oscillatory motion in with longitudinal oscillation, in which the	trapezo	sweptback tail surfaces  idal wings airfoils wings . low aspect ratio wings . trapezoidal wings . swept wings . swept forward wings . trapezoidal wings . trapezoidal wings . trapezoidal wings . sweptback wings . trapezoidal wings sweptback wings . trapezoidal wings lanforms . wing planforms . swept forward wings . trapezoidal wings . sweptback wings	∞ <b>travel</b> SN RT	vapor traps concentrators entrapment separators valves  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) distance harbors logistics range (extremes) tourism transportation  g charge electric charge
(addee GS RT transver DEF motion of direction contrast	static loads stress distribution stresses  rse momentum ad June 1999) momentum . transverse momentum angular momentum elementary particle interactions particle motion transverse acceleration  rse oscillation Oscillation in which the direction of of the particles is perpendicular to the of advance of the oscillatory motion in	trapezo	surfaces sweptback tail surfaces  idal wings airfoils . wings . low aspect ratio wings . trapezoidal wings . swept wings . swept forward wings . trapezoidal wings . trapezoidal wings . trapezoidal wings . sweptback wings . trapezoidal wings planforms wing planforms . swept forward wings . swept forward wings . trapezoidal wings	∞ travel SN RT travelin	vapor traps concentrators entrapment separators valves  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) distance harbors logistics range (extremes) tourism transportation  g charge
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(addec GS RT transver DEF motion of direction contrast direction vance. L	static loads stress distribution stresses  (se momentum ad June 1999) momentum . transverse momentum angular momentum elementary particle interactions particle motion transverse acceleration  (se oscillation  Oscillation in which the direction of of the particles is perpendicular to the of advance of the oscillatory motion in with longitudinal oscillation, in which the of motion in the same as that of ad-	trapezo GS	sweptback tail surfaces  idal wings airfoils wings . low aspect ratio wings . trapezoidal wings . swept wings . swept forward wings . trapezoidal wings . trapezoidal wings . trapezoidal wings . wings . wings . sweptback wings . trapezoidal wings . trapezoidal wings . wing planforms . swept forward wings . trapezoidal wings . sweptback wings . trapezoidal wings . sweptback wings . trapezoidal wings . sweptback wings . trapezoidal wings . trapezoidal wings	∞ travel SN RT travelin	vapor traps concentrators entrapment separators valves  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) distance harbors logistics range (extremes) tourism transportation  g charge electric charge traveling charge electrodynamics
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transver DEF motion contrast direction vance. U GS RT  transver USE transver USE transver DEF placeme lel to the GS	static loads stress distribution stresses  se momentum d June 1999) momentum angular momentum elementary particle interactions particle motion transverse acceleration  se oscillation Oscillation in which the direction of of the particles is perpendicular to the of advance of the oscillatory motion in with longitudinal oscillation, in which the of motion in the same as that of ad- Jose for transverse vibration  . H waves gamma rays harmonic oscillation lateral oscillations stable oscillations transient oscillations se vibration  see wibration  see waves Waves in which the direction of dis- nt at each point of the medium is paral- wave front. transverse waves . H waves	trapezo GS traped GS RT	surfaces sweptback tail surfaces  idal wings airfoils . wings . low aspect ratio wings . trapezoidal wings . swept wings . swept forward wings . swept forward wings . sweptback wings . trapezoidal wings planforms . wing planforms . swept forward wings . trapezoidal wings ids geometry . Euclidean geometry . polygons . tetragons . trapezoids  magnetic fields magnetic fields magnetic fields flux pinning magnetically trapped particles plasma control superconductivity trapping  particles particles particles trapped particles	∞ travel SN RT  travelin GS RT  travelin DEF at the speeds face. D atmospl tempora ionosph UF GS	vapor traps concentrators entrapment separators valves  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) distance harbors logistics range (extremes) tourism transportation  (g charge electric charge traveling charge electrodynamics energy dissipation field theory (physics)  (g ionospheric disturbances Atmospheric gravity waves originating auroral oval or at the terminator with of 1000 km/hour over the Earths sur- ue to interaction between the neutral here and the ionosphere, they result in any enhancements and depletions of the ere that travel with the gravity waves.  TID ionospheric disturbances traveling ionospheric disturbances gravity waves ionospheric currents ionospheric currents ionospheric propagation ionospheric storms
transversuser USE transversuser USE transversuser USE	static loads stress distribution stresses  (se momentum (d June 1999) momentumtransverse momentum angular momentum elementary particle interactions particle motion transverse acceleration  (se oscillation Oscillation in which the direction of of the particles is perpendicular to the of advance of the oscillatory motion in with longitudinal oscillation, in which the of motion in the same as that of ad- Jised for transverse vibration oscillationstransverse oscillation It waves gamma rays harmonic oscillation lateral oscillations stable oscillations transient oscillations se vibration transverse oscillation transverse oscillation transverse oscillation see vibration transverse oscillation	trapezo GS traped GS RT	surfaces sweptback tail surfaces  idal wings airfoils . wings . low aspect ratio wings . swept wings . swept wings . swept forward wings . trapezoidal wings . sweptback wings . trapezoidal wings planforms . wing planforms . swept forward wings . trapezoidal wings . trapezoids  ids geometry . Euclidean geometry . polygons . tetragons . trapezoids  magnetic fields magnetic fields flux pinning magnetically trapped particles plasma control superconductivity trapping  particles particles	∞ travel SN RT  travelin GS RT  travelin DEF at the speeds face. D atmospl tempora ionosph UF GS	vapor traps concentrators entrapment separators valves  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) distance harbors logistics range (extremes) tourism transportation  (g charge electric charge traveling charge electrodynamics energy dissipation field theory (physics)  (g ionospheric disturbances Atmospheric gravity waves originating auroral oval or at the terminator with of 1000 km/hour over the Earths sur- ue to interaction between the neutral here and the ionosphere, they result in any enhancements and depletions of the ere that travel with the gravity waves.  TID ionospheric disturbances traveling ionospheric disturbances gravity waves ionospheric currents ionospheric propagation
transver DEF motion contrast direction vance. U GS RT  transver USE transver USE transver DEF placeme lel to the GS	static loads stress distribution stresses  se momentum d June 1999) momentum angular momentum elementary particle interactions particle motion transverse acceleration  se oscillation Oscillation in which the direction of of the particles is perpendicular to the of advance of the oscillatory motion in with longitudinal oscillation, in which the of motion in the same as that of ad- Jose for transverse vibration  . H waves gamma rays harmonic oscillation lateral oscillations stable oscillations transient oscillations se vibration  see wibration  see waves Waves in which the direction of dis- nt at each point of the medium is paral- wave front. transverse waves . H waves	trapezo GS traped GS RT	surfaces sweptback tail surfaces  idal wings airfoils . wings . low aspect ratio wings . trapezoidal wings . swept wings . swept forward wings . swept forward wings . sweptback wings . trapezoidal wings planforms . wing planforms . swept forward wings . trapezoidal wings ids geometry . Euclidean geometry . polygons . tetragons . trapezoids  magnetic fields magnetic fields magnetic fields flux pinning magnetically trapped particles plasma control superconductivity trapping  particles particles particles trapped particles	∞ travel SN RT  travelin GS RT  travelin DEF at the speeds face. D atmospl tempora ionosph UF GS	vapor traps concentrators entrapment separators valves  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) distance harbors logistics range (extremes) tourism transportation  (g charge electric charge traveling charge electrodynamics energy dissipation field theory (physics)  (g ionospheric disturbances Atmospheric gravity waves originating auroral oval or at the terminator with of 1000 km/hour over the Earths sur- ue to interaction between the neutral here and the ionosphere, they result in any enhancements and depletions of the ere that travel with the gravity waves.  TID ionospheric disturbances traveling ionospheric disturbances gravity waves ionospheric currents ionospheric currents ionospheric propagation ionospheric storms

sudden ionospheric disturbances partial differential equations. ∞ plates hybrid-Trefftz finite element method traveling salesman problem treadmills 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 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 RT additives USE Transient Reactor Test Facility 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 UF conditioning (treating) numbers that are input to a noisy transmission amplifiers GS air conditioning channel. . traveling wave amplifiers coding clinical medicine GS amplifier design . signal encoding heat treatment power amplifiers prewhitening 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 earthquake resistance RT (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) traveling wave modulation SN earthquakes modulation paralysis traveling wave modulation RT Parkinson disease 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 forecasting future events based upon an examianalysis (mathematics) with 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 defoliation Tresca flow electron bunching fluid flow dendrochronology . plastic flow magnetostatic amplifiers forests magnetrons geobotany Tresca flow microwave oscillators herbicides ductility oscillations logging (industry) stability Masonite (trademark) scalloping yield point traveling wave amplifiers orchards phreatophytes triacetin traveling waves GS acetates boowyla traveling waves . triacetin silviculture esters timber identification

solitary waves backward waves elastic waves electromagnetic radiation nonresonance phase velocity plane waves radio waves

### travs

RT ∞ buckets ∞ containers Trefftz method

(added July 1998) DEF Boundary-type approximation scheme for the solution of boundary value problems for

timber inventory

timber vigor

timberline

vegetation

∞ trees

wood

triaminoguanidinenitrate USE **TAGN** 

triaminoguanidinium azide nitrogen compounds

. triacetin

acetic acid

plasticizers

glycerols

solvents

1015

	. azides (organic)		. tribometers		ontaneously or through application of
	triaminoguanidinium azide	RT	friction		l stimulus.
	organic compounds		friction measurement	GS	circuits
	. amines	(	∞ instruments	RT	. trigger circuits anticoincidence detectors
	guanidines		lubricant tests sliding friction	n i	bistable circuits
	triaminoguanidinium azide		tribology		gates (circuits)
			wear tests		multivibrators
triamino	otrinitrobenzene				threshold gates
USE	TATB	tribome	etry		threshold logic
		(add	led September 2002)		thyristors
triangle		USE	friction measurement		trigatrons
GS	geometry				
	. Euclidean geometry	tributa		triggers	
	polygons	RT	drainage patterns	USE	actuators
RT	triangles tetrahedrons		Earth resources		
ΠI	trigonometry		estuaries		metric functions
	ingonomeny		rivers	GS	analysis (mathematics)
trianaula	ar wings	trichlori	ides		. real variables
	delta wings		chlorides		periodic functions
	-	002	omonaco		trigonometric functions
triangu		trichlo	roethylene		cosine series sine series
RT	angles (geometry)	(ada	led September 1995)		tangents
	mapping	GS	halogen compounds		functions (mathematics)
	navigation		. chlorine compounds		. transcendental functions
	trigonometry wildlife radiolocation		trichloroethylene		periodic functions
	wildlife radiolocation		organic compounds		trigonometric functions
triatomi	ic molecules		. ethylene compounds		cosine series
GS	molecules		chloroethylene		sine series
30	. polyatomic molecules	DT	trichloroethylene		tangents
	triatomic molecules	RT	cleaning	RT	Fresnel integrals
RT	diatomic molecules		reduction (chemistry) solvents		sine waves
			Solvents		trigonometry
	stresses	Trident	aircraft		
UF	triaxiality		DH 121 aircraft	trigono	
GS	stresses	002		GS	geometry
БТ	triaxial stresses	trident	submarine		. Euclidean geometry
RT	mechanical properties	GS	water vehicles		analytic geometry
	tensile stress		. ships	рт	trigonometry
triaxialit			submarines	RT	angles (geometry) ∞ science
USE	triaxial stresses		trident submarine	C	triangles
002	Triaxial offoodo		. underwater vehicles		triangulation
tribolia			submarines		trigonometric functions
GS	animals		trident submarine		angonomouro ranoaono
	. invertebrates	RT	,	trim (ba	nlance)
	arthropods		nuclear propulsion	USE	aerodynamic balance
	insects	trienes			
	Coleoptera	GS	organic compounds	trimers	
	beetles	ao	. hydrocarbons	GS	oligomers
	tribolia		aliphatic hydrocarbons		. trimers
tribolos	***		alkenes		prepolymers
tribolog	Science of friction, wear, and lubrica-		trienes		. trimers
tion.	ocience of metion, wear, and lubrica-			RT	dimers
RT	abrasion	triethyl	compounds		monomers
	corrosion	GS			
	erosion		. triethyl compounds	trimeth	
	erosive burning	RT «	∞ chemical compounds	GS	drugs
	fretting		diethyl compounds		. trimethadione
	friction		ethyl compounds		ketones . trimethadione
	interfacial tension				organic compounds
	lubrication		oamine oxide halogen compounds		. cyclic compounds
	triboluminescence	do	0 1		heterocyclic compounds
	tribometers		. fluorine compounds fluoro compounds		trimethadione
	vapor phase lubrication		fluorine organic compounds		
	wear		fluoroamines	trimeth	yl compounds
tribolur	ninescence		trifluoroamine oxide		alkyl compounds
DEF	The emission of light caused by appli-		organic compounds		trimethyl compounds
	of mechanical energy to a solid.		. amines	RT •	∞ chemical compounds
GS	emission		fluoroamines		dimethyl compounds
ao	. light emission		trifluoroamine oxide		methyl compounds
	luminescence		. fluorine organic compounds		
	photoluminescence		fluoroamines		d and Tobago
	triboluminescence		trifluoroamine oxide	GS	landforms
RT	fluorescence				. islands
	friction	trigatro			West Indies
	mechanical properties	GS	switches		Trinidad and Tobago
	photoluminescent bands		. trigatrons		nations
	stresses	HI (	∞ gas tubes	рτ	Trinidad and Tobago Caribbean region
	tribology		pulse modulation	ΠI	South America
tribomo	atore		spark gaps		Journ America
tribome	eters ed September 2002)		trigger circuits	trinitra	mine
	Instruments and related methods for	triager	circuits	GS	nitrogen compounds
	ning the degree of friction between two		Circuits that have two conditions of	GG	. trinitramine
bodies.	g and dogree of inchort between two		with means for passing from one to the		organic compounds
GS	measuring instruments		hen certain conditions are satisfied, ei-		. amines

	trinitramine		wind tunnel tests		iron compounds
Audio dan a		tritium			. pyrrhotite
	compounds	tritium	hudragan 2		troilite
GS	nitrogen compounds	UF	hydrogen 3		minerals
	. nitro compounds	GS	chemical elements		. pyrrhotite
	trinitro compounds		. hydrogen		troilite
RT ∝	chemical compounds		. hydrogen isotopes		sulfur compounds
			tritium		. sulfides
trinitrot			. nuclides		pyrrhotite
UF	TNT (trinitrotoluene)		isotopes		troilite
GS	explosives		hydrogen isotopes	RT	iron meteorites
	. trinitrotoluene		tritium		meteoritic composition
	nitrogen compounds		radioactive isotopes	<i></i>	
	. nitro compounds		tritium	Trojan a	
	nitrobenzenes		gases	USE	T-28 aircraft
	trinitrotoluene		. hydrogen hydrogen isotopes	Trainn	asteroids
RT	exposure		tritium	•	ed August 2000)
		DT			Any asteroid that orbits in the
	azocyclohexane	RT	heavy water		ge points of another (larger) body. In
USE	RDX		nuclear fuels		ar, those asteroids with a revolution pe-
		Triton			proximately equal to that of Jupiter (1:1
triodes		DEF	One of the two satellites of the planet		nce) and clustered at either of the two
RT	CATT devices		e, with a diameter of about 4800 kilome-		ge points60 degrees ahead of or behind
	diodes		biting at a mean distance of 354,000		piter. Most asteroids of this group are
	electron tubes	kilomete			after the heroes of the Trojan War.
	microwave tubes	GS	celestial bodies		celestial bodies
	semiconductor devices	ao	. natural satellites	ao	. asteroids
	tetrodes		Neptune satellites		Trojan asteroids
	thyristors		Triton	RT	Jupiter (planet)
	transistors	RT	Galilean satellites	111	Lagrangian equilibrium points
		111	Neptune (planet)		three body problem
triols			Neptune atmosphere		Trojan orbits
GS	hydroxyl compounds		satellite atmospheres		Trojair orbito
	. alcohols		Titan	Trojan	orhits
	triols		That I	GS	orbits
	cyanuric acid	tritons		0.0	. Trojan orbits
		GS	ions	RT	celestial mechanics
tripheny	rl silicon	0.0	. tritons		many body problem
GS	organic compounds		particles		three body problem
	organic silicon compounds		. charged particles		Trojan asteroids
	triphenyl silicon		energetic particles		···- <b>,</b>
	silicon compounds		nuclei (nuclear physics)	Trombe	e walls
	. organic silicon compounds		tritons	DEF	Structures with passive solar collectors
	triphenyl silicon		. corpuscular radiation	in the w	
			energetic particles	GS	walls
tripheny	/ls		nuclei (nuclear physics)		. Trombe walls
GS	organic compounds		tritons	RT	energy technology
	. hydrocarbons	RT	alpha particles		heat storage
	triphenyls		protons		phase change materials
	phenyls		F		radiative heat transfer
	. polyphenyls	trivalen	t ions		solar energy absorbers
	. triphenyls	GS	ions		solar heating
			. trivalent ions		solar houses
triple ax	is spectrometers	RT	free radicals		thermal insulation
	neutron spectrometers		positive ions		
			valence	tropica	I meteorology
triple st	ars			GS	meteorology
	ed October 1988)	TRMM :	satellite		. tropical meteorology
,	celestial bodies	(add	ed May 1998)	RT	agrometeorology
	. stars		Satellite supporting the joint US-		el Nino
	. triple stars	Japanes	se Tropical Rainfall Measuring Mission		equatorial atmosphere
RT	binary stars		to explore tropical rainfall and its effects		GARP Atlantic Tropical Experiment
	companion stars		Earth energy budget, general circulation,		intertropical convergent zones
	stellar systems		nate. The TRMM satellite represents the		intraseasonal variations
	three body problem		I deployment of a precipitation radar and		Madden-Julian Oscillation
	, , , , , , , , , , , , , , , , , , , ,		microwave radiometer on an Earth-		meteorological parameters
triplet ex	citation	viewing	satellite.		quasi-biennial oscillation
	atomic energy levels	UF	Tropical Rainfall Measuring Mission		TRMM satellite
OOL	atomic energy levels		sat		
triplet st	ata	GS	artificial satellites		l Rainfall Measuring Mission sat
USE	atomic energy levels		. meteorological satellites		led May 1998)
USE	atomic energy levels		TRMM satellite	USE	TRMM satellite
Audio a ala			. scientific satellites		
tripods	aumanta		TRMM satellite		l regions
GS	supports	RT	atmospheric circulation	UF	jungles
DT	. tripods		CERES (experiment)		low latitudes
RT	optical equipment		Earth radiation budget		subtropical regions
4	la mita		equatorial atmosphere		tropics
tripropel			rain	GS	•
USE	liquid rocket propellants		tropical meteorology		tropical regions
					Amazon region (South America)
	wind tunnels	trochoid	_		intertropical convergent zones
DEF	Wind tunnels designed for subsonic,	USE	pivots	RT	climatology
	c, and supersonic flows.				equatorial atmosphere
GS	test facilities	troilite			equatorial regions
	. wind tunnels	GS	chalcogenides		GARP Atlantic Tropical Experiment
	trisonic wind tunnels		. sulfides		geography
RT	slotted wind tunnels		pyrrhotite		hot weather
	transonic flow		troilite		laterites

Lomonosov current wideband communication construction industry meteorology tropospheric waves rain forests (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 tropospheric waves GS . 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 GS tropism ... trypanosome parasites . cyclic compounds . . heterocyclic compounds . aeolotropism . geotropism trypanosome . . . alkaloids gravitropism parasitic diseases . gyrotropism . . . tropyl compounds . neurotropism RT ∞ chemical compounds trypsin GS biopolymers troubleshooting . proteins (ALTITUDE APPROXIMATELY 15 TO 20 KM) USE maintenance . . 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 motor vehicles some conditions there is no abrupt change in . . . melatonin . . trucks lapse rate at any height. . . . serotonin . . . tank trucks antiskid devices 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 nitrogen compounds sphere. The troposphere is characterized by transportation decreasing temperature with height, appreciable . tryptophan transportation energy organic compounds vertical wind motion, appreciable water vapor 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 . . heterocyclic compounds . lower atmosphere . . . indoles ... troposphere operations in the infinitesimal calculus by opera-. . . . tryptophan . . tropopause chemosphere tions in the calculus of finite differences. 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 ill-conditioned problems tropospheric radiation . TS-11 aircraft (mathematics) training aircraft electromagnetic radiation precision . tropospheric radiation TS-11 aircraft RT ∞ radiation RT ∞ aircraft trunks (lines) sky radiation USE transmission lines stratosphere radiation TSR-2 aircraft terrestrial radiation BAC TSR 2 aircraft trunnions

USE

trusses

GS

RT

shafts (machine elements)

structural members

beams (supports)

trusses

arches

attack aircraft

BAC aircraft

iet aircraft

monoplanes

TSR-2 aircraft

TSR-2 aircraft

TSR-2 aircraft

RT

tropospheric scattering

. wave scattering

light scattering

. atmospheric scattering

. tropospheric scattering

GS scattering

	TSR-2 aircraft		supersonic aircraft		tuberculosis
	reconnaissance aircraft		. supersonic transports	∞ tubes	
	. TSR-2 aircraft supersonic aircraft		supersonic commercial air transport	∞ tubes SN	(USE OF A MORE SPECIFIC TERM IS
	. TSR-2 aircraft		TU-144 aircraft		RECOMMENDEDCONSULT THE TERMS LISTED BELOW)
RT ∝	aircraft		transport aircraft	RT	
	la.	DT	. TU-144 aircraft		bronchi
tsunam DFF	A series of waves of extremly long	RI	∞ aircraft		burettes
	nd period typically caused by a sudden	TU-154	aircraft		cannulae capillary tubes
	displacement of a large area of the sea	GS	commercial aircraft		circular tubes
	ring an undersa earthquake.		. TU-154 aircraft		ducts
RT	Earth movements earthquake damage		jet aircraft . TU-154 aircraft		electron tubes eustachian tubes
	earthquakes		transport aircraft		Hilsch tubes
	frontal waves		. TU-154 aircraft		hoses
	seismic waves shock waves		Tupolev aircraft		linings
	surface waves	RT	. <b>TU-154 aircraft</b> ∞ aircraft		manifolds microwave tubes
	tidal waves		cargo aircraft		nanotubes
	water waves		passenger aircraft		pipes (tubes)
TTI into	egrated circuits		TU-104 aircraft		pitot tubes
SN	(TRANSISTOR-TRANSISTOR-LOGIC	TII-20/	aircraft		shock tubes siphons
UF	INTEGRATED CIRCUITS)		led September 1994)		trachea
GS	transistor-transistor-logic integ circuits circuits	GS	commercial aircraft		Venturi tubes
	. integrated circuits		. TU-204 aircraft	tubing	
	TTL integrated circuits		jet aircraft . TU-204 aircraft	USE	pipes (tubes)
RT	electronic packaging large scale integration		passenger aircraft		
	microminiaturization		. TU-204 aircraft		fullerenes
	molecular electronics		transport aircraft		ed September 2001) carbon nanotubes
	transistor circuits		. <b>TU-204 aircraft</b> Tupolev aircraft	OOL	Carbon nanotabes
TU-104	airaraft		. TU-204 aircraft		sher relation
UF	Camel aircraft	RT ·	∞ aircraft		ed March 2004)  A correlation for spiral galaxies be-
GS	commercial aircraft				their luminosity and rotational velocity
	TU-104 aircraft	tube a			be used to calculate the distance to the
	jet aircraft . TU-104 aircraft	GS	electrodes . anodes		or associated galactic cluster.
	monoplanes		tube anodes	RT	cosmology distance
	TU-104 aircraft	RT	cathodes		galactic rotation
	passenger aircraft		electrode materials		luminosity
	. <b>TU-104 aircraft</b> Tupolev aircraft		electron guns		spiral galaxies
	. TU-104 aircraft	tube ca	athodes	tumblin	ng motion
RT ∝	aircraft	GS	electrodes		An attitude situation in which the ve-
	TU-154 aircraft		. cathodes		intinues on its flight, but turns end over
TU-124	aircraft		tube cathodes cold cathodes	end abo RT	out its center of mass.
UF	Cookpot aircraft		hot cathodes	пі	attitude stability coning motion
GS	commercial aircraft		photocathodes		destabilization
	. TU-124 aircraft		thermionic cathodes		mixers
	jet aircraft . TU-124 aircraft	RT	tunnel cathodes cold cathode tubes	c	<ul><li>motion rotating environments</li></ul>
	monoplanes	111	electron guns		satellite rotation
	. TU-124 aircraft		hollow cathodes	o	separation
	passenger aircraft				spacecraft motion
	. TU-124 aircraft transport aircraft	tube g			spacecraft stability
	. TU-124 aircraft	GS	electrodes . tube grids	tumor	suppressor genes
	Tupolev aircraft	RT	bias	(add	ed June 2004)
DT a	. <b>TU-124 aircraft</b> ∍ aircraft		electron guns		Genes that inhibit expression of the
nı ∞	turbofan engines		electron tubes		enic phenotype. They are normally in- n holding cellular growth in check. When
	· ·	,	∞ grids ionizers		uppressor genes are inactivated or lost,
TU-134					r to normal proliferation is removed and
GS	commercial aircraft . TU-134 aircraft	tube h	eat exchangers		ated growth is possible.  genes
	jet aircraft	GS	heat exchangers	GS	. tumor suppressor genes
	. turbofan aircraft	RT	. tube heat exchangers regenerators	RT	cancer
	TU-134 aircraft	п	regenerators		neoplasms
	monoplanes . TU-134 aircraft	tube la	sers		tumor suppressor proteins tumors
	passenger aircraft	DEF			tumors
	. TU-134 aircraft		ock tubes.		suppressor proteins
	Tupolev aircraft . TU-134 aircraft	RT	chemical lasers gasdynamic lasers		ed June 2004)
RT ~	. 10-134 aircraπ ∍aircraft		laser outputs		Proteins that are normally involved in cellular growth in check. Deficiencies or
111 0	- anorar		pulsed lasers		alities in these proteins may lead to
TU-144			shock tubes	unregul	ated cell growth and tumor development.
GS	commercial aircraft		waveguide lasers	GS	
	. supersonic commercial air transport TU-144 aircraft	tuberc	ilosis		. proteins tumor suppressor proteins
	jet aircraft	GS	diseases		organic compounds
	. turbofan aircraft		. infectious diseases		. proteins
	TU-144 aircraft		bacterial diseases	DT	tumor suppressor proteins
	passenger aircraft . TU-144 aircraft		tuberculosis . respiratory diseases	RT	cancer neoplasms
					p

tumor suppressor genes . . tungsten . refractory metals tungsten alloys . tungsten isotopes tumors GS alloys . transition metals GS diseases . heat resistant alloys . . 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 Stellite (trademark) . oxides tumor suppressor genes . . 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 . . chlorides charge transfer devices . . stony meteorites crystal filters . . . tungsten chlorides . . Tungusk meteorite meteorite collisions electric filters . halides electro-optics . . chlorides meteorite craters ∞ filters . tungsten chlorides . . metal halides Tunguska event microwave filters 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 . tungstates frequency pulling . lasers . . calcium tungstates mistuning (turbomachinery) . tunable lasers . . lead tungstates RT DBR lasers diffraction radiation Q factors . zinc tungstates resonance resonant frequencies . tungsten carbides light modulation . tungsten halides resonators optical communication . . 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  ${\scriptstyle \infty\, metal\ compounds}$ resonators supports a growth of mosses, lichens, and nutungsten fluorides Tunisia merous low shrubs underlain by a dark, mucky nations GS halogen compounds GS soil and permafrost. Tunisia . fluorine compounds GS land Africa . plains . . fluorides . . . metal fluorides tundra . . tungsten fluorides tunnel cathodes landforms . halides GS electrodes . plains . cathodes tundra . . fluorides . . tube cathodes . . . metal fluorides Arctic regions tunnel cathodes . . tungsten fluorides RT cold cathode tubes geography . . metal halides cold cathodes North America ... metal fluorides . tungsten fluorides electron tubes . . . tungsten halides hollow cathodes tuners tuners ... tungsten fluorides  $\infty$  tunnels waveguide tuners tungsten compounds radio receivers . tungsten halides tunnel diodes resonance probes .. tungsten fluorides UF Esaki diodes resonant frequencies GS electronic equipment tungsten halides . diodes television receivers GS halogen compounds . . semiconductor diodes . halides ... tunnel diodes tungstates tungsten compounds . . metal halides . . . resonant tunneling diodes . tungstates ... tungsten halides electron tunneling . . calcium tungstates . . . . tungsten chlorides junction diodes . . lead tungstates . . tungsten fluorides MIM diodes tungsten compounds negative conductance . . zinc tungstates tungsten halides negative resistance circuits . . tungsten chlorides resonant tunneling tungsten . . tungsten fluorides wolfram tunnel junctions GS chemical elements ∞ tunnels . tungsten tungsten inert gas welding USE gas tungsten arc welding metals tunnel junctions . refractory metals (added September 1993) DEF An electronic device having an extremely thin potential barrier to electron flow, so tungsten isotopes chemical elements . transition metals

. nuclides

. . isotopes

... tungsten isotopes

that the transport characteristic (the currentvoltage flow) is primarily governed by the quantum-mechanical tunneling process which

. tungsten

refractory materials

. refractory metals

	electrons to penetrate the barrier.		turbines		turbocompressors
RT	barrier layers			A la la a	haala
	electron tunneling		engines		wheels
	heterojunctions	DEF	Engines incorporating a turbine as a		Multivaned wheels or rotors, especially surbine engines, rotated by the impulse
	Josephson junctions photoconductors		I component; especially gas turbine en-		reaction to a fluid passing across the
	quantum electronics	gines. GS	engines		Used for rotor disks and turborotors.
	semiconductor devices	ao	. turbine engines		rotor disks
	semiconductor junctions		gas turbine engines		turborotors
	single electron transistors		hydrogen engines	GS	rotating bodies
	solar cells		jet engines		. rotors
	superconducting devices		T-58 engine		turbine wheels
	tunnel diodes		ramjet engines		wheels . turbine wheels
			integral rocket ramjets	RT	compressor rotors
tunnel r			low volume ramjet engines pulsejet engines		engine parts
USE	electron tunneling		supersonic combustion ramjet		hydraulic equipment
	resistors		engines		impellers
			turboramjet engines		turbines
tunneli	•		turbojet engines		turbomachine blades
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS		Bristol-Siddeley Olympus 593		water wheels
DT	LISTED BELOW)		engine	turbine	s
RT	electron tunneling		Bristol-Siddeley Viper engine	GS	turbomachinery
	resonant tunneling tunneling (excavation)		ducted fan engines J-33 engine	ao	. turbines
	turneling (excavation)		J-34 engine		axial flow turbines
A	(		J-47 engine		gas turbines
	ng (excavation) excavation		J-52 engine		shrouded turbines
do	. tunneling (excavation)		J-57 engine		steam turbines
RT	bedrock		J-58 engine		supersonic turbines
	construction		J-65 engine		two stage turbines
	drainage		J-69-T-25 engine		wind turbines tip vanes
	drilling		J-71 engine	RT	engines
	jacks (lifts)		J-73 engine J-75 engine		geothermal energy conversion
	lining processes		J-79 engine		geothermal energy extraction
	rocks		J-85 engine		impellers
	soils • tunneling		J-93 engine		impulse generators
	underground structures		RA-28 engine		jet engine fuels
	undorground outdotaloo		turbofan engines		jet propulsion
tummala			Bristol-Siddeley BS 53 engine	۰	o nozzles
→ <b>tunnels</b> SN	(USE OF A MORE SPECIFIC TERM IS		CF-700 engine		refractories rotating generators
OIN	RECOMMENDEDCONSULT THE TERMS		convertible fan-shaft engines		rotors
DT	LISTED BELOW)		J-97 engine TF-30 engine		stators
RT	gaps hydraulic test tunnels		TF-34 engine		turbine blades
	lunar shelters		TF-41 engine		turbine pumps
	passageways		turboprop engines		turbine wheels
	streets		T-34 engine		turbogenerators
	transfer tunnels		T-38 engine		turboshafts
	tunnel cathodes		<u>T-53</u> engine	turboch	argere
	tunnel diodes		T-55 engine	USE	superchargers
	wind tunnels		T-56 engine T-63 engine	002	turbocompressors
			T-63 engine		·
Tupolev	v aircraft		T-74 engine		ompressors
GS	Tupolev aircraft		T-76 engine	UF	axial compressors
	. TU-104 aircraft		T-78 engine		axial flow compressors
	. TU-124 aircraft . TU-134 aircraft		turboramjet engines		multistage compressors
	. TU-154 aircraft	RT	aircraft engines	GS	turbochargers compressors
	. TU-204 aircraft		automobile engines	do	. turbocompressors
RT ∝	∘ aircraft		convergent nozzles qas bearings		turbomachinery
			integral rocket ramjets		turbocompressors
turbidit	v		torpedo engines	RT	centrifugal compressors
GS	electromagnetic properties		1 0		centrifugal pumps
	. optical properties	turbine	exhaust nozzles		compressor blades compressor rotors
	turbidity	GS	exhaust nozzles		rotating stalls
RT	absorptance		. turbine exhaust nozzles		rotors
	clarity	RT	conical nozzles		superchargers
	haze		convergent-divergent nozzles		supersonic compressors
	light transmission opacity				transonic compressors
	optical density		instruments flowmeters		turbine pumps
0<	properties		instruments		turbofans
	solubility		turbomachinery	turbooo	nyortoro
	transparence		<b>,</b>		nverters turbogenerators
		turbine	pumps	JUL	2090110141013
turbine	blades	UF		turboele	ectric conversion
DEF	The blades of a turbine wheel.	GS	pumps		turbogenerators
GS	turbomachine blades		. axial flow pumps		
	. turbine blades		turbine pumps		n aircraft
HT∝	blades		turbing numbs	GS	jet aircraft
	compressor blades engine parts	RT	. turbine pumps centrifugal pumps		. turbofan aircraft A-7 aircraft
	fan blades	111	fuel pumps		A-7 aircraft
	rotor blades (turbomachinery)		jet pumps		. Boeing 707 aircraft
	rotor stator interactions		preburners		Boeing 717 aircraft
	stator blades		turbines		Boeing 720 aircraft

## turbofan engines

Boeing 727 aircraft	tion of the compressor or turbine blades outside	J-93 engine
Boeing 733 aircraft	the inner engine cases.	RA-28 engine
Boeing 737 aircraft	GS turbomachinery	turbofan engines
Boeing 757 aircraft	. turbofans	Bristol-Siddeley BS 53 engine
Boeing 767 aircraft	RT ducted fans	CF-700 engine
C-141 aircraft	∞ fans	convertible fan-shaft engines
CL-600 challenger aircraft	lift fans	J-97 engine
Concorde aircraft	turbocompressors	S
CV-990 aircraft	turbofan engines	TF-30 engine
DC 8 aircraft		TF-34 engine
DH 121 aircraft	turbogenerators	TF-41 engine
DO-31 aircraft	UF thermal power	turboprop engines
F-5 aircraft	turboconverters	T-34 engine
F-28 transport aircraft	turboelectric conversion	T-38 engine
F-111 aircraft	GS electric generators	T-53 engine
IL-62 aircraft	rotating generators	T-55 engine
Mystere 20 aircraft	turbogenerators	T-56 engine
P-1127 aircraft	ASTEC solar turboelectric	T-63 engine T-64 engine
P-1154 aircraft	generator	T-74 engine
Saab 37 aircraft	turbomachinery	T-76 engine
Saab 105 aircraft	. turbogenerators	T-78 engine
SE-210 aircraft	ASTEC solar turboelectric	turboramjet engines
TU-134 aircraft	generator	. internal combustion engines
TU-144 aircraft	RT AC generators	gas turbine engines
RT ∞ aircraft	∞ conversion	jet engines
C-135 aircraft	∞ electric power	turbojet engines
∞ low wing aircraft	electrical engineering	Bristol-Siddeley Olympus 593
passenger aircraft	gas turbine engines	engine
transport aircraft	gas turbines	Bristol-Siddeley Viper engine
turboprop aircraft	∞ generators	ducted fan engines
	geothermal energy conversion	J-33 engine
turbofan engines	geothermal energy extraction geothermal energy utilization	J-34 engine
GS engines	hydroelectric power stations	J-47 engine
. air breathing engines	·	J-52 engine
gas turbine engines	hydroelectricity SNAP	J-57 engine
jet engines	SNAP 1	J-58 engine
turbojet engines	SNAP 2	J-65 engine
turbofan engines	SNAP 8	J-69-T-25 engine
Bristol-Siddeley BS 53 engine	solar generators	J-71 engine
CF-700 engine	space power reactors	J-73 engine
convertible fan-shaft engines	space power unit reactors	J-75 engine
J-97 engine	steam turbines	J-79 engine
TF-30 engine	turbines	J-85 engine
TF-34 engine	wind turbines	J-93 engine
TF-41 engine	wind turbines	RA-28 engine
	turboiet aircraft	turbofan engines
. internal combustion engines	turbojet aircraft USE let aircraft	turbofan engines Bristol-Siddeley BS 53 engine
. internal combustion engines gas turbine engines	turbojet aircraft USE <b>jet aircraft</b>	
<ul><li>internal combustion engines</li><li>gas turbine engines</li><li>jet engines</li></ul>		Bristol-Siddeley BS 53 engine
<ul><li>internal combustion engines</li><li>gas turbine engines</li><li>jet engines</li><li>turbojet engines</li></ul>	USÉ <b>jet aircraft</b>	Bristol-Siddeley BS 53 engine CF-700 engine
. internal combustion engines gas turbine engines jet engines turbojet engines turbofan engines	USÉ jet aircraft turbojet engine control	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines
. internal combustion engines . gas turbine engines jet engines turbojet engines turbofan engines Bristol-Siddeley BS 53 engine	USE jet aircraft  turbojet engine control  GS engine control	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine
. internal combustion engines gas turbine engines jet engines turbojet engines turbofan engines	USÉ jet aircraft  turbojet engine control  GS engine control  . turbojet engine control	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine
. internal combustion engines gas turbine engines jet engines turbojet engines turbofan engines Bristol-Siddeley BS 53 engine CF-700 engine	USÉ jet aircraft  turbojet engine control GS engine control . turbojet engine control RT aircraft control	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-34 engine TF-41 engine turboprop engines
internal combustion engines gas turbine engines jet engines turbojet engines turbofan engines Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines	USÉ jet aircraft  turbojet engine control GS engine control . turbojet engine control RT aircraft control automatic control	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-34 engine TF-44 engine
internal combustion engines . gas turbine engines . jet engines . turbojet engines . turbofan engines . Bristol-Siddeley BS 53 engine . CF-700 engine . convertible fan-shaft engines . J-97 engine	USE jet aircraft  turbojet engine control GS engine control . turbojet engine control RT aircraft control automatic control ∞ control	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-34 engine TF-41 engine turboprop engines T-34 engine T-38 engine
internal combustion engines gas turbine engines jet engines turbojet engines turbofan engines Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine	USÉ jet aircraft  turbojet engine control GS engine control . turbojet engine control RT aircraft control automatic control ∞ control flight control	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-30 engine TF-34 engine TF-41 engine turboprop engines T-34 engine T-38 engine T-38 engine T-53 engine
internal combustion engines gas turbine engines jet engines turbojet engines turbofan engines Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-34 engine	USÉ jet aircraft  turbojet engine control GS engine control	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-34 engine TF-41 engine turboprop engines T-34 engine T-38 engine T-38 engine T-55 engine T-55 engine
internal combustion engines gas turbine engines jet engines turbojet engines turbofan engines Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-34 engine TF-41 engine	USÉ jet aircraft  turbojet engine control GS engine control . turbojet engine control RT aircraft control automatic control  ∞ control flight control fuel control remote control	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-34 engine TF-41 engine turboprop engines T-34 engine T-38 engine T-38 engine T-55 engine T-55 engine T-56 engine
internal combustion engines gas turbine engines jet engines turbojet engines turbofan engines turbofan engines Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-34 engine TF-41 engine turbine engines	USÉ jet aircraft  turbojet engine control GS engine control . turbojet engine control BT aircraft control automatic control  ∞ control flight control fuel control remote control servocontrol thrust control	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-34 engine TF-41 engine turboprop engines T-34 engine T-38 engine T-38 engine T-55 engine T-56 engine T-56 engine
internal combustion engines . gas turbine engines . jet engines . turbojet engines . turbofan engines . Bristol-Siddeley BS 53 engine . CF-700 engine . convertible fan-shaft engines . J-97 engine . TF-30 engine . TF-34 engine . TF-41 engine . turbine engines . gas turbine engines	USÉ jet aircraft  turbojet engine control GS engine control . turbojet engine control BT aircraft control automatic control  ∞ control flight control fuel control remote control servocontrol thrust control  turbojet engines	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-34 engine TF-41 engine turboprop engines T-34 engine T-38 engine T-53 engine T-55 engine T-56 engine T-63 engine T-63 engine T-63 engine T-64 engine
internal combustion engines gas turbine engines jet engines turbojet engines turbofan engines turbofan engines  Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-34 engine TF-41 engine turbine engines jet engines turbojet engines turbojet engines turbojan engines turbojet engines turbofan engines	USÉ jet aircraft  turbojet engine control GS engine control . turbojet engine control RT aircraft control automatic control  © control flight control fuel control remote control servocontrol thrust control  turbojet engines DEF Jet engines incorporating a turbine	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-30 engine TF-34 engine TF-41 engine turboprop engines T-34 engine T-38 engine T-53 engine T-55 engine T-56 engine T-66 engine T-64 engine T-64 engine T-74 engine
internal combustion engines . gas turbine engines . jet engines . turbojet engines . turbofan engines . Bristol-Siddeley BS 53 engine . CF-700 engine . convertible fan-shaft engines . J-97 engine . TF-30 engine . TF-34 engine . TF-41 engine . turbine engines . gas turbine engines . jet engines . turbojet engines . turbofan engines . Bristol-Siddeley BS 53 engine	USÉ jet aircraft  turbojet engine control GS engine control . turbojet engine control BT aircraft control automatic control ∞ control flight control fuel control remote control servocontrol thrust control thrust control  turbojet engines  DEF Jet engines incorporating a turbine driven air compressor to take in and compress	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-34 engine 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 T-74 engine T-74 engine T-75 engine
internal combustion engines . gas turbine engines . jet engines . turbojet engines . turbofan engines . Bristol-Siddeley BS 53 engine . CF-700 engine . convertible fan-shaft engines . J-97 engine . TF-30 engine . TF-34 engine . TF-41 engine . turbine engines . gas turbine engines . jet engines . turbojet engines . turbojet engines . Bristol-Siddeley BS 53 engine . CF-700 engine	USÉ jet aircraft  turbojet engine control GS engine control . turbojet engine control BT aircraft control automatic control flight control flught control remote control servocontrol thrust control turbojet engines DEF Jet engines incorporating a turbine driven air compressor to take in and compress the air for the combustion of fuel (or for heating	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-34 engine TF-41 engine turboprop engines T-34 engine T-38 engine T-55 engine T-56 engine T-64 engine T-64 engine T-74 engine
internal combustion engines . gas turbine engines jet engines turbojet engines turbofan engines turbofan engines Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-30 engine TF-41 engine . turbine engines gas turbine engines jet engines jet engines turbojet engines turbofan engines Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines	USÉ jet aircraft  turbojet engine control GS engine control . turbojet engine control BT aircraft control automatic control ∞ control flight control fuel control remote control servocontrol thrust control  turbojet engines DEF Jet engines incorporating a turbine driven air compressor to take in and compress the air for the combustion of fuel (or for heating by a nuclear reactor), the gases of combustion	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-34 engine TF-41 engine turboprop engines T-34 engine T-38 engine T-38 engine T-55 engine T-56 engine T-64 engine T-64 engine T-74 engine T-74 engine T-75 engine T-74 engine T-75 engine T-74 engine T-75 engine T-75 engine T-76 engine T-78 engine T-78 engine T-78 engine
internal combustion engines gas turbine engines let engines let engines let turbojet engines let turbojet engines let turbofan engines let turbofan engines let convertible fan-shaft engines let turbojet engines let engines let engines let turbojet engines let convertible fan-shaft engines let convertible fan-shaft engines let convertible fan-shaft engines	USÉ jet aircraft  turbojet engine control GS engine control . turbojet engine control BT aircraft control automatic control ∞ control flight control fuel control remote control servocontrol thrust control  turbojet engines  DEF Jet engines incorporating a turbine driven air compressor to take in and compress the air for the combustion of fuel (or for heating by a nuclear reactor), the gases of combustion (or the heated air) being used both to rotate the	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-30 engine TF-34 engine TF-41 engine turboprop engines T-34 engine T-38 engine T-38 engine T-55 engine T-56 engine T-63 engine T-64 engine T-74 engine T-74 engine T-74 engine T-78 engine T-79 engine Turboramjet engines
internal combustion engines . gas turbine engines . jet engines . turbojet engines . turbofan engines . Bristol-Siddeley BS 53 engine . CF-700 engine . convertible fan-shaft engines . J-97 engine . TF-30 engine . TF-34 engine . TF-41 engine . turbine engines . jet engines . jet engines . turbojet engines . turbofan engines . Turbofan engines . Turbofan engines . Turbofan engines . Seristol-Siddeley BS 53 engine . CF-700 engine . convertible fan-shaft engines . J-97 engine . TF-30 engine	turbojet engine control GS engine control . turbojet engine control . turbojet engine control BT aircraft control automatic control  control flight control fuel control remote control servocontrol thrust control  turbojet engines  DEF Jet engines incorporating a turbine driven air compressor to take in and compress the air for the combustion of fuel (or for heating by a nuclear reactor), the gases of combustion (or the heated air) being used both to rotate the turbine and create a thrust producing jet.	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-30 engine TF-34 engine TF-41 engine turboprop engines T-34 engine T-38 engine T-38 engine T-55 engine T-55 engine T-63 engine T-64 engine T-64 engine T-74 engine T-76 engine T-76 engine T-78 engine
internal combustion engines . gas turbine engines . jet engines . turbojet engines . turbofan engines . Bristol-Siddeley BS 53 engine . CF-700 engine . convertible fan-shaft engines . J-97 engine . TF-30 engine . TF-34 engine . TF-41 engine . turbine engines . jet engines . jet engines . turbojet engines . Bristol-Siddeley BS 53 engine . CF-700 engine . convertible fan-shaft engines . J-97 engine . J-97 engine . TF-30 engine	turbojet engine control GS engine control . turbojet engine control . turbojet engine control BT aircraft control automatic control ∞ control flight control fuel control remote control servocontrol thrust control thrust control  turbojet engines  DEF Jet engines incorporating a turbine driven air compressor to take in and compress the air for the combustion of fuel (or for heating by a nuclear reactor), the gases of combustion (or the heated air) being used both to rotate the turbine and create a thrust producing jet. GS engines	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-34 engine TF-41 engine turboprop engines T-34 engine T-38 engine T-55 engine T-56 engine T-64 engine T-74 engine T-74 engine T-75 engine T-75 engine T-75 engine T-76 engine T-78 engine T-79 engines Turboramjet engines Utrbine engines Gas turbine engines
internal combustion engines . gas turbine engines . jet engines . turbojet engines . turbofan engines . turbofan engines . Bristol-Siddeley BS 53 engine . CF-700 engine . convertible fan-shaft engines . J-97 engine . TF-30 engine . TF-34 engine . TF-41 engine . turbine engines . gas turbine engines . jet engines . turbojet engines . turbofan engines . Bristol-Siddeley BS 53 engine . CF-700 engine . convertible fan-shaft engines . J-97 engine . TF-30 engine . TF-34 engine . TF-34 engine . TF-34 engine	turbojet engine control GS engine control . turbojet engine control . turbojet engine control BT aircraft control automatic control ∞ control flight control fuel control remote control servocontrol thrust control  turbojet engines  DEF Jet engines incorporating a turbine driven air compressor to take in and compress the air for the combustion of fuel (or for heating by a nuclear reactor), the gases of combustion (or the heated air) being used both to rotate the turbine and create a thrust producing jet. GS engines . air breathing engines	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-30 engine TF-34 engine TF-41 engine turboprop engines T-34 engine T-38 engine T-38 engine T-55 engine T-56 engine T-64 engine T-64 engine T-76 engine T-78 engine T-79 engine T-79 engine Turboramjet engines Uturbine engines Jet engines Jet engines Jet engines Jet engines
internal combustion engines . gas turbine engines jet engines turbojet engines turbofan engines turbofan engines Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-41 engine . turbine engines gas turbine engines jet engines turbofan engines turbofan engines Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine J-97 engine TF-30 engine TF-34 engine TF-34 engine TF-41 engine BT B-52 aircraft	turbojet engine control GS engine control . turbojet engine control . turbojet engine control BT aircraft control automatic control ∞ control flight control fuel control remote control servocontrol thrust control  turbojet engines  DEF Jet engines incorporating a turbine driven air compressor to take in and compress the air for the combustion of fuel (or for heating by a nuclear reactor), the gases of combustion (or the heated air) being used both to rotate the turbine and create a thrust producing jet. GS engines . air breathing engines . gas turbine engines	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-30 engine TF-34 engine TF-41 engine turboprop engines T-34 engine T-38 engine T-38 engine T-55 engine T-56 engine T-63 engine T-64 engine T-64 engine T-64 engine T-74 engine T-74 engine T-74 engine T-74 engine T-78 engine Turboramjet engines turbine engines turbine engines Jet engines Bristol-Siddeley Olympus 593
internal combustion engines . gas turbine engines jet engines turbojet engines turbofan engines turbofan engines Bristol-Siddeley BS 53 engine CF-700 engine	turbojet engine control GS engine control . turbojet engine control . turbojet engine control BT aircraft control automatic control ∞ control flight control fleel control remote control servocontrol thrust control thrust control  turbojet engines  DEF Jet engines incorporating a turbine driven air compressor to take in and compress the air for the combustion of fuel (or for heating by a nuclear reactor), the gases of combustion (or the heated air) being used both to rotate the turbine and create a thrust producing jet. GS engines . air breathing engines . gas turbine engines jet engines	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-30 engine TF-34 engine TF-41 engine turboprop engines T-34 engine T-38 engine T-38 engine T-55 engine T-56 engine T-63 engine T-64 engine T-74 engine T-74 engine T-74 engine T-78 engine T-78 engine T-78 engine T-78 engine T-79 engines Turboramjet engines Turboramjet engines Turboramjet engines Tet engines
internal combustion engines . gas turbine engines . jet engines . turbojet engines . turbofan engines . Bristol-Siddeley BS 53 engine . CF-700 engine . convertible fan-shaft engines . J-97 engine . TF-30 engine . TF-34 engine . TF-41 engine . turbine engines . jet engines . jet engines . turbojet engines . Bristol-Siddeley BS 53 engine . CF-700 engine . CF-700 engine . CF-700 engine . J-97 engine . J-97 engine . TF-34 engine . TF-30 engine . TF-30 engine . TF-30 engine . TF-30 engine . TF-31 engine	turbojet engine control GS engine control . turbojet engine control . turbojet engine control BT aircraft control automatic control ∞ control flight control flight control remote control servocontrol thrust control servocontrol thrust control  turbojet engines  DEF Jet engines incorporating a turbine driven air compressor to take in and compress the air for the combustion of fuel (or for heating by a nuclear reactor), the gases of combustion (or the heated air) being used both to rotate the turbine and create a thrust producing jet. GS engines . air breathing engines jet engines jet engines turbojet engines	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-30 engine TF-34 engine TF-41 engine T-38 engine T-38 engine T-55 engine T-55 engine T-56 engine T-64 engine T-764 engine T-774 engine T-78 engines Turboramjet engines T-78 engines Turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine
internal combustion engines . gas turbine engines jet engines turbojet engines turbofan engines turbofan engines Bristol-Siddeley BS 53 engine CF-700 engine	turbojet engine control GS engine control . turbojet engine control . turbojet engine control BT aircraft control automatic control ∞ control flight control flight control remote control servocontrol thrust control servocontrol thrust control  turbojet engines  DEF Jet engines incorporating a turbine driven air compressor to take in and compress the air for the combustion of fuel (or for heating by a nuclear reactor), the gases of combustion (or the heated air) being used both to rotate the turbine and create a thrust producing jet. GS engines . air breathing engines . gas turbine engines jet engines turbojet engines turbojet engines Bristol-Siddeley Olympus 593	Bristol-Siddeley BS 53 engine  CF-700 engine  convertible fan-shaft engines  J-97 engine  TF-30 engine  TF-34 engine  TF-41 engine  T-34 engine  T-38 engine  T-38 engine  T-55 engine  T-56 engine  T-64 engine  T-76 engine  T-76 engine  T-78 engine  Turboramjet engines  turbine engines  gas turbine engines  jet engines  Bristol-Siddeley Olympus 593  engine  Bristol-Siddeley Viper engine  ducted fan engines
internal combustion engines . gas turbine engines jet engines turbojet engines turbofan engines turbofan engines Sristol-Siddeley BS 53 engine	turbojet engine control GS engine control . turbojet engine control . turbojet engine control BT aircraft control automatic control ∞ control flight control flight control remote control servocontrol thrust control  turbojet engines  DEF Jet engines incorporating a turbine driven air compressor to take in and compress the air for the combustion of fuel (or for heating by a nuclear reactor), the gases of combustion (or the heated air) being used both to rotate the turbine and create a thrust producing jet. GS engines . air breathing engines . gas turbine engines jet engines ! turbojet engines turbojet engines Bristol-Siddeley Olympus 593 engine	Bristol-Siddeley BS 53 engine  CF-700 engine  convertible fan-shaft engines  J-97 engine  TF-30 engine  TF-30 engine  TF-34 engine  TF-41 engine  T-34 engine  T-38 engine  T-38 engine  T-55 engine  T-56 engine  T-64 engine  T-64 engine  T-74 engine  T-74 engine  T-78 engine  T-78 engine  T-78 engine  T-79 engine  T-78 engine  Bristol-Siddeley Olympus 593 engine  Bristol-Siddeley Viper engine  ducted fan engines  J-33 engine
internal combustion engines . gas turbine engines jet engines turbojet engines turbofan engines turbofan engines Bristol-Siddeley BS 53 engine	USÉ jet aircraft  turbojet engine control GS engine control . turbojet engine control BT aircraft control automatic control ∞ control flight control fluel control remote control servocontrol thrust control  turbojet engines  DEF Jet engines incorporating a turbine driven air compressor to take in and compress the air for the combustion of fuel (or for heating by a nuclear reactor), the gases of combustion (or the heated air) being used both to rotate the turbine and create a thrust producing jet. GS engines . air breathing engines . gas turbine engines . jet engines jet engines turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-30 engine TF-34 engine TF-41 engine turboprop engines T-34 engine T-38 engine T-38 engine T-55 engine T-56 engine T-63 engine T-64 engine T-74 engine T-74 engine T-78 engines Turboramjet engines Turboramjet engines Turboramjet engines Turbojet engines
internal combustion engines . gas turbine engines jet engines turbojet engines turbofan engines turbofan engines Eristol-Siddeley BS 53 engine	turbojet engine control GS engine control . turbojet engine control . turbojet engine control BT aircraft control automatic control ∞ control flight control flight control remote control servocontrol thrust control  control servocontrol thrust control servocontrol thrust control servocontrol thrust control servocontrol servocontro	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-30 engine TF-34 engine TF-41 engine T-41 engine T-38 engine T-38 engine T-55 engine T-55 engine T-56 engine T-63 engine T-74 engine T-74 engine T-74 engine T-78 engines T-78 engines T-79 engine
internal combustion engines . gas turbine engines jet engines turbojet engines turbofan engines turbofan engines Bristol-Siddeley BS 53 engine CF-700 engine	turbojet engine control GS engine control  turbojet engine control  turbojet engine control  aircraft control automatic control  control flight control flight control remote control servocontrol thrust control servocontrol thrust control  turbojet engines  DEF Jet engines incorporating a turbine driven air compressor to take in and compress the air for the combustion of fuel (or for heating by a nuclear reactor), the gases of combustion (or the heated air) being used both to rotate the turbine and create a thrust producing jet. GS engines  air breathing engines  gas turbine engines  igt engines  turbojet engines  turbojet engines  turbojet engines  services   Bristol-Siddeley BS 53 engine  CF-700 engine  convertible fan-shaft engines  J-97 engine  TF-30 engine  TF-30 engine  TF-34 engine  TF-41 engine  T-34 engine  T-38 engine  T-53 engine  T-55 engine  T-56 engine  T-64 engine  T-76 engine  T-78 engine  T-79 engine  J-47 engine  J-34 engine  J-37 engine  J-47 engine  J-52 engine	
internal combustion engines gas turbine engines let engines let engines let turbojet engines let turbofan engines let turbofan engines let turbofan engines let convertible fan-shaft engines let refine engine let turbine engines let engine	turbojet engine control GS engine control . turbojet engine control . turbojet engine control BT aircraft control automatic control  control flight control flight control remote control servocontrol thrust control  turbojet engines  DEF Jet engines incorporating a turbine driven air compressor to take in and compress the air for the combustion of fuel (or for heating by a nuclear reactor), the gases of combustion (or the heated air) being used both to rotate the turbine and create a thrust producing jet. GS engines . air breathing engines . jet engines . jet engines jet engines turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine ducted fan engines J-33 engine J-34 engine	Bristol-Siddeley BS 53 engine  CF-700 engine  convertible fan-shaft engines  J-97 engine  TF-30 engine  TF-30 engine  TF-34 engine  TF-41 engine  turboprop engines  T-34 engine  T-38 engine  T-53 engine  T-55 engine  T-56 engine  T-64 engine  T-76 engine  T-78 engine  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
internal combustion engines . gas turbine engines jet engines turbojet engines turbofan engines turbojet engines	turbojet engine control GS engine control  turbojet engine control  turbojet engine control  aircraft control automatic control  control flight control flight control remote control servocontrol thrust control servocontrol thrust control  turbojet engines  DEF Jet engines incorporating a turbine driven air compressor to take in and compress the air for the combustion of fuel (or for heating by a nuclear reactor), the gases of combustion (or the heated air) being used both to rotate the turbine and create a thrust producing jet. GS engines  air breathing engines  gas turbine engines  igt engines  turbojet engines  turbojet engines  turbojet engines  services   Bristol-Siddeley BS 53 engine  CF-700 engine  convertible fan-shaft engines  J-97 engine  TF-30 engine  TF-30 engine  TF-34 engine  TF-41 engine  T-34 engine  T-38 engine  T-53 engine  T-55 engine  T-56 engine  T-64 engine  T-76 engine  T-78 engine  T-79 engine  J-47 engine  J-34 engine  J-37 engine  J-47 engine  J-52 engine	
internal combustion engines . gas turbine engines . jet engines . turbojet engines . turbojet engines . Turbofan engines . Bristol-Siddeley BS 53 engine . CF-700 engine . COP-700 engine . COP-700 engine . COP-700 engine . TF-30 engine . TF-34 engine . TF-34 engine . TF-34 engine . TF-35 engine . TE-36 engines . Jet engines . Jet engines . Iurbojet engines . Eristol-Siddeley BS 53 engine . CF-700 engine . COP-700 engine . COP-700 engine . TF-30 engine . TF-31 engine .	turbojet engine control GS engine control . turbojet engine control . turbojet engine control BT aircraft control automatic control ∞ control flight control flight control remote control servocontrol thrust control  turbojet engines  DEF Jet engines incorporating a turbine driven air compressor to take in and compress the air for the combustion of fuel (or for heating by a nuclear reactor), the gases of combustion (or the heated air) being used both to rotate the turbine and create a thrust producing jet. GS engines . air breathing engines . jet engines . jet engines jet engines turbojet engines Bristol-Siddeley Olympus 593 engine	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-30 engine TF-34 engine TF-34 engine TF-41 engine turboprop engines T-38 engine T-38 engine T-55 engine T-56 engine T-63 engine T-64 engine T-74 engine T-74 engine T-74 engine T-78 engine T-79 engine
internal combustion engines . gas turbine engines jet engines turbojet engines turbojet engines turbofan engines Bristol-Siddeley BS 53 engine	turbojet engine control GS engine control . turbojet engine control . turbojet engine control BT aircraft control automatic control ∞ control flight control flight control remote control servocontrol thrust control servocontrol thrust control  turbojet engines  DEF Jet engines incorporating a turbine driven air compressor to take in and compress the air for the combustion of fuel (or for heating by a nuclear reactor), the gases of combustion (or the heated air) being used both to rotate the turbine and create a thrust producing jet. GS engines . air breathing engines . jet engines . jet engines . istristol-Siddeley Olympus 593 engine . Bristol-Siddeley Viper engine . ducted fan engines . J-33 engine . J-34 engine . J-47 engine . J-52 engine	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-30 engine TF-34 engine TF-41 engine TF-41 engine T-38 engine T-38 engine T-55 engine T-55 engine T-56 engine T-63 engine T-74 engine T-74 engine T-78 engine T-79 engine T-79 engine T-79 engines T-79 engine
internal combustion engines gas turbine engines let engines let engines let turbojet engines let turbofan engines let turbofan engines let engines let turbofan engines let convertible fan-shaft engines let convertible fan-shaft engines let convertible fan-shaft engines let convertible fan-shaft engines let turbine engine let turbine engines let engine  let engine let engines	turbojet engine control GS engine control  turbojet engine control  turbojet engine control  aircraft control automatic control  control flight control flight control remote control servocontrol thrust control servocontrol thrust control servocontrol thrust control servocontrol thrust control  turbojet engines  DEF Jet engines incorporating a turbine driven air compressor to take in and compress the air for the combustion of fuel (or for heating by a nuclear reactor), the gases of combustion (or the heated air) being used both to rotate the turbine and create a thrust producing jet. GS engines  air breathing engines  pet engines  turbojet engines  turbojet engines  turbojet engines  turbojet engines  Jet engines  ulted fan engine	Bristol-Siddeley BS 53 engine  CF-700 engine  convertible fan-shaft engines  J-97 engine  TF-30 engine  TF-30 engine  TF-34 engine  TF-41 engine  T-34 engine  T-38 engine  T-55 engine  T-56 engine  T-64 engine  T-76 engine  T-78 engine  T-79 engine  T-79 engines  Turbojet engines  Jet engines  Turbojet engines  Jet engines  Turbojet engine  Turbojet engine  Turbojet engine  Turbojet engine  Turbojet engine
internal combustion engines gas turbine engines let engines let engines let turbojet engines let turbofan engines let turbofan engines let turbofan engines let convertible fan-shaft engines let convertible fan-shaft engines let convertible fan-shaft engines let convertible fan-shaft engines let retire engine let retire engines let retire engines let engines let engines let engines let engines let engine let engines let engine  let en	turbojet engine control GS engine control  turbojet engine control  turbojet engine control  ATT aircraft control automatic control  control flight control flight control remote control servocontrol thrust control servocontrol thrust control  turbojet engines  DEF Jet engines incorporating a turbine driven air compressor to take in and compress the air for the combustion of fuel (or for heating by a nuclear reactor), the gases of combustion (or the heated air) being used both to rotate the turbine and create a thrust producing jet. GS engines  air breathing engines  gas turbine engines  ight 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-58 engine	Bristol-Siddeley BS 53 engine  CF-700 engine  convertible fan-shaft engines  J-97 engine  TF-30 engine  TF-34 engine  TF-41 engine  turboprop engines  T-34 engine  T-38 engine  T-55 engine  T-56 engine  T-64 engine  T-76 engine  T-78 engine  J-78 engine  T-79 engine  T-79 engine  T-79 engine  J-79 engines  Jet engines  Jet engines  Bristol-Siddeley Olympus 593  engine  Bristol-Siddeley Viper engine  ducted fan engines  J-34 engine  J-37 engine  J-52 engine  J-57 engine  J-58 engine  J-69-T-25 engine  J-69-T-25 engine
internal combustion engines gas turbine engines let engines let engines let turbojet engines let turbofan engines let turbofan engines let engines let turbofan engines let convertible fan-shaft engines let convertible fan-shaft engines let convertible fan-shaft engines let convertible fan-shaft engines let turbine engine let turbine engines let engine  let engine let engines	turbojet engine control GS engine control . turbojet engine control . turbojet engine control  BT aircraft control automatic control  control flight control flight control remote control servocontrol thrust control  turbojet engines  DEF Jet engines incorporating a turbine driven air compressor to take in and compress the air for the combustion of fuel (or for heating by a nuclear reactor), the gases of combustion (or the heated air) being used both to rotate the turbine and create a thrust producing jet. GS engines . air breathing engines . jet engines . jet engines . Itrbojet engines . Bristol-Siddeley Olympus 593 engine . Bristol-Siddeley Viper engine . J-34 engine . J-52 engine . J-57 engine . J-57 engine . J-57 engine . J-58 engine . J-65 engine	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-30 engine TF-34 engine TF-41 engine turboprop engines T-34 engine T-38 engine T-38 engine T-55 engine T-56 engine T-64 engine T-64 engine T-74 engine T-74 engine T-74 engine T-78 engine T-79 engine T-79 engine T-79 engines T-79 engines T-79 engines T-79 engine
internal combustion engines gas turbine engines let engines let engines let turbojet engines let turbofan engines let turbofan engines let turbofan engines let convertible fan-shaft engines let convertible fan-shaft engines let convertible fan-shaft engines let convertible fan-shaft engines let retire engine let retire engines let retire engines let engines let engines let engines let engines let engine let engines let engine  let en	turbojet engine control GS engine control  turbojet engine control  turbojet engine control  RT aircraft control automatic control  control flight control flight control fuel control remote control servocontrol thrust control  turbojet engines  DEF Jet engines incorporating a turbine driven air compressor to take in and compress the air for the combustion of fuel (or for heating by a nuclear reactor), the gases of combustion (or the heated air) being used both to rotate the turbine and create a thrust producing jet. GS engines  air breathing engines  pet engines  turbojet engines  pet engines  services  services  services  stream transcription  do reate a thrust producing jet.  GS engines  services  servic	Bristol-Siddeley BS 53 engine  CF-700 engine  convertible fan-shaft engines  J-97 engine  TF-30 engine  TF-30 engine  TF-34 engine  TF-41 engine  turboprop engines  T-38 engine  T-53 engine  T-56 engine  T-63 engine  T-64 engine  T-74 engine  T-74 engine  T-74 engine  T-78 engine  T-78 engine  Bristol-Siddeley Olympus 593 engine  Bristol-Siddeley Viper engine  J-33 engine  J-33 engine  J-34 engine  J-57 engine  J-58 engine  J-57 engine
internal combustion engines gas turbine engines let engines let engines let turbojet engines let turbofan engines let turbofan engines let turbofan engines let convertible fan-shaft engines let convertible fan-shaft engines let convertible fan-shaft engines let convertible fan-shaft engines let retire engine let retire engines let retire engines let engines let engines let engines let engines let engine let engines let engine  let en	turbojet engine control GS engine control  turbojet engine control  turbojet engine control  aircraft control automatic control  control flight control flight control remote control servocontrol thrust control servocontrol thrust control servocontrol thrust control servocontrol thrust control  turbojet engines  DEF Jet engines incorporating a turbine driven air compressor to take in and compress the air for the combustion of fuel (or for heating by a nuclear reactor), the gases of combustion (or the heated air) being used both to rotate the turbine and create a thrust producing jet.  GS engines  . ipt engines . jet engines . jet engines . Jet engines . Iturbojet engines . Bristol-Siddeley Olympus 593 engine . J-33 engine . J-47 engine . J-52 engine . J-57 engine . J-58 engine . J-69-T-25 engine . J-69-T-25 engine . J-71 engine	Bristol-Siddeley BS 53 engine CF-700 engine convertible fan-shaft engines J-97 engine TF-30 engine TF-30 engine TF-34 engine TF-41 engine T-38 engine T-38 engine T-55 engine T-56 engine T-56 engine T-76 engine T-76 engine T-78 engine T-79 engines T-79 engines T-79 engines T-79 engine T-34 engine T-34 engine T-34 engine T-35 engine T-36 engine T-376 engine T-379 engine T-379 engine T-379 engine T-379 engine T-379 engine T-379 engine
internal combustion engines gas turbine engines let engines let engines let turbojet engines let turbofan engines let turbofan engines let engines let engines let engines let engines let engine let engine let engine let engine let engine let engine let engines let engine let engine let engine let engine let engine let engines let engine  let engine let engine let engine let engines let engine let engines let engine let engines let engine let e	turbojet engine control GS engine control turbojet engine control  Aircraft control automatic control ocontrol flight control flight control fuel control servocontrol thrust control  turbojet engines  DEF Jet engines incorporating a turbine driven air compressor to take in and compress the air for the combustion of fuel (or for heating by a nuclear reactor), the gases of combustion (or the heated air) being used both to rotate the turbine and create a thrust producing jet. GS engines air breathing engines . gas turbine engines . jet engines . jet engines . turbojet engines . Bristol-Siddeley Olympus 593 engine . J-33 engine . J-47 engine . J-52 engine . J-52 engine . J-55 engine . J-69-T-25 engine . J-69-T-25 engine . J-71 engine . J-73 engine	Bristol-Siddeley BS 53 engine  CF-700 engine  convertible fan-shaft engines  J-97 engine  TF-30 engine  TF-30 engine  TF-34 engine  TF-41 engine  T-38 engine  T-38 engine  T-55 engine  T-56 engine  T-64 engine  T-76 engine  T-78 engine  T-79 engines  Jet engines  Jet engines  Jet engines  Jet engines  Jet engine  J-34 engine  J-32 engine  J-35 engine  J-52 engine  J-52 engine  J-52 engine  J-53 engine  J-59 engine  J-69-T-25 engine  J-79 engine
internal combustion engines gas turbine engines let engines turbojet engines turbofan engines turbofan engines turbofan engines turbofan engines firstol-Siddeley BS 53 engine convertible fan-shaft engines firstol-sideley BS 53 engine firstol-sideley BS 53 engine firstol-sideley BS 53 engine firstol-sideley BS 53 engine turbine engines gas turbine engines let engines firstol-siddeley BS 53 engine firstol-siddeley BS 53 engi	turbojet engine control GS engine control	Bristol-Siddeley BS 53 engine  CF-700 engine  convertible fan-shaft engines  J-97 engine  TF-30 engine  TF-30 engine  TF-34 engine  TF-41 engine  turboprop engines  T-34 engine  T-38 engine  T-53 engine  T-56 engine  T-64 engine  T-76 engine  T-78 engine  T-78 engine  T-78 engine  T-78 engine  Bristol-Siddeley Olympus 593 engine  Bristol-Siddeley Viper engine  J-33 engine  J-34 engine  J-34 engine  J-47 engine  J-52 engine  J-52 engine  J-53 engine  J-55 engine  J-57 engine  J-65 - engine  J-69-T-25 engine  J-73 engine  J-73 engine  J-73 engine  J-75 engine  J-75 engine  J-75 engine  J-79 engine  J-79 engine  J-79 engine  J-79 engine  J-79 engine  J-85 engine

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	Bristol-Siddeley BS 53 engine	ATR-72 aircraft	XC-142 aircraft
	CF-700 engine	Breguet 941 aircraft	
	convertible fan-shaft engines	Breguet 1150 aircraft	turbopumps
	J-97 engine	C-2 aircraft	USE turbine pumps
	TF-30 engine	C-130 aircraft	
	TF-34 engine	C-133 aircraft	turboramjet engines
	TF-41 engine		GS engines
	turboprop engines	C-160 aircraft	. air breathing engines
	T-34 engine	CL-44 aircraft	gas turbine engines
		CL-84 aircraft	jet engines
	T-38 engine	DHC 5 aircraft	
	T-53 engine	DO-328 aircraft	ramjet engines
	T-55 engine		turboramjet engines
	T-56 engine	E-2 aircraft	turbojet engines
	T-63 engine	Electra aircraft	turboramjet engines
	T-64 engine	F-27 aircraft	. internal combustion engines
	T-74 engine	G-222 aircraft	gas turbine engines
	T-76 engine	HS-748 aircraft	jet engines
			ramjet engines
	T-78 engine	MH-262 aircraft	, ,
	turboramjet engines	OV-1 aircraft	turboramjet engines
RT	convergent nozzles	OV-10 aircraft	turbojet engines
	Hound Dog missile	P-3 aircraft	turboramjet engines
	jet aircraft	SC-5 aircraft	. turbine engines
	Mace missiles		gas turbine engines
	quail missile	Viscount aircraft	jet engines
	ramjet engines	YS-11 aircraft	ramjet engines
		RT ∞ aircraft	turboramjet engines
	Regulus missile	general aviation aircraft	
		∞ low wing aircraft	turbojet engines
	achine blades	•	turboramjet engines
GS	turbomachine blades	passenger aircraft	RT ∞ hybrid rocket engines
	. compressor blades	∞ subsonic aircraft	
	. rotor blades (turbomachinery)	transport aircraft	turborocket engines
	. stator blades	turbofan aircraft	GS engines
		tarbolari anoran	. rocket engines
	. turbine blades		•
RT	airfoils		turborocket engines
(	∞ blades	turboprop engines	. torpedo engines
	∞ buckets	UF Dart turboprop engines	turborocket engines
	cascade flow		RT booster rocket engines
	fan blades	GS engines	hydrazine engines
	impellers	. air breathing engines	hydrogen oxygen engines
		gas turbine engines	liquid air cycle engines
	mistuning (turbomachinery)	jet engines	
	paddles	, ,	restartable rocket engines
	rotors	turbojet engines	sustainer rocket engines
	turbine wheels	turboprop engines	
	vanes	T-34 engine	turborotors
		T-38 engine	USE turbine wheels
turbom	achinery	T-53 engine	
GS	turbomachinery	· · · · · · · · · · · · · · · · · · ·	turboshafts
ao		T-55 engine	GS shafts (machine elements)
	. centrifugal compressors	T-56 engine	,
	. centrifugal pumps	T-63 engine	. rotating shafts
	. J-33 engine	T-64 engine	turboshafts
	. turbine pumps		RT convertible fan-shaft engines
	. turbines	T-74 engine	rotors
	axial flow turbines	T-76 engine	turbines
	gas turbines	T-78 engine	wave rotors
		. internal combustion engines	wave lotois
	shrouded turbines	gas turbine engines	Turbo Clauson aircraft
	steam turbines		Turbo-Skyvan aircraft
	supersonic turbines	jet engines	USE SC-7 aircraft
	two stage turbines	turbojet engines	
	wind turbines	turboprop engines	turbulence
	tip vanes	T-34 engine	DEF A state of fluid flow in which the instan
	. turbocompressors	T-38 engine	taneous velocities exhibit irregular and appar
		T-53 engine	ently random fluctuations so that in practice onli
	. turbofans		
	. turbogenerators	T-55 engine	statistical properties can be recognized and
	ASTEC solar turboelectric	T-56 engine	subjected to analysis.
	generator	T-63 engine	GS turbulence
RT	blowers	T-64 engine	. atmospheric turbulence
	compressors	T-74 engine	clear air turbulence
	∞ machinery	T-76 engine	gusts
	pumps	T-78 engine	low level turbulence
		. turbine engines	. homogeneous turbulence
	rotating generators		
	rotor dynamics	gas turbine engines	. isotropic turbulence
	superchargers	jet engines	. low turbulence
	turbine instruments	turbojet engines	. magnetohydrodynamic turbulence
	wave rotors	turboprop engines	plasma turbulence
		T-34 engine	Langmuir turbulence
turbop	ause	T-38 engine	RT aerodynamic drag
		T-53 engine	atmospheric effects
GS	Earth atmosphere		
	. upper atmosphere	T-55 engine	backwash
	thermosphere	T-56 engine	boundary layer control
	turbopause	T-63 engine	boundary layer transition
RT	atmospheric circulation	T-64 engine	flow characteristics
	atmospheric physics	T-74 engine	fluid dynamics
	atmospheric turbulence	T-76 engine	gas streams
	amospirent turbulence		
Accests:	van aivavatt	T-78 engine	micrometeorology
TITE	rop aircraft	RT C-160 aircraft	mixing
	jet aircraft	contrarotating propellers	∞ motion
		contrarotating propellers E-2 aircraft	∞ motion nonuniformity
	jet aircraft		
	jet aircraft . turboprop aircraft AN-22 aircraft	E-2 aircraft P-3 aircraft	nonuniformity panel method (fluid dynamics)
	jet aircraft . turboprop aircraft	E-2 aircraft	nonuniformity

### turbulence effects

slipstreams steady flow strange attractors Strouhal number surface noise interactions turbulent boundary layer turbulent flow unsteady flow vertical air currents vortex filaments vortices vorticity wakes wind effects

### turbulence effects

aerodynamic stability buffeting ∞ effects flutter seeing (astronomy) separated flow

### turbulence meters

hot-wire turbulence meters GS 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

RT Baldwin-Lomax turbulence model boundary layer transition

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

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.

GS 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 flow

#### turbulent diffusion

eddy diffusion

GS diffusion

turbulent diffusion

atmospheric diffusion atmospheric turbulence clear air turbulence counterflow

## turbulent flames

(added June 1997)

GS 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.

GS fluid flow

### . 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

# turbulent heat transfer

GS transmission . heat transmission

. . heat transfer

vorticity transport hypothesis

. turbulent heat transfer 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 iaminar mixing mixing layers (fluids) mixing length flow theory recirculative fluid flow trapped vortices vortices

### turbulent wakes

swirling wakes

GS 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 automata theory cellular automata digital computers ∞ machinery mathematical logic quantum computation self organizing systems

### Turkey

GS nations Turkey Black Sea Europe Turkish space program

### turkeys

GS animals . vertebrates . . birds

. . turkeys livestock

### Turkish space program

(added August 1990) GS programs

. space programs . . European space programs

... Turkish space program

RT Turkey		TVD schemes		which treats of the relative motion of two
Turkmaniatan	RT	computational fluid dynamics		lasses under their mutual gravitational
Turkmenistan (added August 1993)		essentially non-oscillatory schemes finite difference theory		on. Used for two body orbits.  two body orbits
GS nations		finite volume method	RT	binary stars
. Turkmenistan		mile volume metrod		celestial mechanics
RT Asia	twenty	-four hour orbits		Earth-Moon system
1 (070)	GS	orbits		Hylleraas coordinates
turnaround (STS)  DEF The intervals between	en flights of the	. Earth orbits		many body problem
shuttle orbiters.	sen nights of the	twenty-four hour orbits . spacecraft orbits		orbital mechanics orbits
RT downtime		satellite orbits		perturbation
flight time		twenty-four hour orbits	c	∘ problems
launch dates	RT	circular orbits		Roche limit
schedules		equatorial orbits		three body problem
sequencing spacecraft maintenar	nce	geosynchronous orbits orbital mechanics		
testing time	nice	PAS	two din	nensional bodies
account and a		planetary orbits		∞ bodies
turning flight		polar orbits	c	o cross sections
UF banking flight		stationary orbits		ducted bodies mathematical models
GS turning flight	fit - l- t	Synchronous Communications	c	∘ surfaces
. minor circle turning RT aerodynamic balance		Satellite Proj	· ·	- Suridocs
aircraft maneuvers	5	synchronous satellites	Access allo	
aircraft stability	twenty	-seven day variation		nensional boundary layer boundary layers
climbing flight		variations	GS	. two dimensional boundary layer
∞ flight		. twenty-seven day variation	RT	laminar boundary layer
flight paths	RT	solar cycles		supersonic boundary layers
horizontal flight		solar rotation		turbulent boundary layer
lateral oscillation		starspots		
lateral stability maneuvers		sunspots	two din	nensional flow
momentum	twiligh	t alow	GS	fluid flow
roll	GS	atmospheric radiation		. two dimensional flow
yaw		. sky radiation		Couette flow
		airglow	DT	Ringleb flow
turnstile antennas		twilight glow	RT	axial flow Blasius flow
DEF Antennas composed tennas, normal to each othe		electromagnetic radiation		capillary waves
intersecting at their midpoints		. light (visible radiation) sky radiation		coaxial flow
rents are equal and in phase		airglow		flow geometry
GS antennas	4	twilight glow		Hartmann flow
. omnidirectional ante		dayglow		one dimensional flow
turnstile antenna	IS	night		Prandtl-Meyer expansion
arrays		night sky		radial flow Rayleigh waves
. antenna arrays <b>turnstile antenna</b>	no trainmir			steady flow
RT dipole antennas	ı <b>s twinni</b> ı GS	ig twinning		stream functions (fluids)
∞ grids	do	. mechanical twinning		Taylor instability
wire grid lenses	RT	crystal defects		three dimensional flow
_		crystal growth		wall flow
turpentine		crystal structure		wedge flow
GS solvents		grain boundaries		
. <b>turpentine</b> terpenes		stacking fault energy		nensional jets
. turpentine	twisted	d wings	RT	,
RT paints	GS	airfoils	_	jet mixing flow ∘ jets
·		. wings	C	wall flow
• turret		twisted wings		Wall How
SN (USE OF A MORE SPE RECOMMENDEDCON	CIFIC TERM IS RT	cambered wings	Aura alia	nensional models
LISTED BELOW)	TOOL! THE PERIMO	fixed wings		ed August 1988)
RT gun turrets		flexible wings ring wings		models
turret lathes		uncambered wings		. two dimensional models
turret lathes		anoamboroa miigo	RT	computerized simulation
GS tools	twistin			mathematical models
. machine tools	UF	pretwisting		three dimensional models
lathes	RT	bending		
turret lathes		buckling	two flu	id models
RT ∞ turret		deformation distortion	RT	Boltzmann distribution
turtles		kinking		liquid helium
GS animals		structural strain		magnetohydrodynamic flow
. vertebrates		torque		mixing layers (fluids)
reptiles		torsion		rotating plasmas shock wave propagation
turtles		torsional vibration		superfluidity
		warpage		1 9
Tutor aircraft		winding	المراجعة المراجعة	asa flow
USE <b>CL-41 aircraft</b>	twitchi	na	two pn	ase flow fluid flow
TVC (control)	RT	involuntary actions	do	. multiphase flow
USE thrust vector control		muscles		two phase flow
332 331431 130101 001111	<del></del>	muscular function	RT	gas flow
TVD schemes				laminar flow
(added August 1989)		dy orbits		liquid flow
UF total variation diminis		two body problem		particle image velocimetry
GS analysis (mathematic		du puelelem	c	o pressure drop
. numerical analysis		dy problem		single-phase flow
approximation	DEF	That problem in classical celestial me-		solids flow

turbulent flow	radio emission	solar radio bursts
tua nhasa sustama	radio bursts	type 4 bursts
two phase systems USE binary systems (materials)	solar radio bursts	emission . radio emission
OOL billary systems (materials)	<b>type 2 bursts</b> solar radio emission	. radio emission
two photon coherent states	solar radio bursts	solar radio bursts
USE squeezed states (quantum theory)	type 2 bursts	type 4 bursts
two reflector antennas	emission	solar radio emission
GS antennas	. radio emission	solar radio bursts
. directional antennas	radio bursts solar radio bursts	type 4 bursts extraterrestrial radiation
reflector antennas	type 2 bursts	. extraterrestrial radio waves
two reflector antennas	solar radio emission	radio bursts
RT Cassegrain antennas radio antennas	solar radio bursts	solar radio bursts
reflectometers	type 2 bursts	type 4 bursts
reflectors	extraterrestrial radiation . extraterrestrial radio waves	solar radio emission solar radio bursts
	radio bursts	type 4 bursts
two stage plasma engines	solar radio bursts	. solar radiation
GS engines . rocket engines	type 2 bursts	solar radio emission
electric rocket engines	solar radio emission	solar radio bursts
plasma engines	solar radio bursts	type 4 bursts
two stage plasma engines	type 2 bursts . solar radiation	type 5 bursts
RT electric propulsion	solar radio emission	GS bursts
plasmas (physics)	solar radio bursts	. radio bursts
two stage turbines	type 2 bursts	solar radio bursts
GS turbomachinery		type 5 bursts electromagnetic radiation
. turbines	type 3 bursts	. radio waves
two stage turbines	GS bursts . radio bursts	extraterrestrial radio waves
RT gas turbine engines gas turbines	solar radio bursts	radio bursts
steam turbines	type 3 bursts	solar radio bursts
	electromagnetic radiation	type 5 bursts solar radio emission
two-wavelength lasers	. radio waves	solar radio emission
GS stimulated emission devices	extraterrestrial radio waves	type 5 bursts
. lasers two-wavelength lasers	radio bursts solar radio bursts	radio emission
RT coherent light	type 3 bursts	radio bursts
dye lasers	solar radio emission	solar radio bursts
laser outputs	solar radio bursts	type 5 bursts solar radio emission
masers	type 3 bursts	solar radio emission
molecular oscillators quantum amplifiers	radio emission radio bursts	type 5 bursts
stimulated emission	solar radio bursts	emission
	type 3 bursts	. radio emission
TX-33-39 engine	solar radio emission	radio bursts solar radio bursts
USE XM-33 engine	solar radio bursts	type 5 bursts
TX-77 engine	type 3 bursts	solar radio emission
GS engines	emission . radio emission	solar radio bursts
. rocket engines	radio bursts	type 5 bursts
solid propellant rocket engines	solar radio bursts	extraterrestrial radiation . extraterrestrial radio waves
<b>TX-77 engine</b> RT Lance missile	type 3 bursts	radio bursts
TTI Lance missile	solar radio emission	solar radio bursts
TX-354 engine	solar radio bursts <b>type 3 bursts</b>	type 5 bursts
UF Castor 2 engine	extraterrestrial radiation	solar radio emission
GS engines	. extraterrestrial radio waves	solar radio bursts
. rocket engines solid propellant rocket engines	radio bursts	<b>type 5 bursts</b> . solar radiation
TX-354 engine	solar radio bursts	solar radio emission
RT booster rocket engines	<b>type 3 bursts</b> solar radio emission	solar radio bursts
Little Joe 2 launch vehicle	solar radio bursts	type 5 bursts
RAM B launch vehicle	type 3 bursts	turn except to un
Scout launch vehicle sustainer rocket engines	solar radiation	typewriters GS typewriters
Trailblazer 2 reentry vehicle	solar radio emission	. automatic typewriters
XM-33 engine	solar radio bursts <b>type 3 bursts</b>	. teletypewriters
	type 3 bursts	teleprinters
Tycho crater	tuno 4 hurata	RT printers
GS craters . lunar craters	type 4 bursts GS bursts	typhoid
Tycho crater	. radio bursts	GS diseases
RT meteorite craters	solar radio bursts	. infectious diseases
1 21	type 4 bursts	bacterial diseases
type 2 bursts GS bursts	electromagnetic radiation . radio waves	typhoid
. radio bursts	extraterrestrial radio waves	Typhon weapon system
solar radio bursts	radio bursts	GS weapon systems
type 2 bursts	solar radio bursts	. Typhon weapon system
electromagnetic radiation	type 4 bursts	RT Bumblebee project
. radio waves	solar radio emission	∞ systems
extraterrestrial radio waves radio bursts	solar radio bursts <b>type 4 bursts</b>	typhoons
solar radio bursts	radio emission	GS storms
type 2 bursts	radio bursts	. storms (meteorology)
solar radio emission	solar radio bursts	cyclones
solar radio bursts	type 4 bursts	typhoons
type 2 bursts	solar radio emission	tropical storms

... typhoons
atmospheric circulation
hurricanes
marine meteorology
meteorology
storm damage
tornadoes

typhus GS

diseases

. infectious diseases . . bacterial diseases

tyrosine GS acids

. amino acids . . tyrosine

organic compounds . amino acids . . tyrosine
RT enzyme activity

liver

1027

U bend	s		Mars 7 spacecraft	GS	Sikorsky aircraft
GS	pipes (tubes)		Mir space station	ao	. UH-34 helicopter
ao	. U bends		Molniya satellites		
DT			•		transport aircraft
RT	fittings		Proton satellites		UH-34 helicopter
			Russian Space Program		V/STOL aircraft
U spin			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			111	3-30 Helicoptei
	quantum mechanics		Venera 11 satellite	1111 00 4	halla autau
			Venera 12 satellite		helicopter
U tubes			Venera satellites	UF	YUH-60A helicopter
USE	manometers			GS	Sikorsky aircraft
		UARS I	satellite)		UH-60A helicopter
U-2 airc	eraft		Upper Atmosphere Research		transport aircraft
UF	ER-2 aircraft	USL			
٥.	Lockheed U-2 aircraft		Satellite (UARS)		. UH-60A helicopter
					utility aircraft
00	WU-2 aircraft	UAS			. UH-60A helicopter
GS	jet aircraft	(add	ed August 2007)		V/STOL aircraft
	. U-2 aircraft		unmanned aircraft systems		. rotary wing aircraft
	Lockheed aircraft	002			helicopters
	. U-2 aircraft	UBV sp	noetra		
	monoplanes				military helicopters
		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		,
	research vehicles	RT	color-color diagram	IIH-61Δ	helicopter
	. research aircraft		color color diagram		YUH-61A helicopter
	U-2 aircraft	Halimana	allava		
		Udimet		GS	Sikorsky aircraft
	utility aircraft	GS	alloys		. UH-61A helicopter
	. U-2 aircraft		. heat resistant alloys		transport aircraft
RT ∝	aircraft aircraft		Udimet alloys		UH-61A helicopter
			. nickel alloys		utility aircraft
U-10 aiı	craft				
UF	Courier aircraft		Udimet alloys		. UH-61A helicopter
UF					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	1		UH-61A helicopter
	. U-10 aircraft	GS	nations	DT	-
		GS		RT	helicopter design
	monoplanes		. Uganda		UH-1 helicopter
	U-10 aircraft	RT	Africa		
	passenger aircraft			UHTRE	X (nuclear reactors)
	. U-10 aircraft	UGV (v	ehicles)	USE	
	utility aircraft		ed July 2002)	002	mgm tomporatare madical reactors
	. U-10 aircraft		unmanned ground vehicles	1.00	
		USL	unnanneu ground venicles		satellite
	V/STOL aircraft			UF	Explorer 42 satellite
	. short takeoff aircraft		elicopter	GS	artificial satellites
	U-10 aircraft	UF	HU-1 helicopter		. scientific satellites
RT ∝	⇒ aircraft		Iroquois helicopter		Explorer satellites
			RH-2 helicopter		Uhuru satellite
U.S.S.R			YHU-1 helicopter	DT	
				RT	galactic radiation
UF	Soviet Union		YUH-1 helicopter		SAS
GS	nations	GS	Bell aircraft		satellite observation
	. U.S.S.R.		. UH-1 helicopter		x ray astronomy
RT	Asia		utility aircraft		x ray stars
	Barents Sea		. UH-1 helicopter		x ray stars
	Black Sea		V/STOL aircraft	UK 4 sa	atallita
			. rotary wing aircraft		
	Caucasus Mountains (U.S.S.R.)		, 0	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 sate	ellites
	**			UF	United Kingdom satellites
					artificial satellites
Heep	opono program	IIII o b	olioontor		artificial satellites
	. space program		elicopter	GS	
U.S.S.R GS	programs		HU2K-1 helicopter		. scientific satellites
	programs . space programs		HU2K-1 helicopter Kaman UH-2A helicopter		
	programs		HU2K-1 helicopter		. scientific satellites UK satellites
GS	programs . space programs . U.S.S.R. space program	UF	HU2K-1 helicopter Kaman UH-2A helicopter Seasprite helicopter		. scientific satellites UK satellites Ariel 4 satellite
GS	programs . space programs . U.S.S.R. space program Apollo Soyuz test project		HU2K-1 helicopter Kaman UH-2A helicopter Seasprite helicopter Kaman aircraft		. scientific satellites UK satellites Ariel 4 satellite Ariel 5 satellite
GS	programs . space programs . U.S.S.R. space program Apollo Soyuz test project Automatic Universal Orbiting Stations	UF	HU2K-1 helicopter Kaman UH-2A helicopter Seasprite helicopter Kaman aircraft . UH-2 helicopter		. scientific satellites . UK satellites Ariel 4 satellite Ariel 5 satellite Miranda satellite
GS	programs . space programs . U.S.S.R. space program Apollo Soyuz test project Automatic Universal Orbiting Stations Buran space shuttle	UF	HU2K-1 helicopter Kaman UH-2A helicopter Seasprite helicopter Kaman aircraft UH-2 helicopter utility aircraft	GS	. scientific satellites . UK satellites Ariel 4 satellite Ariel 5 satellite Miranda satellite UK 4 satellite
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GS	programs . space programs . U.S.S.R. space program Apollo Soyuz test project Automatic Universal Orbiting Stations Buran space shuttle GLONASS international cooperation international relations International Satellite Geodesy	UF	HU2K-1 helicopter Kaman UH-2A helicopter Seasprite helicopter Kaman aircraft UH-2 helicopter utility aircraft UH-2 helicopter V/STOL aircraft rotary wing aircraft helicopters helicopters	GS RT	. scientific satellites . UK satellites . Ariel 4 satellite . Ariel 5 satellite . Miranda satellite . UK 4 satellite Infrared Astronomy Satellite Skynet satellites UK space program
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GS	programs . space programs . U.S.S.R. space program Apollo Soyuz test project Automatic Universal Orbiting Stations Buran space shuttle GLONASS international cooperation international relations International Satellite Geodesy Experiment lunar retroreflectors	UF	HU2K-1 helicopter Kaman UH-2A helicopter Seasprite helicopter Kaman aircraft UH-2 helicopter utility aircraft UH-2 helicopter V/STOL aircraft rotary wing aircraft helicopters helicopters	GS RT UK spa	. scientific satellites . UK satellites . Ariel 4 satellite . Ariel 5 satellite . Miranda satellite . UK 4 satellite Infrared Astronomy Satellite Skynet satellites UK space program ce program programs
GS	programs . space programs . U.S.S.R. space program Apollo Soyuz test project Automatic Universal Orbiting Stations Buran space shuttle GLONASS international cooperation international relations International Satellite Geodesy Experiment lunar retroreflectors Lunik 19 lunar probe	UF GS	HU2K-1 helicopter Kaman UH-2A helicopter Seasprite helicopter Kaman aircraft UH-2 helicopter utility aircraft UH-2 helicopter V/STOL aircraft rotary wing aircraft helicopters . military helicopters . UH-2 helicopter	GS RT UK spa	. scientific satellites . UK satellites . Ariel 4 satellite . Ariel 5 satellite . Miranda satellite . UK 4 satellite Infrared Astronomy Satellite Skynet satellites UK space program
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GS	programs . space programs . U.S.S.R. space program Apollo Soyuz test project Automatic Universal Orbiting Stations Buran space shuttle GLONASS international cooperation international relations International Satellite Geodesy Experiment Iunar retroreflectors Lunik 19 Iunar probe Lunik 22 Iunar probe	UF GS UH-12	HU2K-1 helicopter Kaman UH-2A helicopter Seasprite helicopter Kaman aircraft UH-2 helicopter utility aircraft UH-2 helicopter V/STOL aircraft rotary wing aircraft helicopters UH-2 helicopters UH-2 helicopter	GS RT UK spa	. scientific satellites . UK satellites . Ariel 4 satellite . Ariel 5 satellite . Miranda satellite . UK 4 satellite lnfrared Astronomy Satellite Skynet satellites UK space program ce program programs . space programs . European space programs
GS	programs . space programs . U.S.S.R. space program Apollo Soyuz test project Automatic Universal Orbiting Stations Buran space shuttle GLONASS international cooperation international relations International Satellite Geodesy Experiment lunar retroreflectors Lunik 19 lunar probe Lunik 22 lunar probe Lunik lunar probes	UF GS	HU2K-1 helicopter Kaman UH-2A helicopter Seasprite helicopter Kaman aircraft UH-2 helicopter utility aircraft UH-2 helicopter V/STOL aircraft rotary wing aircraft helicopters UH-2 helicopter UH-2 helicopter	GS RT <b>UK spa</b> GS	. scientific satellites . UK satellites . Ariel 4 satellite . Ariel 5 satellite . Miranda satellite . UK 4 satellite Infrared Astronomy Satellite Skynet satellites UK space program ce program programs . space programs . European space programs . UK space program
GS	programs . space programs . U.S.S.R. space program Apollo Soyuz test project Automatic Universal Orbiting Stations Buran space shuttle GLONASS international cooperation international relations International Satellite Geodesy Experiment lunar retroreflectors Lunik 19 lunar probe Lunik 22 lunar probe Lunik lunar probes Lunokhod lunar roving vehicles	UF GS UH-12 USE	HU2K-1 helicopter Kaman UH-2A helicopter Seasprite helicopter Kaman aircraft UH-2 helicopter utility aircraft UH-2 helicopter V/STOL aircraft rotary wing aircraft helicopters UH-2 helicopter Helicopter OH-23 helicopter	GS RT <b>UK spa</b> GS	. scientific satellites . UK satellites . Ariel 4 satellite . Ariel 5 satellite . Miranda satellite . UK 4 satellite Infrared Astronomy Satellite Skynet satellites UK space program ce program programs . space programs . European space programs . UK space program HOTOL launch vehicle
GS	programs . space programs . U.S.S.R. space program Apollo Soyuz test project Automatic Universal Orbiting Stations Buran space shuttle GLONASS international cooperation international relations International Satellite Geodesy Experiment lunar retroreflectors Lunik 19 lunar probe Lunik 22 lunar probe Lunik lunar probes Lunokhod lunar roving vehicles Mars 1 spacecraft	UH-12 LUSE	HU2K-1 helicopter Kaman UH-2A helicopter Seasprite helicopter Kaman aircraft UH-2 helicopter utility aircraft UH-2 helicopter V/STOL aircraft rotary wing aircraft helicopters UH-2 helicopters Helicopter UH-2 helicopter	GS RT <b>UK spa</b> GS	. scientific satellites . UK satellites . Ariel 4 satellite . Ariel 5 satellite . Miranda satellite . UK 4 satellite Infrared Astronomy Satellite Skynet satellites UK space program  ce program programs . space programs . European space programs . UK space program HOTOL launch vehicle UK satellites
GS	programs . space programs . U.S.S.R. space program Apollo Soyuz test project Automatic Universal Orbiting Stations Buran space shuttle GLONASS international cooperation international relations International Satellite Geodesy Experiment Iunar retroreflectors Lunik 19 lunar probe Lunik 22 lunar probe Lunik lunar probes Lunokhod lunar roving vehicles Mars 1 spacecraft Mars 2 spacecraft	UH-12 LUSE	HU2K-1 helicopter Kaman UH-2A helicopter Seasprite helicopter Kaman aircraft UH-2 helicopter utility aircraft UH-2 helicopter V/STOL aircraft rotary wing aircraft helicopters UH-2 helicopter Helicopter OH-23 helicopter	GS RT <b>UK spa</b> GS	. scientific satellites . UK satellites . Ariel 4 satellite . Ariel 5 satellite . Miranda satellite . UK 4 satellite Infrared Astronomy Satellite Skynet satellites UK space program ce program programs . space programs . European space programs . UK space program HOTOL launch vehicle
GS	programs . space programs . U.S.S.R. space program Apollo Soyuz test project Automatic Universal Orbiting Stations Buran space shuttle GLONASS international cooperation international relations International Satellite Geodesy Experiment lunar retroreflectors Lunik 19 lunar probe Lunik 22 lunar probe Lunik lunar probes Lunokhod lunar roving vehicles Mars 1 spacecraft	UH-12 LUSE	HU2K-1 helicopter Kaman UH-2A helicopter Seasprite helicopter Kaman aircraft UH-2 helicopter utility aircraft UH-2 helicopter V/STOL aircraft rotary wing aircraft helicopters UH-2 helicopters Helicopter UH-2 helicopter	GS RT <b>UK spa</b> GS	. scientific satellites . UK satellites . Ariel 4 satellite . Ariel 5 satellite . Miranda satellite . UK 4 satellite Infrared Astronomy Satellite Skynet satellites UK space program  ce program programs . space programs . European space programs . UK space program HOTOL launch vehicle UK satellites
GS	programs . space programs . U.S.S.R. space program Apollo Soyuz test project Automatic Universal Orbiting Stations Buran space shuttle GLONASS international cooperation international relations International Satellite Geodesy Experiment Iunar retroreflectors Lunik 19 lunar probe Lunik 22 lunar probe Lunik lunar probes Lunokhod lunar roving vehicles Mars 1 spacecraft Mars 2 spacecraft	UH-12 USE UH-13 USE	HU2K-1 helicopter Kaman UH-2A helicopter Seasprite helicopter Kaman aircraft UH-2 helicopter utility aircraft UH-2 helicopter V/STOL aircraft rotary wing aircraft helicopters UH-2 helicopters Helicopter UH-2 helicopter	GS RT <b>UK spa</b> GS	. scientific satellites . UK satellites . Ariel 4 satellite . Ariel 5 satellite . Miranda satellite . UK 4 satellite Infrared Astronomy Satellite Skynet satellites UK space program ce program programs . space programs . European space programs . UK space program HOTOL launch vehicle UK satellites United Kingdom
GS	programs . space programs . U.S.S.R. space program Apollo Soyuz test project Automatic Universal Orbiting Stations Buran space shuttle GLONASS international cooperation international relations International Satellite Geodesy Experiment lunar retroreflectors Lunik 19 lunar probe Lunik 19 lunar probe Lunik 22 lunar probe Lunik lunar probes Lunokhod lunar roving vehicles Mars 1 spacecraft Mars 2 spacecraft Mars 3 spacecraft Mars 4 Spacecraft	UH-12 I USE UH-13 I USE UH-34 I	HU2K-1 helicopter Kaman UH-2A helicopter Seasprite helicopter Kaman aircraft UH-2 helicopter utility aircraft UH-2 helicopter V/STOL aircraft helicopters Uhiltary wing aircraft helicopter UH-2 helicopter UH-2 helicopter Helicopter Helicopter OH-23 helicopter Helicopter OH-13 helicopter	GS  RT  UK spa GS  RT	. scientific satellites . UK satellites . Ariel 4 satellite . Ariel 5 satellite . Miranda satellite . UK 4 satellite Infrared Astronomy Satellite Skynet satellites UK space program ce program programs . space programs . European space programs . UK space program HOTOL launch vehicle UK satellites United Kingdom
GS	programs . space programs . U.S.S.R. space program Apollo Soyuz test project Automatic Universal Orbiting Stations Buran space shuttle GLONASS international cooperation international relations International Satellite Geodesy Experiment lunar retroreflectors Lunik 19 lunar probe Lunik 22 lunar probe Lunik lunar roving vehicles Mars 1 spacecraft Mars 2 spacecraft Mars 3 spacecraft Mars 3 spacecraft	UH-12 I USE UH-13 I USE UH-34 I	HU2K-1 helicopter Kaman UH-2A helicopter Seasprite helicopter Kaman aircraft UH-2 helicopter utility aircraft UH-2 helicopter V/STOL aircraft helicopters utility helicopters UH-2 helicopter UH-2 helicopters Helicopter OH-23 helicopter helicopter OH-13 helicopter	GS  RT  UK spa GS  RT  Ukraine (addd	. scientific satellites . UK satellites . Ariel 4 satellite . Ariel 5 satellite . Miranda satellite . UK 4 satellite Infrared Astronomy Satellite Skynet satellites UK space program ce program programs . space programs . European space programs . UK space program HOTOL launch vehicle UK satellites United Kingdom

	. Ukraine		light aircraft		ultraganias
DT			light aircraft		ultrasonics
RT	Europe		man powered aircraft	ultraeo	nic machining
	Ukrainian space program	~	winged vehicles	UF	ultrasonic grinding machines
Ukraini	an space program			GS	machining
	ed January 1999)		frequencies	GS	3
		USE	extremely low frequencies	DT	. ultrasonic machining
GS	programs			RT	ultrasonics
	. space programs	ultralow	temperature		
	Ukrainian space program	USE	cryogenic temperature		nic processing
RT	Ukraine		, ,		ed June 1998)
	Zenit launch vehicles	ultranu	re metals		The use of ultrasonic radiation to syn-
		GS			a compound or material, or alter the
ulcers		ao	. ultrapure metals		e, properties, or form of a material.
GS	diseases	RT		UF	sonochemistry
	. ulcers	пі			ultrasonic treatment
RT	cancer		impurities	RT o	∞ processing
			purification		ultrasonic cleaning
ullage			purity		ultrasonics
DEF	The amount that a container, such as a		single crystals .		
fuel tanl	k, lacks of being full.		space processing	ultraso	nic radiation
RT	fuel tank pressurization		vapor deposition	UF	ultrasonic waves
	fuel tanks		zone melting	GS	elastic waves
	interface stability				. ultrasonic radiation
	liquid sloshing	ultrasho	ort pulsed lasers	RT	acoustic frequencies
	propellant tanks	GS	stimulated emission devices		coherent acoustic radiation
	splashing		. lasers		magnetoelastic waves
	tank geometry		pulsed lasers	c	∘ radiation
	ullage rocket engines		ultrashort pulsed lasers		sound waves
		RT	glass lasers		ultrasonics
ullage r	ocket engines		laser applications		underwater acoustics
	engines		light amplifiers		ando mator accused
	. rocket engines		pulse duration	ultraso	nic scanners
	. ullage rocket engines		quantum amplifiers		scanners
	. torpedo engines		stimulated emission	0.0	. ultrasonic scanners
	ullage rocket engines		Stillulated Cillission	RT	acoustics
RT	solid propellant rocket engines				imaging techniques
111	ullage		nic agitation		
	ullage	GS	•		measuring instruments
LILM (lie	ght modulation)		. ultrasonic agitation		scanning
	ultrasonic light modulation	RT	ultrasonics		ultrasonic flaw detection
USE	ultrasonic light modulation				ultrasonics
ulna		ultrasor	nic cleaning		nia aaldarina
GS	anatomy	GS	cleaning		nic soldering
do	anatomy		. ultrasonic cleaning	UF	3
	. musculoskeletal system	RT	acoustics	GS	
	bones		cavitation flow		ultrasonic soldering
ОТ	ulna		cleaners		brazing
NI.	arm (anatomy)		etching	c	∘ joining
	elbow (anatomy)		fluid flow		ultrasonic welding
			grinding machines		ultrasonics
	ort wave radio equipment		machine tools		
USE	very high frequency radio		piezoelectric transducers		nic spectroscopy
	equipment			GS	1 17
.,	. 44		polishing tools		. ultrasonic spectroscopy
ultracap				RT	cracks
	ed September 2003)		transducers		nondestructive tests
USE	electrochemical capacitors		ultrasonic processing		spectrum analysis
والمساور	h francisco		ultrasonics		
	h frequencies			ultraso	nic tests
SN UF	(300 TO 3000 MHZ) L band		nic densimeters	RT	acoustic measurement
UF	S band		Density measuring instruments utiliz-		acoustic sounding
00			sonic devices (sensors).		dynamic modulus of elasticity
GS	frequencies	GS	measuring instruments		Lamb waves
	. radio frequencies		. densimeters	c	o materials tests
	ultrahigh frequencies		ultrasonic densimeters		nondestructive tests
БТ	P band	RT	density (mass/volume)		SH waves
RT			density measurement	c	∘ tests
	EISCAT radar system (Europe)	~	instruments		ultrasonics
	Fleet Satellite Communication System	~	measurement		
	low frequencies			ultrasor	nic treatment
	passive L-band radiometers	ultracor	nic flaw detection	(add	ed June 1998)
	praetersonic devices	GS		USE	ultrasonic processing
	unified S band	GS	ultrasonic flaw detection		
	very high frequency radio equipment	DT		ultraso	nic wave transducers
		RT	acoustic imaging		transducers
ultrahig	h vacuum	~	detectors	0.0	. ultrasonic wave transducers
GS	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 actuators
	residual gas		ultrasonic scanners		•
	vacuum apparatus				pressure sensors
	vacuum tests	ultrason	ic grinding machines		sonar
	radaum todo		ultrasonic machining		surface acoustic wave devices
ultralial	nt aircraft		· •		ultrasonics
	An aircraft for one person weighing	ultrace	nic light modulation		underwater acoustics
	n 254 pounds with a top speed of 55	UF			nia wayoo
			ULM (light modulation)		nic waves
	nd a maximum stalling speed of 24	GS	modulation	USE	ultrasonic radiation
knots.	aircraft		. light modulation		nie wolding
HI∝	aircraft		ultrasonic light modulation		nic welding
	hang gliders	RT	Bragg cells	GS	welding

. pressure welding ultraviolet telescopes ultraviolet reflection . ultrasonic welding infrared reflection ultraviolet lasers radio echoes spot welds ultrasonic soldering UV lasers reflectometers GS spread reflection stimulated emission devices ultrasonics . lasers . . gas lasers ultrasonics ultraviolet spectra DEF The technology of sound at frequen-... ultraviolet lasers spectra cies above the audio frequency range. . . pulsed lasers . radiation spectra acoustics . ultraviolet lasers . . electromagnetic spectra electroacoustics coherent light .. ultraviolet spectra ultrasonic agitation laser outputs absorption spectra ultrasonic cleaning light amplifiers emission spectra ultrasonic light modulation light transmission Herzberg bands ultrasonic machining masers high dispersion spectrographs molecular oscillators ultrasonic processing light (visible radiation) ultrasonic radiation nitrogen lasers line spectra ultrasonic scanners quantum amplifiers Lyman spectra ultrasonic soldering stimulated emission molecular spectra ultrasonic tests xenon chloride lasers radio spectroscopy ultrasonic wave transducers solar spectra ultrasonic welding ultraviolet light stellar spectra USE ultraviolet radiation ultraviolet detectors ultraviolet absorption ultraviolet emission ultraviolet lithography GS energy absorption . radiation absorption USE lithography . . electromagnetic absorption ultraviolet spectrographs ... ultraviolet absorption ultraviolet microscopy USE ultraviolet spectrometers RT ∞ absorption GS microscopy ultraviolet detectors ultraviolet microscopy microscopes ultraviolet spectrometers ultraviolet astronomy ultraviolet spectrographs DEF Use of special optical instruments for ultraviolet photography measuring instruments the observation of astronomical phenomena in imagery . optical measuring instruments the ultraviolet spectrum. . photography . . photometers astronomy
. ultraviolet astronomy ultraviolet photography GS ... ultraviolet spectrometers . ultraviolet imagery .... high dispersion spectrographs . ultraviolet photography electromagnetic radiation .... Total Ozone Mapping Extreme Ultraviolet Explorer satellite aerial photography Hubble Space Telescope
Lyman alpha radiation
Lyman beta radiation
Spartan satellites
Starsat telescope Spectrometer . radiation measuring instruments color photography . . actinometers faint object camera . . . ultraviolet detectors infrared photography .... ultraviolet spectrometers Starsat telescope radar photography . . . . high dispersion spectrographs telescopes . . . . Total Ozone Mapping ultraviolet photometry ultraviolet telescopes Spectrometer imagery . . photometers photography ultraviolet detectors . . . ultraviolet spectrometers . ultraviolet photometry GS measuring instruments .... high dispersion spectrographs optical measurement . radiation measuring instruments . . . . Total Ozone Mapping photometry . . actinometers Spectrometer ultraviolet photometry ... ultraviolet detectors . spectrometers black and white photography ... ultraviolet spectrometers . . . . ultraviolet spectrometers ultraviolet imagery . . . . high dispersion spectrographs . . . high dispersion spectrographs . . . Total Ozone Mapping . . . . Total Ozone Mapping ultraviolet radiation Spectrometer Spectrometer DEF Electromagnetic radiation of shorter wavelength than visible radiation; roughly, radiaoptical equipment . optical measuring instruments . . . 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 . . photometers radiometers ... ultraviolet spectrometers ultraviolet absorption . . . high dispersion spectrographs . . . Total Ozone Mapping electromagnetic radiation ultraviolet radiation . ultraviolet radiation ultraviolet spectra Spectrometer . . extreme ultraviolet radiation x ray detectors Ebert spectrometers . . far ultraviolet radiation Solar Maximum Mission . . . Lyman alpha radiation ultraviolet emission solar spectrometers (added August 1991) ... Lyman beta radiation electromagnetic radiation . . near ultraviolet radiation . ultraviolet radiation . ultraviolet emission ultraviolet spectrophotometers . . ultraviolet emission beams (radiation) GS measuring instruments emission black body radiation . optical measuring instruments . . photometers . ultraviolet emission Cerenkov radiation emission spectra coherent electromagnetic radiation ... ultraviolet spectrophotometers spectral emission coronal holes . . spectrophotometers dayglow ... ultraviolet spectrophotometers ultraviolet spectra IUÉ . radiation measuring instruments ultraviolet filters microchannels . . actinometers electromagnetic wave filters monochromatic radiation ... spectrophotometers . optical filters polarized electromagnetic radiation .... ultraviolet ultraviolet filters spectrophotometers radiation bandpass filters Seyfert galaxies . . . ultraviolet detectors electric filters solar radiation .... ultraviolet infrared filters sterilization spectrophotometers sunlight . . photometers ultraviolet imagery thermal radiation . ultraviolet spectrophotometers (added January 1997) ultraviolet detectors optical equipment

Umkehr effect

ultraviolet reflection

GS reflection

. optical measuring instruments

... ultraviolet spectrophotometers

. . photometers

. . spectrophotometers

RT

imagery

ultraviolet imagery
. ultraviolet photography

ultraviolet photometry

### ... ultraviolet spectrophotometers

### ultraviolet spectroscopy

GS spectroscopy

. ultraviolet spectroscopy

absorption spectroscopy astronomical spectroscopy molecular spectroscopy optogalvanic spectroscopy radio spectroscopy spectroscopic analysis spectrum analysis vacuum spectroscopy x ray spectroscopy

### ultraviolet telescopes

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 stabilized spacecraft equipped with instruments for solar and astrophysical observations. Used for International Solar Polar Mission.

UF International Solar Polar Mission
GS space missions

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

towers GS

umbilical towers

gantry cranes launching pads

## umbras

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

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

RT 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. GS

blowing

under surface blowing

aerodynamic characteristics

aircraft configurations circulation control airfoils

∞ surfaces

upper surface blowing

### undercarriages

GS frames

### . undercarriages

carriages carts chassis dollies landing gear substructures suspension systems (vehicles)

undercooling

(added May 1999) USE 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<sup>°</sup> caves excavation foundations mines (excavations) mining passageways tunneling (excavation)

### underground transmission lines

GS transmission lines

underground transmission lines

circuits electric power transmission power lines

# underwater acoustics

sonar

hydroacoustics underwater sound acoustics

. 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

. 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

GS imagery

. 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.

GS physiology

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 sea water water resources

underwater sound

USE underwater acoustics

### 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

fluid flow GS

. 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 subcritical flow turbulent flow

### unimolecular structures

RT molecular structure ∞ structures

unsteady flow

### unionization

RT federations organizing personnel ∞ unions

### ∞ unions

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN 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 . . Univac computers . . Oregon (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 RT algebra . . Utah . . Univac computers complex variables . . Vermont . . . Univac 494 computer geometry . . Virgin Islands Univac 1100 series computers number theory Virginia probability theory . . Washington GS data processing equipment real variables . computers West Virginia . . Wisconsin . . analog computers **United Arab Emirates** Wyoming .... Univac 1100 series computers nations Aleutian Islands (US) . . . . Univac 1105 computer Cascade Range (CA-OR-WA) Central Atlantic Region (US) . United Arab Emirates . . . . Univac 1106 computer . . . . 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 Wales 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 .... Univac 1107 computer United Kingdom satellites units of measurement . . . . Univac 1108 computer USE **UK** satellites 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 quantideveloping nations GS data processing equipment European Union . computers GS units of measurement federations . . analog computers . International System of Units international cooperation ... Univac 1100 series computers conversion tables Univac 1105 computer international law dimensional analysis nations . . digital computers dimensions organizations . . . Ŭnivac 1100 series computers measurement politics Univac 1105 computer metrication sea law . . Univac computers metrology World Meteorological Organization ... Univac 1100 series computers month .... Univac 1105 computer parameterization **United States** sidereal time USA (United States) Univac 1106 computer symbols nations GS data processing equipment time . United States computers . . Alabama . . analog computers unity 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 1100 series computers Univac 80 computer GS data processing equipment Kentucky . Univac 1107 computer 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 GS data processing equipment Missouri . . . analog computers ... Univac 1100 series computers . . Montana . computers . . digital computers Nebraska Univac 1108 computer . . digital computers . . Nevada ... Univac 1100 series computers New Hampshire . . Univac computers . Univac 1108 computer New Jersey . . . Univac 418 computer New Mexico . . Univac computers Univac 490 computer
GS data processing equipment New York ... Univac 1100 series computers North Carolina . . . . Univac 1108 computer North Dakota . computers

. . digital computers

. . . Univac 490 computer

Ohio

Oklahoma

Univac 1110 computer

GS data processing equipment

	. computers	RT computer programming	Ranger lunar probes
	analog computers Univac 1100 series computers	software engineering workstations	Ranger 1 lunar probe
	Univac 1100 series computer	WORKSIATIONS	Ranger 2 lunar probe
	digital computers	unloading	Ranger 3 lunar probe
	Univac 1100 series computers	RT ∞ discharge	Ranger 4 lunar probe
	Univac 1110 computer	disposal	Ranger 5 lunar probe Ranger 6 lunar probe
	Univac computers	dumping	Ranger 7 lunar probe
	Univac 1100 series computers	ejection	Ranger 8 lunar probe
	Univac 1110 computer	emptying	Ranger 9 lunar probe
Univac	1220 computer	evacuating (transportation)	Ranger lunar landing vehicles
GS	1230 computer data processing equipment	expulsion loading operations	Surveyor lunar probes
ao	. 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		Surveyor 5 lunar probe Surveyor 6 lunar probe
Haires		unloading waves	Surveyor 7 lunar probe
GS	data processing equipment	GS elastic waves . unloading waves	Mariner space probes
as	data processing equipment . 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 Mariner 7 space probe
	Univac 1108 computer	DEF Pilotless flight systems consisting of an	Mariner 8 space probe
	Univac 1110 computer	unmanned aircraft, sensors, payloads, commu- nications equipment carried on board the air-	Mariner 9 space probe
	Univac 80 computer Univac 418 computer	craft, and ground control stations that control the	Mariner 10 space probe
	Univac 490 computer	flight of the aircraft and receive information	Mariner 11 space probe
	Univac 494 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
Halina	Lana announted	pilotless aircraft	Mars probes Advanced Reconn Electric
GS	Larc computer data processing equipment	reconnaissance aircraft remotely piloted vehicles	Spacecraft
us	. computers	∞ systems	Mariner 3 space probe
	digital computers	dydiomo	Mariner 4 space probe
	Univac Larc computer	unmanned ground vehicles	Mariner 6 space probe
	Univac computers	(added July 2002)	Mariner 7 space probe
	Univac Larc computer	DEF Ground vehicles using remote or au-	Mariner 8 space probe
		tonomous control.	Mariner 9 space probe
	eal time	UF UGV (vehicles)	Mars 1 spacecraft
DEF	Time defined by the rotational motion	UF UGV (vehicles) GS surface vehicles	Mars 1 spacecraft Mars 2 spacecraft
DEF of the E	Time defined by the rotational motion earth and determined from the apparent	UF UGV (vehicles) GS surface vehicles . unmanned ground vehicles	Mars 1 spacecraft Mars 2 spacecraft Mars 3 spacecraft
DEF of the E diurnal	Time defined by the rotational motion earth and determined from the apparent motions which reflect this rotation; be-	UF UGV (vehicles) GS surface vehicles	Mars 1 spacecraft Mars 2 spacecraft
DEF of the E diurnal cause of	Time defined by the rotational motion earth and determined from the apparent	UF UGV (vehicles) GS surface vehicles . unmanned ground vehicles RT autonomous navigation	Mars 1 spacecraft Mars 2 spacecraft Mars 3 spacecraft Mars 4 Spacecraft Mars 5 spacecraft Mars 6 spacecraft
DEF of the E diurnal cause of versal t Greenw	Time defined by the rotational motion carth and determined from the apparent motions which reflect this rotation; be- of variations in the rate of rotation, uni- me is not rigorously uniform. Also called ich mean time.	UF UGV (vehicles) GS surface vehicles . unmanned ground vehicles RT autonomous navigation remotely piloted vehicles robot control robotics	Mars 1 spacecraft Mars 2 spacecraft Mars 3 spacecraft Mars 4 Spacecraft Mars 5 spacecraft Mars 6 spacecraft Mars 7 spacecraft
DEF of the E diurnal cause of versal t	Time defined by the rotational motion earth and determined from the apparent motions which reflect this rotation; befor variations in the rate of rotation, unime is not rigorously uniform. Also called ich mean time.	UF UGV (vehicles) GS surface vehicles . unmanned ground vehicles RT autonomous navigation remotely piloted vehicles robot control robotics roving vehicles	Mars 1 spacecraft Mars 2 spacecraft Mars 3 spacecraft Mars 4 Spacecraft Mars 5 spacecraft Mars 6 spacecraft Mars 7 spacecraft Mars 7 spacecraft Mars Observer
DEF of the E diurnal cause oversal t Greenw GS	Time defined by the rotational motion earth and determined from the apparent motions which reflect this rotation; befor variations in the rate of rotation, unime is not rigorously uniform. Also called ich mean time.  time universal time	UF UGV (vehicles) GS surface vehicles . unmanned ground vehicles RT autonomous navigation remotely piloted vehicles robot control robotics	Mars 1 spacecraft Mars 2 spacecraft Mars 3 spacecraft Mars 4 Spacecraft Mars 5 spacecraft Mars 6 spacecraft Mars 7 spacecraft Mars 7 spacecraft Mars Observer Mars Pathfinder
DEF of the E diurnal cause of versal t Greenw	Time defined by the rotational motion earth and determined from the apparent motions which reflect this rotation; before variations in the rate of rotation, unime is not rigorously uniform. Also called inch mean time.  time  . universal time ephemeris time	UF UGV (vehicles) GS surface vehicles	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
DEF of the E diurnal cause oversal t Greenw GS	Time defined by the rotational motion earth and determined from the apparent motions which reflect this rotation; befor variations in the rate of rotation, unime is not rigorously uniform. Also called ich mean time.  time universal time	UF UGV (vehicles) GS surface vehicles . unmanned ground vehicles RT autonomous navigation remotely piloted vehicles robot control robotics roving vehicles surface navigation  unmanned spacecraft	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
DEF of the E diurnal cause oversal t Greenw GS	Time defined by the rotational motion carth and determined from the apparent motions which reflect this rotation; be- of variations in the rate of rotation, uni- me is not rigorously uniform. Also called ich mean time.  time  . universal time ephemeris time time synchronization	UF UGV (vehicles) GS surface vehicles	Mars 1 spacecraft Mars 2 spacecraft Mars 3 spacecraft Mars 4 Spacecraft Mars 5 spacecraft Mars 6 spacecraft Mars 7 spacecraft Mars 7 spacecraft Mars Observer Mars Pathfinder Viking 1975 entry vehicle Viking 1 spacecraft Viking 1 spacecraft
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DEF of the E diurnal cause oversal t Greenw GS RT	Time defined by the rotational motion earth and determined from the apparent motions which reflect this rotation; befor variations in the rate of rotation, unime is not rigorously uniform. Also called ich mean time.  time  universal time ephemeris time time synchronization	UF UGV (vehicles) GS surface vehicles	Mars 1 spacecraft Mars 2 spacecraft Mars 3 spacecraft Mars 4 Spacecraft Mars 5 spacecraft Mars 6 spacecraft Mars 7 spacecraft Mars 7 spacecraft Mars Pathfinder Viking 1975 entry vehicle Viking spacecraft Viking 1 spacecraft Viking lander 1
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DEF of the E diurnal cause oversal t Greenw GS RT univers UF RT	Time defined by the rotational motion carth and determined from the apparent motions which reflect this rotation; beof variations in the rate of rotation, unime is not rigorously uniform. Also called ich mean time.  time  . universal time ephemeris time time synchronization  se  metagalaxy big bang cosmology celestial bodies cosmology	UF UGV (vehicles) GS surface vehicles	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
DEF of the E diurnal cause oversal t Greenw GS RT univers UF RT	Time defined by the rotational motion earth and determined from the apparent motions which reflect this rotation; beof variations in the rate of rotation, unime is not rigorously uniform. Also called ich mean time.  time  universal time ephemeris time time synchronization  the metagalaxy big bang cosmology celestial bodies cosmology cosmos	UF UGV (vehicles) GS surface vehicles . unmanned ground vehicles  RT autonomous navigation remotely piloted vehicles robotics roving vehicles surface navigation  unmanned spacecraft GS unmanned spacecraft . Echo 2 satellite . HEAO 1 . HEAO 2 . HEAO 3 . HOTOL launch vehicle . Pioneer Venus spacecraft	Mars 1 spacecraft Mars 2 spacecraft Mars 3 spacecraft Mars 4 Spacecraft Mars 5 spacecraft Mars 6 spacecraft Mars 7 spacecraft Mars 7 spacecraft Mars 7 spacecraft Mars Observer Mars Pathfinder Viking 1975 entry vehicle Viking spacecraft Viking 1 spacecraft Viking lander 1 Viking lander 1 Viking 2 spacecraft Viking lander 2 Viking lander 2 Viking lander spacecraft
DEF of the E diurnal cause oversal t Greenw GS RT univers UF RT	Time defined by the rotational motion farth and determined from the apparent motions which reflect this rotation; befor variations in the rate of rotation, unime is not rigorously uniform. Also called ith mean time.  time  universal time ephemeris time time synchronization  the metagalaxy big bang cosmology celestial bodies cosmology cosmos dark energy	UF UGV (vehicles) GS surface vehicles	Mars 1 spacecraft Mars 2 spacecraft Mars 3 spacecraft Mars 4 Spacecraft Mars 5 spacecraft Mars 6 spacecraft Mars 7 spacecraft Mars 7 spacecraft Mars Pathfinder Viking 1975 entry vehicle Viking 1 spacecraft Viking 1 spacecraft Viking 1 spacecraft Viking 1 ander 1 Viking 1 ander 1 Viking 2 spacecraft Viking lander 2 Viking lander 2 Viking lander 5 Viking lander 5 Viking lander 1 Viking lander 1
DEF of the E diurnal cause oversal t Greenw GS RT univers UF RT	Time defined by the rotational motion carth and determined from the apparent motions which reflect this rotation; befor variations in the rate of rotation, unime is not rigorously uniform. Also called ith mean time.  time  . universal time ephemeris time time synchronization  se metagalaxy big bang cosmology celestial bodies cosmology cosmos dark energy dark matter	UF UGV (vehicles) GS surface vehicles	Mars 1 spacecraft Mars 2 spacecraft Mars 3 spacecraft Mars 4 Spacecraft Mars 5 spacecraft Mars 6 spacecraft Mars 7 spacecraft Mars Pathfinder Viking 1975 entry vehicle Viking spacecraft Viking 1 spacecraft Viking 1 spacecraft Viking ander 1 Viking 2 spacecraft Viking ander 1 Viking 1 spacecraft Viking 1 viking 2 spacecraft Viking 1 viking 2 spacecraft Viking 1 viking 2 viking 1 Viking 1 viking 1 viking 2 Viking 1
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	Pioneer Venus 2 entry probes	saturation (chemistry)	ring wings
	Pioneer Venus 2 night probe	(, , , , , , , , , , , , , , , , , , ,	RT fixed wings
	Pioneer Venus 2 sounder probe	unsteady aerodynamics	swept wings
	solar probes	GS mechanics (physics)	wing planforms
	Helios 1	. fluid mechanics	
	Helios 2	fluid dynamics	up-converters
	Helios A	gas dynamics	DEF Parametric amplifiers characterized by
	Helios B	aerodynamics	the output signal frequencies being greater that
	Starprobe spacecraft	unsteady aerodynamics	the frequencies of the input signals.
	Sunblazer space probe	RT aerodynamic characteristics	GS frequency converters
	Venus probes	aerodynamic forces	. up-converters
	Magellan spacecraft (NASA)	aerodynamic stability	RT ∞ converters
	Mariner 1 space probe	aeroelasticity	parametric frequency converters
	Mariner 2 space probe	aeroservoelasticity	transformers
	Mariner 5 space probe	flutter	
	Mariner 10 space probe	flutter analysis	updrafts
	Pioneer Venus 2 spacecraft	unsteady flow	USE vertical air currents
	Pioneer Venus 2 entry probes	wing oscillations	
	Pioneer Venus 2 night probe		upgrading
	Pioneer Venus 2 sounder	unsteady flow	RT beneficiation
	probe	UF pulsating flow	concentrating
	Pioneer Venus 2 transporter bus	GS fluid flow	enrichment
	Venera satellites	. unsteady flow	experience
	Venera 2 satellite	oscillating flow	improvement
	Venera 3 satellite	RT aerodynamics	promotion
	Venera 4 satellite	critical flow	public relations
	Venera 5 satellite	∞ flow	purification
	Venera 6 satellite	flow stability	quality
	Venera 7 satellite	flow velocity	refining
	Venera 8 satellite	gas flow	
	Venera 9 satellite	heat transmission	uplinking
	Venera 10 satellite	hydrodynamic coefficients	DEF The transmission of signals fro
	Venera 11 satellite	laminar flow	ground terminals to satellites in telecommunic
	Venera 12 satellite	liquid flow	tion systems.
	Zond 1 space probe	mass flow	RT carrier to noise ratios
	Zond 3 space probe	method of characteristics	communication satellites
	Zond 4 space probe	multiphase flow	downlinking
	Zond 5 space probe	nonequilibrium flow	frequency reuse
	Zond 6 space probe	nonNewtonian flow	microwave transmission
	Zond 7 space probe	nonuniform flow	satellite transmission
	Zond 8 space probe	orifice flow	transmission efficiency
	Huygens probe	pipe flow	•
	MESSENGER (spacecraft)	pressure gradients	upper air
	Microwave Anisotropy Probe	single-phase flow	USE upper atmosphere
	Voyager 1 spacecraft	solids flow	
		steady flow	upper atmosphere
	Voyager 2 spacecraft	steady state	DEF The general term applied to the atm
	. technology feasibility spacecraft	steam flow	sphere above the troposphere. Used for upp
	. Zond space probes	Strouhal number	air.
	Zond 1 space probe	subcritical flow	UF upper air
	Zond 2 space probe	supercritical flow	GS Earth atmosphere
	Zond 3 space probe	turbulence	. upper atmosphere
	Zond 4 space probe		Earth ionosphere
	Zond 5 space probe	uniform flow	E region
	Zond 6 space probe	unsteady aerodynamics	E -1 layer
	Zond 7 space probe	unotoody state	E-2 layer
	Zond 8 space probe	unsteady state	sporadic E layer
RT	artificial satellites	RT ∞ equilibrium	lower ionosphere
	autonomous docking	fluid dynamics	D region
	communication satellites	metastable state	•
	geophysical satellites	nonequilibrium conditions	upper ionosphere
	gravity gradient satellites	stability	F region
	inflatable spacecraft	steady state	F 1 region
	interplanetary spacecraft	systems stability	F 2 region
	lunar landing modules	thermodynamics	exosphere
	lunar satellites		thermosphere
	lunar spacecraft	unstructured grids (mathematics)	turbopause
	manned spacecraft	(added May 1995)	RT acoustic sounding
	Mariner program	DEF In computational fluid dynamics, grid	aeronomy
	meteorological satellites	systems where the flowfield is discretized into	chemosphere
	military spacecraft	triangular-shaped elements for two-dimensional	field aligned currents
	reconnaissance spacecraft	fields, and tetrahedral elements for three-	heterosphere
	recoverable spacecraft	dimensional fields. In this type of grid system the	high altitude
	rendezvous spacecraft	grid points cannot be associated with grid lines.	homosphere
	reusable spacecraft	GS coordinates	meteor trails
	SIRS B satellite	. computational grids	meteorological balloons
	space capsules	unstructured grids	middle atmosphere
۰	spacecraft	(mathematics)	ozonosphere
-	Voyager project	RT computational fluid dynamics	plasmasphere
		finite element method	proton precipitation
		finite volume method	radiation belts
unsatu	ration (chemistry)	grid generation (mathematics)	satellite atmospheres
DEF	A state in which the atomic bonds of an	multigrid methods	Upper Atmosphere Research Satellit
organic	compound's chain or ring are not com-	structured grids (mathematics)	(UARS)
	satisfied (not saturated); unsaturation	,	•
	results in a double bond (as for olefins)	unswept wings	Upper Atmosphere Research Satellite
	le bond (as for the acetylens).	GS airfoils	(UARS)
RT	chemical bonds	. wings	(added August 1989)
	• chemistry	unswept wings	UF UARS (satellite)
	precipitation (chemistry)	infinite span wings	GS artificial satellites
۰	saturation	rectangular wings	. scientific satellites
-			

	Upper Atmosphere Research		wind (meteorology)		uranium
RT	Satellite (UARS)		wind direction		uranium isotopes
ΠI	upper atmosphere	upwind	schemes (mathematics)		. nuclides
upper i	onosphere		ed July 1992)		isotopes
GS	Earth atmosphere	GS	analysis (mathematics)		uranium isotopes
	. upper atmosphere Earth ionosphere		. numerical analysis approximation		uranium 234 metals
	upper ionosphere		upwind schemes (mathematics)		. actinide series
	F region	RT	computational fluid dynamics		uranium
	F 1 region F 2 region		Euler equations of motion finite difference theory		uranium isotopes
RT	E region		lilite difference trieory		uranium 234
	· ·	uracil		uranium	
upper s GS	tage rocket engines engines	GS	bases (chemical) . uracil	GS	chemical elements
as	. rocket engines		nitrogen compounds		. actinide series uranium
	upper stage rocket engines		. uracil		uranium isotopes
RT	Ares 1 upper stage		organic compounds		uranium 235
	Inertial Upper Stage multistage rocket vehicles		. cyclic compounds . heterocyclic compounds		. nuclides isotopes
	spacecraft configurations		pyrimidines		uranium isotopes
	spinning solid upper stage		uracil		uranium 235
	stage separation	RT	alloxan uridylic acid		metals . actinide series
upper s	urface blowing		andylic dold		uranium
	Use of jet blowing on the upper surface	uranium			uranium isotopes
of airfoil	s to create variations in pressure distri-	GS	chemical elements . actinide series	DT	uranium 235
GS	blowing		. uranium	RT	nuclear fuels
	. upper surface blowing		uranium isotopes	uranium	n 238
RT	aerodynamic characteristics		uranium 232	GS	chemical elements
	aircraft configurations circulation control airfoils		uranium 233 uranium 234		. actinide series uranium
	lift		uranium 235		uranium isotopes
۰	surfaces		uranium 238		uranium 238
	under surface blowing		metals . actinide series		. nuclides
upper s	urface blown flaps		. uranium		isotopes radioactive isotopes
GS	airfoils		uranium isotopes		uranium 238
	. flaps (control surfaces) externally blown flaps		uranium 232		uranium isotopes
	upper surface blown flaps		uranium 233 uranium 234		uranium 238 metals
	control surfaces		uranium 235		. actinide series
	. flaps (control surfaces) externally blown flaps	DT	uranium 238		uranium
			fissionable materials		
		RT			uranium isotopes
RT	upper surface blown flaps aircraft stability	ni	jet membrane process nuclear fuels	RT	uranium 238 nuclear fuels
RT	upper surface blown flaps aircraft stability blowing	ni	jet membrane process		uranium 238 nuclear fuels
RT	upper surface blown flaps aircraft stability blowing boundary layer control		jet membrane process nuclear fuels uranium plasmas	uranium	uranium 238 nuclear fuels n alloys
RT	upper surface blown flaps aircraft stability blowing	uranium	jet membrane process nuclear fuels uranium plasmas		uranium 238 nuclear fuels n alloys alloys
	upper surface blown flaps aircraft stability blowing boundary layer control lift augmentation	uranium	jet membrane process nuclear fuels uranium plasmas 1 232 chemical elements . actinide series	<b>uranium</b> GS	uranium 238 nuclear fuels n alloys alloys . uranium alloys nuclear fuel elements
۰	upper surface blown flaps aircraft stability blowing boundary layer control lift augmentation lift devices surfaces	uranium	jet membrane process nuclear fuels uranium plasmas 1 232 chemical elements . actinide series uranium	<b>uranium</b> GS	uranium 238 nuclear fuels n alloys alloys . uranium alloys
。 Upper \	upper surface blown flaps aircraft stability blowing boundary layer control lift augmentation lift devices surfaces	uranium	jet membrane process nuclear fuels uranium plasmas 1 232 chemical elements . actinide series	<b>uranium</b> GS RT	uranium 238 nuclear fuels n alloys alloys . uranium alloys nuclear fuel elements
Upper \USE	upper surface blown flaps aircraft stability blowing boundary layer control lift augmentation lift devices surfaces Volta Burkina	uranium	jet membrane process nuclear fuels uranium plasmas  1 232 chemical elements . actinide series uranium uranium	<b>uranium</b> GS RT	uranium 238 nuclear fuels n alloys alloys . uranium alloys nuclear fuel elements nuclear fuels n carbides actinide series compounds
Upper \USE	upper surface blown flaps aircraft stability blowing boundary layer control lift augmentation lift devices surfaces Volta Burkina	uranium	jet membrane process nuclear fuels uranium plasmas  1 232 chemical elements . actinide series . uranium uranium isotopes uranium 232 . nuclides isotopes	uranium GS RT uranium	uranium 238 nuclear fuels n alloys alloys . uranium alloys nuclear fuel elements nuclear fuels n carbides actinide series compounds . uranium compounds
Upper \USE	upper surface blown flaps aircraft stability blowing boundary layer control lift augmentation lift devices surfaces Volta Burkina	uranium	jet membrane process nuclear fuels uranium plasmas  1 232 chemical elements . actinide series . uranium uranium uranium isotopes uranium 232 . nuclides isotopes radioactive isotopes	uranium GS RT uranium	uranium 238 nuclear fuels n alloys alloys . uranium alloys nuclear fuel elements nuclear fuels n carbides actinide series compounds . uranium compounds uranium carbides
Upper \USE	upper surface blown flaps aircraft stability blowing boundary layer control lift augmentation lift devices surfaces  folta Burkina  ng cold pressing cold working forming techniques	uranium	jet membrane process nuclear fuels uranium plasmas  1 232 chemical elements . actinide series . uranium uranium isotopes uranium 232 . nuclides isotopes	uranium GS RT uranium	uranium 238 nuclear fuels n alloys alloys . uranium alloys nuclear fuel elements nuclear fuels n carbides actinide series compounds . uranium compounds
Upper \USE	upper surface blown flaps aircraft stability blowing boundary layer control lift augmentation lift devices surfaces  Volta Burkina  ng cold pressing cold working forming techniques hot isostatic pressing	uranium	jet membrane process nuclear fuels uranium plasmas  1 232 chemical elements . actinide series . uranium uranium isotopes uranium 232 . nuclides . isotopes radioactive isotopes uranium 232 uranium 232 uranium 232 uranium isotopes	uranium GS RT uranium GS	uranium 238 nuclear fuels n alloys alloys alloys . uranium alloys nuclear fuel elements nuclear fuels n carbides actinide series compounds . uranium carbides carbon compounds . carbides . uranium carbides . carbides
Upper \USE	upper surface blown flaps aircraft stability blowing boundary layer control lift augmentation lift devices surfaces  Volta Burkina  ng cold pressing cold working forming techniques hot isostatic pressing hot pressing	uranium	jet membrane process nuclear fuels uranium plasmas  1 232 chemical elements . actinide series . uranium uranium isotopes uranium 232 . nuclides . isotopes radioactive isotopes uranium 232 uranium 232 uranium 232 uranium 232 uranium isotopes uranium 232 uranium 232 metals	uranium GS RT uranium GS	uranium 238 nuclear fuels n alloys alloys alloys . uranium alloys nuclear fuel elements nuclear fuels n carbides actinide series compounds . uranium compounds . uranium carbides carbon compounds . carbides . carbides . carbides . caranium carbides ceramic nuclear fuels
Upper \USE	upper surface blown flaps aircraft stability blowing boundary layer control lift augmentation lift devices surfaces  Volta Burkina  ng cold pressing cold working forming techniques hot isostatic pressing	uranium	jet membrane process nuclear fuels uranium plasmas  1 232 chemical elements . actinide series . uranium uranium isotopes uranium 232 . nuclides . isotopes radioactive isotopes uranium 232 uranium 232 uranium 232 uranium isotopes	uranium GS RT uranium GS	uranium 238 nuclear fuels n alloys alloys alloys . uranium alloys nuclear fuel elements nuclear fuels n carbides actinide series compounds . uranium carbides carbon compounds . carbides . uranium carbides . carbides
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Upper \USE	upper surface blown flaps aircraft stability blowing boundary layer control lift augmentation lift devices surfaces  Volta Burkina  ng cold pressing cold working forming techniques hot isostatic pressing hot working pressing (forming) stamping	uranium	jet membrane process nuclear fuels uranium plasmas  1 232 chemical elements . actinide series . uranium uranium isotopes uranium 232 . nuclides . isotopes radioactive isotopes uranium isotopes uranium 232 uranium isotopes uranium 232 uranium 232 metals . actinide series . uranium uranium uranium isotopes uranium uranium	uranium GS RT uranium GS RT	nuclear fuels nalloys alloys alloys alloys uranium alloys nuclear fuel elements nuclear fuels nacinide series compounds uranium compounds uranium carbides carbon compounds carbides uranium carbides carbon compounds uranium carbides carbon compounds
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Upper NUSE  upsettii RT  upstrea RT  upwellir USE  upwellir DEF	upper surface blown flaps aircraft stability blowing boundary layer control lift augmentation lift devices surfaces  Volta Burkina  ng cold pressing cold working forming techniques hot isostatic pressing hot pressing hot working pressing (forming) stamping  m air currents water currents wind direction  downwash oraft interference drag interference lift  g upwelling water  The process by which water rises from	uranium GS uranium	jet membrane process nuclear fuels uranium plasmas  1 232 chemical elements . actinide series . uranium . uranium isotopes uranium 232 . nuclides . isotopes radioactive isotopes uranium 232 . uranium 232 . uranium 232 . uranium isotopes uranium 232 . uranium isotopes uranium 232 . uranium isotopes uranium isotopes uranium isotopes uranium 233 . uranium isotopes uranium isotopes uranium isotopes uranium 233 . nuclides . isotopes radioactive isotopes uranium 233 . uranium 233 . uranium 233 . uranium 233 metals . actinide series . uranium 233 metals . actinide series . uranium 233 metals . actinide series . uranium	uranium GS RT uranium GS RT uranium GS	nuclear fuels nalloys alloys alloys alloys alloys nuclear fuel elements nuclear fuel elements nuclear fuels nacarbides actinide series compounds uranium carbides carbon compounds carbides actinides ruclear fuels nuclear fuel elements nuclear fuel elements nuclear fuel elements nuclear fuel elements nuclear fuels actinide series compounds uranium carbides ceramic nuclear fuels nuclear fuel elements nuclear fuels actinide series compounds uranium fluorides uranium oxides ceramic nuclear fuels chemical compounds nuclear fuels actinide series compounds uranium compounds uranium compounds nuclear fuels actinide series compounds uranium compounds uranium compounds uranium fluorides halogen compounds fluorine compounds
upstrea RT upwash RT upwellir USE upwellir USE upwellir	icrurents water currents water currents wind direction  downwash oraft interference lift  g  upwelling water  The process by which water rises from er to a shallower depth. Used for up- upwelling atmospheric circulation  lift augmentation lift devices surfaces  dolta  Burkina  ng  cold pressing cold working forming techniques hot isostatic pressing hot working pressing (forming) stamping  m  air currents water currents wind direction	uranium GS uranium GS	jet membrane process nuclear fuels uranium plasmas  1 232 chemical elements . actinide series . uranium . uranium isotopes uranium 232 . nuclides . isotopes radioactive isotopes uranium 232 . uranium 232 metals actinide series . uranium . uranium isotopes uranium 232 metals . actinide series . uranium 232  chemical elements . actinide series . uranium . uranium 233 chemical elements . actinide series . uranium . uranium 233 . uranium . uranium 233 . nuclides . isotopes radioactive isotopes uranium 233 . uranium 233 . uranium 233 metals . actinide series . uranium 233 metals . actinide series . uranium . uranium isotopes uranium 233 metals . actinide series . uranium . uranium isotopes uranium 233 nuclear fuels	uranium GS RT uranium GS RT uranium GS	nuclear fuels nalloys alloys alloys alloys alloys nuclear fuel elements nuclear fuel elements nuclear fuels nacrbides actinide series compounds uranium carbides carbon compounds carbides carbides carbides carbides carbides carbides carbides uranium carbides ceramic nuclear fuels nuclear fuel elements nuclear fuel elements nuclear fuels nuranium carbides uranium carbides uranium carbides uranium carbides uranium carbides uranium compounds uranium compounds nuclear fuels nucl
Upper NUSE  upsettin RT  upstrea RT  upwash RT  upwellin USE  upwellin DEF a deepo	upper surface blown flaps aircraft stability blowing boundary layer control lift augmentation lift devices surfaces  Volta Burkina  ng cold pressing cold working forming techniques hot isostatic pressing hot working pressing (forming) stamping  m air currents water currents wind direction  downwash oraft interference drag interference lift  g upwelling water  The process by which water rises from er to a shallower depth. Used for up- upwelling atmospheric circulation coasts	uranium GS uranium GS	jet membrane process nuclear fuels uranium plasmas  232 chemical elements . actinide series . uranium . uranium isotopes . uranium 232 . nuclides . isotopes . radioactive isotopes . uranium 232 . uranium 232 . uranium isotopes . uranium isotopes . uranium 232 metals . actinide series . uranium . uranium isotopes . uranium 232  1233 chemical elements . actinide series . uranium . uranium isotopes . uranium 233 . nuclides . isotopes . uranium 233 metals . actinide series . uranium 233 metals . actinide series . uranium 233 metals . actinide series . uranium 233 metals . uranium 233 metals . actinide series . uranium 233 nuclear fuels	uranium GS RT uranium GS RT uranium GS	nuclear fuels  alloys alloys alloys alloys alloys nuclear fuel elements nuclear fuel elements nuclear fuels  actinide series compounds . uranium carbides carbon compounds . uranium carbides carbides . uranium carbides ceramic nuclear fuels nuclear fuel elements nuclear fuel elements nuclear fuel series compounds . uranium compounds actinide series compounds . uranium carbides . uranium fluorides . uranium fluorides . uranium fluorides . uranium fluorides actinide series compounds metal compounds metal compounds nuclear fuels fuels actinide series compounds uranium fluorides actinide series compounds fluorides actinide series compounds . uranium fluorides hallogen compounds . fluorides . metal fluorides . metal fluorides . uranium fluorides . halides . halides . fluorides
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	metal halides		hydrogen		surface vehicles
	metal fluorides		methane		
	uranium fluorides		planetary ionospheres Uranus (planet)	ureas GS	nitrogen compounds
uranium	ı isotopes		Cranas (planet)	0.0	. amides
GS	chemical elements	Uranus	rings		ureas
	. actinide series	DEF	3		difluorourea
	uranium		and similar to those of the planet Saturn.		thioureas
	uranium isotopes	GS	celestial bodies		thiuronium
	uranium 232		. planetary rings	RT	diuretics
	uranium 233	DT	Uranus rings		fertilizers
	uranium 234 uranium 235	RT	Jupiter rings		urine
	uranium 238		moonlets natural satellites	ureilite	e
	. nuclides		planetary structure		led December 1988)
	. isotopes		o rings	GS	
	uranium isotopes		Saturn rings		. meteorites
	uranium 232		Uranus (planet)		stony meteorites
	uranium 233		-		achondrites
	uranium 234		satellites		ureilites
	uranium 235	GS	celestial bodies		carbonaceous meteorites
	uranium 238		. natural satellites	DT	ureilites
	metals		Uranus satellites Ariel	RT	meteoritic diamonds
	. actinide series uranium		Cordelia	urethar	200
	uranium isotopes		Miranda	GS	esters
	uranium 232		Oberon	0.0	. Carbamates (tradename)
	uranium 233		Puck		urethanes
	uranium 234		Titania		poisons
	uranium 235		Umbriel		. pesticides
	uranium 238				insecticides
		urban a			Carbamates (tradename)
uranium		USE	cities	DT	urethanes
GS	actinide series compounds . uranium compounds	urbon e	lovelenment	RT	cyanates
		RT	levelopment cities	uric ac	id
	uranium oxides chalcogenides	n i	communities	GS	acids
	. oxides		o development	ao	. uric acid
	metal oxides		economic development		fungicides
	uranium oxides		industrial areas		. xanthines
RT	ceramic nuclear fuels		land use		uric acid
	mixed oxides		megalopolises		nitrogen compounds
	nuclear fuels		operations research		. xanthines
			parks		uric acid
	plasmas		planning		organic compounds
GS	metals	۰	∘ plans		. cyclic compounds
	. uranium plasmas		regional planning		heterocyclic compounds
	particles		residential areas resources		purines
	. charged particles energetic particles		Starsite program		xanthines <b>uric acid</b>
	plasmas (physics)		technologies	RT	alloxan
	metallic plasmas		toormologico		alloxari
	uranium plasmas	urban p	planning	uridylic	acid
	. corpuscular radiation		planning	GS	acids
	energetic particles		regional planning		. uridylic acid
	plasmas (physics)		urban planning		organic compounds
	metallic plasmas	RT	census		. nucleotides
	uranium plasmas		cities		. uridylic acid
RT	magnetohydrodynamics		communities		. organic phosphorus compounds
	plasma composition		heat islands		uridylic acid
	plasma physics		highways land management		phosphorus compounds . organic phosphorus compounds
	radioactive materials uranium		land use		uridylic acid
	diamani		parks		. phosphates
Uranus	(planet)		public health		uridylic acid
GS	celestial bodies		recreation	RT	amino acids
	. planets		social factors		nucleic acids
	. gas giant planets		sociology		uracil
	Uranus (planet)		Starsite program		
RT	Ariel		streets	urinaly	
	Cordelia			GS	chemical tests
	Miranda		esearch		. chemical analysis
	Oberon	RT	cities	DT	urinalysis
	Puck		communities land use	RT	diabetes mellitus physiological tests
	Titania Umbriel		recreation		urine
	Uranus atmosphere		social factors		unne
	Uranus rings		streets	urinatio	on
	Voyager 2 spacecraft			UF	micturition
	) U	urban t	ransportation	RT	diuresis
	atmosphere	GS	transportation		urine
DEF	The atmosphere of the planet Uranus.		urban transportation		water balance
GS	environments	RT	automated guideway transit vehicles		
	. extraterrestrial environments		automated mixed traffic vehicles	urine	la a de collectual a
	planetary environments		automated transit vehicles	GS	body fluids
	planetary atmospheres		industrial areas		. urine
RT	Uranus atmosphere aerospace environments		megalopolises rail transportation		wastes . liquid wastes
	aerospace environments atmospheres		rani transportation rapid transit systems		urine
	gas giant planets		regional planning		. metabolic wastes
	J J P		- J F		

### urography

.. 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 UF application USE satellite communications ships GS urination utilization . coal utilization urography Utah . geothermal energy utilization ĞS 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 urolithiasis . . laser drilling 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 user manuals (computer programs) T-39 aircraft 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 . Z-37 aircraft RT computer programs RT ∞ aircraft programs 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

S-67 helicopter

X-22 aircraft

V hand

. . X-22A aircraft USE extremely high frequencies ... H-17 helicopter XC-142 aircraft . . . heavy lift helicopters . . XV-4 aircraft V grooves . CH-62 helicopter GS arooves XV-11A aircraft . . . light helicopters V grooves . VZ-2 aircraft . OH-4 helicopter riblets . X-32 aircraft OH-5 helicopter machining RT . X-35 aircraft . . . . OH-6 helicopter micromachining . XV-3 aircraft . OH-58 helicopter . XV-5 aircraft notches . . military helicopters XV-8A aircraft . AH-1G helicopter V-1 missile  $RT \, \infty \, aircraft$ AH-1S helicopter GS missiles antisubmarine warfare aircraft AH-1W helicopter surface to surface missiles attack aircraft ... AH-63 helicopter V-1 missile commercial aircraft AH-64 helicopter liquid propellant rocket engines convertible fan-shaft engines BO-105 helicopter pulsejet engines drone aircraft CH-3 helicopter fan in wing aircraft CH-21 helicopter V-2 missile fighter aircraft CH-34 helicopter GS missiles ground effect machines . CH-46 helicopter . ballistic missiles heliports CH-47 helicopter V-2 missile hovering . CH-54 helicopter RT liquid propellant rocket engines jet aircraft CH-62 helicopter ∞ military aircraft H-19 helicopter V-3 aircraft passenger aircraft H-43 helicopter USE XV-3 aircraft reconnaissance aircraft H-53 helicopter research aircraft H-54 helicopter H-56 helicopter V-4 aircraft short haul aircraft USE XV-4 aircraft STOVL aircraft H-60 Helicopter tilt wing aircraft transition flight HC-3 helicopter V-5 aircraft HH-43 helicopter USE XV-5 aircraft transport aircraft HH-65 helicopter utility aircraft OH-4 helicopter V-9 aircraft vertical flight OH-5 helicopter USE XV-9A aircraft Weser aircraft OH-6 helicopter Westland aircraft OH-13 helicopter V-22 aircraft (added September 1990) OH-23 helicopter vacancies (crystal defects) A Bell/Boeing developed tilt rotor air-OH-58 helicopter Vacent sites in a crystal structure due craft, nicknamed "Osprey", and designed for P-531 helicopter to the absence of an atom or ion from its normal light multiservice use. Used for Osprey aircraft. QH-50 helicopter structural position. Osprey aircraft S-67 helicopter GS defects GS Bell aircraft SA-321 helicopter . crystal defects V-22 aircraft SA-330 helicopter . . point defects Boeing aircraft SH-3 helicopter ... vacancies (crystal defects) V-22 aircraft SH-4 helicopter ... Frenkel defects Sikorsky Whirlwind helicopter V/STOL aircraft antisite defects UH-1 helicopter . rotary wing aircraft . . tilt rotor aircraft binding energy UH-2 helicopter holes (electron deficiencies) . . V-22 aircraft UH-34 helicopter square wells UH-60A helicopter RT ∞ aircraft helicopters . . . . UH-61A helicopter  $\infty \, \text{military aircraft}$ Westland Whirlwind helicopter vaccines . . XV-9A aircraft GS vaccines rotary wings . . . rigid rotor helicopters . . . . CH-3 helicopter . inoculum Tilt Rotor Research Aircraft Program acquired immunodeficiency syndrome tilt wing aircraft F-28 helicopter antibodies tilting rotors antigens . . . XH-51 helicopter S-58 helicopter antiserums V/STOL aircraft DEF A hybrid form of heavier-than-air air-craft that is capable, by virtue of one or more S-61 helicopter bacteriology biocompatibility tandem rotor helicopters diseases horizontal rotors or units acting as rotors, of taking off, hovering, and landing as, or in a fashion similar to, a helicopter, and once aloft, . CH-46 helicopter drugs CH-47 helicopter epidemiology H-25 helicopter human immunodeficiency virus and moving forward, capable, by means of a EH-101 helicopter inoculation mechanical conversion of one sort or another, of TH-55 helicopter 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 and steep gradient aircraft. ... V-22 aircraft vacillation convertaplanes XV-15 aircraft steep gradient aircraft . short takeoff aircraft RT dithers human reactions GS V/STOL aircraft . . Aladin 2 aircraft . CL-84 aircraft Breguet 940 aircraft . DO-31 aircraft Breguet 941 aircraft . FV-12A aircraft . . C-8A augmentor wing aircraft 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 . . low vacuum . . autogyros . vertical takeoff aircraft . . flying platforms . . SC-1 aircraft . . . Avian 2/180 autogiro . ultrahigh vacuum . . helicopters aerospace environments . . . Alouette helicopters . . VJ-101 aircraft boundary layer control evacuating (vacuum) . SA-330 helicopter VZ-8 aircraft SE-3160 helicopter . . X-13 aircraft aetters . . . 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

GS switches

. electric switches

vacuum arc 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

1040

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

. meltina

. 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

spectroscopy GS

. 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 RT

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 Chuka mathad
HI≪	aircraft	design analysis	Van Slyke method
	reconnaissance aircraft	economic analysis	GS chemical tests
	tanker aircraft	∞ engineering	. chemical analysis
validatia		incentive techniques	gas analysis
validatio	proving	life cycle costs	Van Slyke method guantitative analysis
USE	proving	management planning	Van Slyke method
validity		quality control	
-	accentability	reliability engineering	RT ∞ methodology
RT	acceptability	standards	vanadates
	accuracy	total quality management	
	adequacy		
	consistency	valves	. vanadates
	correlation	UF hydraulic valves	calcium vanadates RT metal oxides
	existence mathematical models	GS valves	
		. automatic control valves	vanadium oxides
	precision	pressure regulators	vanadium
	quality	relief valves	GS chemical elements
	reliability	. butterfly valves	. vanadium
	simulation	dampers (valves)	
	standards	. cocks	vanadium isotopes metals
	statistical tests	. control valves	. transition metals
	variability	. fuel valves	v <b>anadium</b>
Vallauria	aircraft	. gas valves	
Valkyrie	B-70 aircraft	. heart valves	vanadium isotopes
USL	D-70 all Clait	artificial heart valves	RT vanadium alloys
valleys		. solenoid valves	vanadium alloys
UF	intermontane floors	RT balls	GS alloys
Oi	rift valleys	chokes (restrictions)	. vanadium alloys
	rills	closures	RT aluminum alloys
GS	valleys	diverters	microstructure
as	. Coachella Valley (CA)	engine parts	titanium alloys
	. Death Valley (CA)	hydraulic equipment	vanadium
	. Imperial Valley (CA)	packings (seals)	variaulum
	. Magdalena-Cauca Valley (Colombia)	pneumatic circuits	vanadium carbides
		pneumatic equipment	GS carbon compounds
	Palo Verde Valley (CA)	seals (stoppers)	. carbides
	. Potomac River Valley (MD-VA-WV)	traps	vanadium carbides
	Sacramento Valley (CA)	water hammer	
	San Joaquin Valley (CA)		vanadium compounds . v <b>anadium carbides</b>
	Shenandoah Valley (VA)	1/	. variacium carbices
	. St Lawrence Valley (North America)	Vampire aircraft	vanadium compounds
ОТ	. Tennessee Valley (AL-KY-TN)	USE DH 115 aircraft	GS vanadium compounds
RT	canyons		. vanadates
	Delaware River Basin (US)	Vampire MK 35 aircraft	calcium vanadates
	erosion	GS attack aircraft	
	meanders	. fighter aircraft	. vanadium carbides
	Missouri River (US)	Vampire MK 35 aircraft	. vanadium oxides
	ravines	Hawker Siddeley aircraft	. vanadyl compounds
	rivers	. Vampire MK 35 aircraft	RT ∞ chemical compounds
	structural basins	jet aircraft	∞ Group 5B compounds
	Susquehanna River Basin	. Vampire MK 35 aircraft	∞ metal compounds
	(MD-NY-PA)	single engine aircraft	
	topography	. Vampire MK 35 aircraft	vanadium isotopes
	wadis	RT ∞ aircraft	GS chemical elements
	watersheds	bomber aircraft	. nuclides
		Harrier aircraft	isotopes
	exercise		vanadium isotopes
	The procedure of raising the pressure	Van Allen radiation belts	. vanadium
	asapharynx by forcible expiration with	USE radiation belts	vanadium isotopes
	th closed and nostrils pinched, in order	OSL Tadiation beits	metals . transition metals
	the eustachian tubes. Used for valsalva		
maneuv		Van Biesbroeck star	vanadium v <b>anadium isotopes</b>
UF	Valsalva maneuver	GS celestial bodies	variaulum isotopes
RT	respiration	. stars	vanadium avidas
Valaalua		late stars	vanadium oxides
	maneuver	cool stars	GS chalcogenides
USE	Valsalva exercise	M stars	. oxides
		Van Biesbroeck star	metal oxides
value	.1.		vanadium oxides
GS	value	Van de Graaff accelerators	vanadium compounds
	. Q values (nuclear physics)	DEF Electrostaic machines in which an	. vanadium oxides
RT	amount	electrical charge is carried into the high voltage	RT thermochromic coatings
	assessments	terminal by a belt made of insulating materials	vanadates
	costs	moving at high speed. The particles are then	
	damage assessment	accelerated along a discharge path through a	vanadyl compounds
	estimates	vacuum tube by the potential difference between	GS vanadium compounds
	a a rupa a tun a	the insulated terminal and the gorunded end of	∨anadyl compounds
	estimating	me modiated terminal and the gordinaed end of	RT ∞ chemical compounds
	evaluation	the accelerator	
	evaluation figure of merit	the accelerator.	∞ metal compounds
	evaluation figure of merit level (quantity)	GS particle accelerators	∞ metal compounds
	evaluation figure of merit level (quantity) norms	GS particle accelerators . Van de Graaff accelerators	∞ metal compounds  vanadyl radical
	evaluation figure of merit level (quantity) norms ranking	GS particle accelerators . Van de Graaff accelerators RT ∞ accelerators	∞ metal compounds  vanadyl radical  GS ions
	evaluation figure of merit level (quantity) norms	GS particle accelerators . Van de Graaff accelerators	∞ metal compounds  vanadyl radical  GS ions . molecular ions
	evaluation figure of merit level (quantity) norms ranking technology assessment	GS particle accelerators . Van de Graaff accelerators RT ∞ accelerators electron accelerators	∞ metal compounds  vanadyl radical  GS ions . molecular ions . vanadyl radical
	evaluation figure of merit level (quantity) norms ranking technology assessment	GS particle accelerators . Van de Graaff accelerators RT ∞ accelerators electron accelerators  Van der Waals forces	∞ metal compounds  vanadyl radical  GS ions . molecular ions . vanadyl radical . positive ions
<b>value e</b> i RT	evaluation figure of merit level (quantity) norms ranking technology assessment  ngineering concurrent engineering	GS particle accelerators . Van de Graaff accelerators RT ∞ accelerators electron accelerators  Van der Waals forces RT dipole moments	∞ metal compounds  vanadyl radical  GS ions . molecular ions . vanadyl radical . positive ions cations
	evaluation figure of merit level (quantity) norms ranking technology assessment	GS particle accelerators . Van de Graaff accelerators RT ∞ accelerators electron accelerators  Van der Waals forces	∞ metal compounds  vanadyl radical  GS ions . molecular ions . vanadyl radical . positive ions

. vanadyl radical GS clothing phase diagrams . protective clothing ∞ phases vaneless diffusers vapor barrier clothing prevaporization RT compressors RT ∞ barriers solids  $\infty$  diffusers supercritical pressures life support systems exhaust diffusers vapors volatility pumps supersonic diffusers vapor deposition chemical vapor deposition vapor pressure vanes CVD (deposition) The pressure exerted by the molecules vanes deposition of a given vapor. For a pure confined vapor, it is GS . guide vanes vapor deposition that vapor's pressure on the walls of its contain-. . jet vanes ing vessel; and for a vapor mixed with other . . metalorganic chemical vapor wind vanes deposition vapors or gases, it is that vapor's contribution to RT airfoils . vacuum deposition the total pressure (i.e., its partial pressure). blades atomic layer epitaxy pressure compressor blades coating vapor pressure control surfaces coatings thermodynamic properties crystal growth fins . thermophysical properties impellers diamond films . vapor pressure nose fins electroless deposition Dalton law stator blades laser deposition flash point fuel tank pressurization tail assemblies metal vapors turbomachine blades metallizing Henry law humidity nanostructure growth windpower utilization pulsed laser deposition ultrapure metals windpowered generators interfacial tension windpowered pumps liquid-gas mixtures liquid-vapor interfaces vaporizers partial pressure Vanguard 1 satellite vaporizing artificial satellites Raoult law . geodetic satellites vapor generators
USE vaporizers sublimation Vanguard 1 satellite supercritical pressures . Vanguard satellites volatility . Vanguard 1 satellite vapor jets fluid jets GS vapor trails vanguard 2 launch vehicle vapor jets ÚSE contrails GS launch vehicles air jets . vanguard 2 launch vehicle gas flow vapor traps rocket vehicles GS iet flow traps . multistage rocket vehicles plasma jets vapor traps . vanguard 2 launch vehicle cold traps liquid propellant rocket engines getters vapor liquid equilibrium 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 artificial satellites layer on a slice of substrate single crystal matevaporizers . meteorological satellites rial by the vapor phase technique. UF vapor generators heating equipment . vaporizers Vanguard 2 satellite growth GS GS . Vanguard satellites . crystal growth . . Vanguard 2 satellite . . epitaxy . . evaporators boilers vapor phase epitaxy Vanguard 3 satellite atomic layer epitaxy cavity vapor generators GS artificial satellites colloidal generators crystal structure . geophysical satellites columns (process engineering) liquid phase epitaxy Vanguard 3 satellite condensers (liquefiers) liquid phases . Vanguard satellites gas generators vapor phase lubrication ... Vanguard 3 satellite generators (added August 1996) ∞ heaters DEF The use of an organic liquid that is vaporized into a flowing air stream directed to Vanguard project separators programs 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 devapors . 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. phase transformations Vanguard project GS lubrication . vaporizing X-405 engine vapor phase lubrication . . boiling . . . film boiling RT boundary lubrication Vanguard satellites lubrication systems . . . nucleate boiling artificial satellites ∞ sliding contact ... Leidenfrost phenomenon . Vanguard satellites squeeze films . . evaporation . . Vanguard 1 satellite tribology ... evapotranspiration Vanguard 2 satellite propellant evaporation . . Vanguard 3 satellite . . . transpiration vapor phases geodetic satellites gas phases . . flashing (vaporizing) geophysical satellites association reactions . . prevaporization RT International Geophysical Year . sublimation critical pressure ablation meteorological satellites gases gas-metal interactions concentrating vans gas-solid interfaces desalinization USE trucks hydrogen clouds distillation liquid phases evolution (liberation) vapor barrier clothing
DEF Impermeable garments used with resgasification liquid-gas mixtures heat of vaporization liquids

liquid-vapor interfaces

metal-gas systems

heating

∞ separation

pirators as life support systems in toxic environ-

ments (caustic chemicals, etc.).

spraying Latin square method stellar oscillations stripping (distillation) race factors surface reactions random variables variable stream control engines vapor deposition real variables DEF Advanced, moderate bypass-ratio turvaporizers social factors bofan configurations that use duct burner thrust variability augmentation and coannular nozzles for jet vapors volatility noise reduction. variable amplitude loading GS engines vapors (added September 1993) . aircraft engines DEF Gases whose temperatures are below . . variable stream control engines loads (forces) their critical temperatures, so that they can be . dynamic loads  $RT \, \infty \, control$ condensed to the liquid or solid state by increase . variable amplitude loading engine control of pressure alone. cyclic loads supersonic aircraft GS vapors supersonic nozzles load tests . cesium vapor ∞ loading variable cycle engines . metal vapors loading rate . . mercury vapor random loads variable sweep wings . . sodium vapor M wings stress cycles UF . water vapor ogee wings cavity vapor generators variable area wings W wings combustion products USE trailing edge flaps airfoils condensates . wings exhaust gases . variable sweep wings variable cycle engines fumes planforms gases GS . wing planforms engines haze detection ... variable sweep wings . aircraft engines hydrogen clouds . variable cycle engines arrow wings liquid-vapor equilibrium Boeing 733 aircraft coaxial nozzles prevaporization convertible fan-shaft engines delta wings smoke supersonic aircraft F-111 aircraft vapor phases folding structures variable stream control engines vaporizers mission adaptive wings vaporizing variable geometry structures RT expandable structures ogee shape swept forward wings varactor diode circuits sweptback wings folding structures GS circuits inflatable structures varactor diode circuits variable thrust mission adaptive wings diodes GS thrust ∞ structures . variable thrust varactor diodes control rockets variable lift varactors high thrust jet control USE lift GS electronic equipment . diodes jet thrust variable mass systems . . semiconductor diodes low thrust kinetics GS ... varactor diodes low thrust propulsion . variable mass systems . solid state devices microthrust equations of motion . . semiconductor devices rocket thrust ∞ mass balance .. varactor diodes throttling mass distribution junction diodes thrust augmentation systems parametric diodes thrust control varistors thrust termination variable pitch propellers thrust vector control HE constant speed propellers varactors USE varactor diodes GS propellers ∞ variance variable pitch propellers (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) A measure of the precision of a meavariability RT helicopter propeller drive RT consistency pitch (inclination) continuity convergence surement based on summming the squares of Variable Specific Impulse Magnetoplasma correlation the deviations from individual determinations covariance (added December 2000) from the average and dividing by the degrees of ∞ dispersion VASIMR (propulsion system) freedom. eccentricity RT analysis of variance degrees of freedom multivariate statistical analysis ∞ equilibrium variable stars factor analysis GS celestial bodies heterogeneity variance (statistics) . stars linearity . . variable stars nonlinearity variance (statistics) . . . cataclysmic variables periodic variations cepheid variables GS statistical analysis quality 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 . . . covariance . . . Mira variables sampling . Omicron Ceti star . . . orthogonality stability . . . novae . . . regression analysis standard deviation . dwarf novae . regression coefficients standardization . . . . Hercules nova RT confidence limits validity semiregular variable stars correlation ∞ variable Cramer-Rao bounds . . . supernovae variance (statistics) . . . . supernova 1987A distribution moments . . . symbiotic stars experiment design variable (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) factors . T Tauri stars factor analysis binary stars Gauss-Markov theorem companion stars goodness of fit eclipsing binary stars heterogeneity complex variables periodic variations RT homogeneity dependent variables

solar oscillations

stellar mass ejection

stellar mass

form factors

independent variables

kriging

moments

mean

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 calculus of variations . rocket engines (VERTICAL ATTITUDE TAKEOFF AND . . electric rocket engines  $\infty$  dynamics LANDING AIRCRAFT)

DEF Vertical attitude takeoff and landing aircraft. Used for vertical attitude takeoff-landing equilibrium methods . . . plasma engines irreversible processes . VASIMR (propulsion system) Onsager phenomenological coefficient magnetic nozzles aircraft and XBQM-180A aircraft. Rayleigh-Ritz method plasma heating vertical attitude takeoff-landing aircraft plasma propulsion XBQM-180A aircraft variations radio frequency heating spacecraft propulsion RT ∞ aircraft fluctuation 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 . twenty-seven day variation . vasoconstrictor drugs
. . hypertensin
. . serotonin . computers wind variations . . digital computers alternatives ... VAX computers asymmetry angiotensins .... 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 ... VAX computers congestion gradients . . . . VAX-11 series computers reflexes micropulsations ..... VAX-11/780 computer vasodilator agents perturbation revisions VC-10 aircraft vasodilator agents substitutes Vickers 1100 aircraft (added August 2004) Vickers VC-10 aircraft surges DEF Drugs used to cause dilation of the BAC aircraft variometers blood vessels. . VC-10 aircraft DEF Instruments for comparing magnetic GS drugs 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 VC-10 aircraft geomagnetism vasomotor nervous system transport aircraft USE nervous system VC-10 aircraft DEF Two electrode semiconductor devices 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) . calculus are used pharmacologically as renal agents, varnishes fillers vasoconstrictor agents, and hemostatics. .. vector analysis finishes GS neurotransmitters . . . collinearity vasopressins . . . coplanarity primers (coatings) organic compounds ... curl (vectors) protective coatings . peptides . vorticity vasopressins . real variables sealers . . vector analysis sprayed coatings secretions . . . collinearity . endocrine secretions

. . hormones . . . pituitary hormones

hemostatics

metabolism

pituitary gland

renal function

diuresis

vasopressins

. . . coplanarity

. . . . vorticity

. . collinearity

. . coplanarity

. . curl (vectors)

geometry

. . . curl (vectors)

vector analysis

vascular system

USE cardiovascular system

DEF A high-power, RF-driven magneto-plasma rocket system capable of I(sp) thrust

modulation at constant power. The VASIMR

VASIMR (propulsion system) (added November 2000)

. . 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 USE vector spaces ecology . vectorcardiography fertilizers electrocardiography vector control gravitropism phonocardiography directional control USE hydroponics vectors (mathematics)
DEF Quantities such as force, velocity, or irrigation photosynthetically active radiation vector currents RT current algebra acceleration, which have both magnitude and direction at each point in space, as opposed to phytochrome parity plant physiology radioactive decay plant roots scalar which has magnitude only. Such quantities may be represented geometrically by an superconductivity plant stress 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 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 international cooperation crop inventories . . . . . 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 . vector processing (computers) radiometric correction 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 codina 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) 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 locusts Stokes theorem (vector calculus) normalized difference vegetation Arcas rocket vehicles Arcon rocket vehicle U spin space index .. vectors (mathematics) oases Argo rocket vehicles plants (botany) Astrobee rocket vehicles . eigenvectors Atlas Agena launch vehicles

rain forests

resources

sea grasses

. . . state vectors

RT analysis (mathematics)

. . vorticity

Atlas launch vehicles

automated guideway transit vehicles

automated mixed traffic vehicles

Automated Transfer Vehicle time measurement veins automated transit vehicles GS anatomy velocity coupling automobiles circulatory system 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 velocity distribution Europa launch vehicles velocity fields flight test vehicles fills a crack or joint in a host rock. 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) galactic rotation rocks hypersonic vehicles Orr-Sommerfeld equations intraorbit transfer vehicles Vela satellites Pohlhausen method Juno launch vehicles GS 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 radiation measuring instruments velocity fields Marsokhod Mars roving vehicles 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 velocity drag force anemometers flow measurement 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 escape velocity hot-wire anemometers research vehicles exhaust velocity Hubble constant reusable launch vehicles flow velocity Hubble diagram rocket vehicles . solar wind velocity laser anemometers roving vehicles ground speed laser doppler velocimeters Saturn launch vehicles group velocity
high speed
hypersonic speed
landing 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 sonic anemometers orbital velocity 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 coatings kinematics finishes vehicular tracks kinetics laminates loading rate masonry RT idlers ∞ motion surface vehicles suspension systems (vehicles) perceptual time constant Venera 2 satellite

pressure measurement relativistic effects

treads

solitary waves

GS artificial satellites

Soviet satellites

tracked vehicles

∞ tracks

. . 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

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#### 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 6 satellite

#### Venera 7 satellite

GS artificial satellites

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

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

artificial satellites

. Soviet satellites

. . Venera satellites

... Venera 12 satellite interplanetary spacecraft

. Venus probes

Venera satellites

. Venera 12 satellite

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 3 satellite Venera 4 satellite

Venera 6 satellite

Venera 9 satellite

Venera 11 satellite

. space probes

... Venera satellites Venera 2 satellite

. . . . Venera 3 satellite

. . . . Venera 5 satellite

Venera 2 satellite

Venera 7 satellite Venera 8 satellite

. . Venera 10 satellite

. Venera 12 satellite unmanned spacecraft

. . Venus probes

Venera 4 satellite

	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 Venera 11 satellite	vents	ionopause planetary ionospheres
	Venera 11 satellite	GS outlets	planetary meteorology
RT		. vents	Venera 11 satellite
	Vega project	RT annular ducts	Venera 12 satellite
	roga project	apertures	Venus orbiting imaging radar
Venezi	ano model	cavities	(spacecraft)
GS	models	chimneys	,
ao	. mathematical models	cooling systems	Venus clouds
	Veneziano model	ducts	GS environments
RT	elementary particle interactions	evacuating (vacuum)	. extraterrestrial environments
	, , , , , , , , , , , , , , , , , , , ,	exhaust systems	planetary environments
Venezu	ela	flues	planetary atmospheres
GS	nations	gates (openings)	Venus atmosphere
ao	. Venezuela	louvers ∞ nozzles	<b>Venus clouds</b> RT atmospheric models
RT	South America	openings	cloud cover
		ports (openings)	cloud physics
Venn d	iagrams	relief valves	∞ clouds
GS	diagrams	slotted wind tunnels	greenhouse effect
0.0	. Venn diagrams	ventilation	g
RT	analysis (mathematics)	ventilators	Venus fly trap rocket vehicle
	geometry	venting	GS rocket vehicles
	mathematical logic	windows (apertures)	. sounding rockets
	, and the second		Venus fly trap rocket vehicle
Venom	aircraft	VentureStar launch vehicle	RT cosmic dust
	DH 112 aircraft	(added June 1999)	extraterrestrial matter
002	22	DEF Reusable single-stage-to-orbit launch	
ventilat	tion	vehicle employing linear aerospike engines, and	
RT	air conditioning	having a payload capacity roughly equivalent to	
111	air cooling	that of the Space Shuttle; developed in coordi	
	air filters	nation with the X-33 advanced technology dem	surface of Venus as well as information on the
	air flow	onstrator vehicle.	gravity field of the planet, nature of its inertia
	air intakes	GS aerospace vehicles . aerospace planes	composition and dynamics of its atmosphere
	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	reentry vehicles	RT Magellan project (NASA)
	draft (gas flow)	. 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	. aerospace planes	
	refrigerating	VentureStar launch vehicle	Venus probes
	temperature	RT aerospike engines	GS interplanetary spacecraft
	temperature control	commercial spacecraft	. Venus probes
	temperature distribution ventilators	X-33 reusable launch vehicle	Magellan spacecraft (NASA)
	venting	West 21 has	Mariner 1 space probe
	vents	Venturi tubes	. Mariner 2 space probe e . Mariner 5 space probe
	Vents	DEF Short tubes of smaller diameter in the	•
		middle than at the ends. When fluids flow	
	tion fans	through such tubes, the pressure decreases as the diameters become smaller, the amount of	·
RT	blowers cooling	decrease being proportional to the speed of flow	" B: 1/ 6 1 1 1
	9	and the amount of restriction.	Pioneer Venus 2 sounder probe
	cooling systems ducted fans	RT ∞ detectors	Pioneer Venus 2 transporter bus
	fan blades	flow measurement	Venera satellites
	ran blades ∞ fans	flowmeters	Venera 2 satellite
	ventilators	gas meters	Venera 3 satellite
		measuring instruments	Venera 4 satellite
	hawa.	orifices	Venera 5 satellite
ventilat RT	air ducts	pitot tubes	Venera 6 satellite
ΠI	air intakes	pressure gradients	Venera 7 satellite
	blowers	pressure measurement	Venera 8 satellite
	∞ diffusers	∞ tubes	Venera 9 satellite
	exhaust systems	velocity measurement	Venera 10 satellite
	ventilation		Venera 11 satellite
	ventilation fans	Venus (planet)	Venera 12 satellite
	vents	GS celestial bodies	Zond 1 space probe
		. planets	Zond 3 space probe Zond 4 space probe
venting	1	terrestrial planets Venus (planet)	Zond 4 space probe
RT	breathing vibration	RT planetary craters	Zond 6 space probe
111	cooling	Vega project	Zond 6 space probe
c	∞ discharge	Vega project Venera 8 satellite	Zond 8 space probe
	evacuating (vacuum)	Venera 10 satellite	unmanned spacecraft
	exhausting	Venera 11 satellite	. space probes
	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
c	∞ separation	. extraterrestrial environments	Mariner 5 space probe
	ventilation	planetary environments	Mariner 10 space probe

	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			bears
	Pioneer Venus 2 transporter bus	GS	nations		cats
	Venera satellites Venera 2 satellite		. United States		cattle
	Venera 2 satellite	RT	Lake Champlain Basin (NY-VT)		calves deer
	Venera 3 satellite		St Lawrence Valley (North America)		caribous
	Venera 5 satellite				goats
	Venera 6 satellite	Verneui	l process		horses
	Venera 7 satellite		Method of single-crystal growth in		marine mammals
	Venera 8 satellite		powder is dropped through an oxy-		dolphins
	Venera 9 satellite		n flame, falling molten on crystal seed.		manatees
	Venera 10 satellite	GS	growth . crystal growth		porpoises
	Venera 11 satellite Venera 12 satellite		Verneuil process		seals (animals) 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		engines		chimpanzees
	Zond 6 space probe		Rocket engines of small thrust used		baboons
	Zond 7 space probe		to obtain a fine adjustment in the		human beings
	Zond 8 space probe		and trajectory of a rocket vehicle just thrust cutoff of the last sustainer en-		monkeys
RT	Magellan project (NASA)				rodents
	Mariner program Mariner Venus 67 spacecraft		d used secondarily to add thrust to a or sustainer engine.		guinea pigs
	Mars probes		engines		hamsters mice
	outer planets explorers	0.0	. rocket engines		jerboas
	Sputnik 5 satellite		Vernier engines		knockout mice
	Venus orbiting imaging radar		control rockets		pocket mice
	(spacecraft)		SYNCOM apogee engines		rabbits
	Voyager project		. torpedo engines		rats
			Vernier engines		squirrels
	radar echoes		control rockets		ground squirrels
GS	echoes	RT	SYNCOM apogee engines electric rocket engines		dogs
	. radar echoes Venus radar echoes	111	electrostatic engines		sheep swine
	Venus rauai ecnoes		hybrid propellant rocket engines		wolves
Venus	Radar Mapper		internal combustion engines		reptiles
USE	Magellan spacecraft (NASA)		launch vehicles		lizards
			liquid propellant rocket engines		snakes
	Radar Mapper Project		MA-2 engine		turtles
USE	Magellan project (NASA)		MA-3 engine	RT	homeotherms
V			MA-5 engine		
	surface The surface features and/or composi-		microrocket engines		air currents
	the planet Venus.		restartable rocket engines solid propellant rocket engines	UF	updrafts fluid flow
GS	planetary surfaces		thrust vector control	GS	. gas flow
ao	. Venus surface		undst vector control		. air flow
RT	cloud cover	vernine			air currents
	extraterrestrial environments	USE	guanosines		vertical air currents
	Magellan project (NASA)			RT	atmospheric circulation
	Magellan spacecraft (NASA)		ue rocket vehicles		convection clouds
	planetary craters	GS	rocket vehicles		convection currents
	solar system		. single stage rocket vehicles		downbursts
	∞ surfaces		Veronique rocket vehicles . sounding rockets		lee waves
	terraforming topography		Veronique rocket vehicles		microbursts (meteorology)
	Venera 11 satellite	RT	liquid propellant rocket engines		mixing height soaring
	Venera 12 satellite		vehicles		turbulence
	Venus orbiting imaging radar				wind (meteorology)
	(spacecraft)	versatil			winds aloft
		RT	compatibility		
	communication		flexibility		attitude takeoff-landing aircraft
GS	communicating . verbal communication	vertebra	20	USE	VATOL aircraft
	conversation	GS	anatomy	vertical	distribution
RT	acoustics	ao	. musculoskeletal system	GS	distribution (property)
	languages		bones	do	. 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)		l column		pressure distribution
verifica	tion (proving)	USE	spine		radiation distribution
	proving	vertebra	ates		temperature distribution
JUL	F 19	GS	animals		wind profiles
vermio	ulite	40	. vertebrates	vertical	fins
DEF	An aggregate used in lightweight insu-		amphibia	USE	
lating of	oncrete, formed by heating and expand-		frogs		
ing a n	nicaceous mineral.		birds	vertical	
GS			chickens	RT	balloon flight
	. vermiculite		pigeons		climbing flight
	minerals		turkeys	٥	oflight
C-T	. 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 landing

GS

vertical landing

aircraft landing spacecraft landing

STOVL aircraft touchdown VATOL aircraft

#### vertical motion

RT falling ∞ motion touchdown

# vertical motion simulators

DEF Vibration machines which produce mechanical oscillations parallel to the vertical axis.

GS simulators . vibration simulators

. vertical motion simulators

RT ∞ motion

shakers

shock simulators vibratory loads

#### vertical orientation

DEF 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

RT body sway test

gravireceptors

oculogravic illusions

∞ orientation

otolith organs

vestibular tests

vertical stabilizers

USE stabilizers (fluid dynamics)

vertical tails

stabilizers (fluid dynamics) USE tail assemblies

#### vertical takeoff

vertical takeoff and landing UF

VTOL

GS

takeoff . 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 vertical landing USE

vertices

USE apexes

DEF The sensation that the outer world is 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

radio equipment GS

. 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.

GS 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)

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 VLBI 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)

DEF 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 (VLBA) antenna arrays radio astronomy very long base interferometry very low frequencies (3 TO 30 KHZ) frequencies . radio frequencies .. low frequencies . very low frequencies GS audio frequencies Earth-ionosphere waveguide very small aperture terminals USE VSAT (network) vessels (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN blood vessels ∞ capsules fluid filled shells liquid filled shells GS navy pressure vessels ships Vesta asteroid celestial bodies viability . asteroids . Vesta asteroid asteroid belts meteoroids solar system space debris vestibular nystagmus eye movements . nystagmus vestibular nystagmus reflexes . vestibular nystagmus RT anatomy eye (anatomy) ophthalmology GS vestibular tests physiological tests GS vestibular tests body sway test Coriolis effect ear pressure test head down tilt head movement vertical perception vertigo vestibules GS anatomy . sense organs . . ear . . . labyrinth ... vestibules RT morphology passageways semicircular canals vests RT clothing garments veterinary medicine The branch of medical practice dealing with the treatment of diseases and injuries of animals. GS medical science veterinary medicine RT ∞ biology diagnosis diseases epidemiology immunology iniuries

∞ medicine

pathology

pharmacology

```
surgery
VFR (rules)
 USE visual flight rules
VHDL (computers)
 USE hardware description languages
VHF omnirange navigation
        omnirange navigation
         VOR systems
        navigation
        . radio navigation
          . VHF omnirange navigation
        air navigation
        navigation aids
        radio direction finders
         solar compasses
VHSIC (circuits)
        Chips being developed by a DOD pro-
gram to provide high speed MIL spec VLSI
device for use in military systems. Used for very
high speed integrated circuits.
        very high speed integrated circuits
        circuits
        . integrated circuits
          . VHSIC (circuits)
        chips (electronics)
        large scale integration
        signal processing
        animals
        carbon cycle
        crop vigor
        germination
        growth
        plants (botany)
         seeds
vibration
 DEF Motion due to a continuous change in
the magnitude of a given force which reverses
its direction with time. Motion of an oscillating
body during one complete cycle; two oscilla-
tions. Used for jitter.
        jitter
        vibration
         combustion vibration
         forced vibration
          free vibration
         lattice vibrations
          POGO effects
         random vibration
         resonant vibration
        . structural vibration
        . . bending vibration
        . . breathing vibration
        . . flutter
        . . . panel flutter
            subsonic flutter
            supersonic flutter
            transonic flutter
           linear vibration
        . . missile vibration
        . . self induced vibration
        ... panel flutter
            subsonic flutter
        . . . supersonic flutter
           . transonic flutter
         . . torsional vibration
        acoustics
        airfoil oscillations
        amplitudes
        antinodes
        compacting
        cyclic loads
        displacement
       ∞ dynamics
        elastic waves
        fatigue (materials)
        flapping
harmonics
        isolators
        mechanical oscillators
        mechanical shock
        mistuning (turbomachinery)
        modes (standing waves)
      ∞ motion
```

```
nodes (standing waves)
         nutation
         oscillating cylinders
         oscillations
         oscillators
         resonance
         shaking
         shock resistance
         spacecraft motion
         standing waves
         vibrational stress
         vibratory loads
        vibratory polishing
      ∞ waves
         wing oscillations
vibration dampers
 USE vibration isolators
vibration damping
  GS damping
         vibration damping
        acoustics
         attenuation
         DAST program
         elastic damping
         flexible spacecraft
         gyrodampers
         harmonic control
         magnetic damping
         magnetorheological fluids
         molecular relaxation
         nonoscillatory action
         nonstabilized oscillation
         piezoelectric actuators
         shock absorbers
         smart materials
vibration effects
        vibration effects
         . POGO effects
         support interference
         vibrational stress
       Resilient supports that tend to isolate
```

GS  $RT \, \infty \, effects$ 

### vibration isolators

systems from steady state excitation. Used for vibration dampers and vibration protection.

vibration dampers vibration protection

GS isolators

. vibration isolators

RT ∞ absorbers acoustic retrofitting cushions ∞ dampers dampers (valves) damping energy absorption noise reduction oscillation dampers shock absorbers springs (elastic)

suspension systems (vehicles)

### vibration measurement

mechanical measurement

vibration measurement cepstral analysis

damping tests frequency analyzers frequency measurement ∞ measurement stress measurement

# vibration meters

UF vibrometers measuring instruments . vibration meters . . seismographs . . lunar seismographs accelerometers transducers

### vibration mode

DEF In a system undergoing vibration, a characteristic pattern assumed by the system in which the motion of every particle is simple

### vibration perception

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 . uncoupled modes compressed video molecular properties airfoil oscillations data compression . molecular energy levels free vibration . video compression . vibrational states linear vibration analog data molecular excitation digital data mode transformers vibrational spectra digital television transverse waves discrete cosine transform vibrational stress image motion compensation vibration perception GS stresses image processing perception 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) GS vibration testing machines UF video teleconferencing . dynamic loads telecommunication simulators vibratory loads . teleconferencing . vibration simulators aerodynamic loads . vertical motion simulators . . video conferencing cyclic loads . video communication RT flutter structural design criteria ∞ machinery . . video conferencing vertical motion simulators RT communication networks shakers vibration shock simulators conferences vibration simulators television systems vibratory loads vibrational stress video compression vibration testing machines video data vibratory polishing USE vibration simulators GS polishing video data vibratory polishing RT analog data vibration tests metallography vibration tests ∞ data 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 resonance testing USE VC-10 aircraft video conferencing shock tests video disks stability tests video signals Vickers hardness static tests (added October 2001) structural vibration video disks DEF 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 load-variable diamond pyramid stylus. is recorded by one of two techniques: the cavibrational freezing pacitance method, in which the disk has spiral GS phase transformations diamond pyramid hardness grooves and is read by a contact stylus, and the . . freezing GS mechanical properties optical method, which uses lasers in both the . . vibrational freezing . hardness recording and playback of the data. Vickers hardness GS documents vibrational frequencies (molecular) hardness tests . records USE 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 disks (shapes) USE Valiant aircraft vibrational relaxation magnetic disks USE molecular relaxation memory (computers) Vickers VC-10 aircraft 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 Victor MK-1 aircraft audio visual equipment molecular relaxation RT ∞ aircraft camera tubes Raman spectra cathode ray tubes rotational spectra video communication compensators vibrational states GS telecommunication digital cameras display devices . video communication vibrational states . video conferencing flying spot scanners (added December 1993)

high definition television

multimedia

RT

motion pictures

optical equipment

(LIMITED TO MOLECULAR ENERGY LEVELS - EXCLUDES VIBRATION

	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	laudaa			Viking spacecraft
video la	andmark acquisition and tracking	viewing GS	viewing		Viking 2 spacecraft
DEF	Shuttle era system for earth-feature	as	. 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
111	image correlators		vision		Viking spacecraft
	map matching guidance	\			Viking 2 spacecraft
	scene analysis	Vigilante	A-5 aircraft		Viking lander 2
	signatures	USE	A-5 all'Craft		Viking lander spacecraft
	TERCOM				Viking lander 2
	terrain analysis	vignettir RT	defects	RT	. , ,
	tracking filters		focusing		Mars surface samples
video s	ignals		lenses		space exploration space flight
DEF	Signals with a bandwidth of over 20				space mgm
kilohertz		Viking 1	spacecraft	Viking	lander spacecraft
RT	signal processing	GS	interplanetary spacecraft	GS	, , ,
	signal transmission		. Mars probes		. Mars probes
~	signals		Viking spacecraft		Viking spacecraft
	video communication video compression		Viking 1 spacecraft		Viking lander spacecraft
	video data		Viking lander 1		Viking lander 1 Viking lander 2
	video data		Viking orbiter 1 unmanned spacecraft		unmanned spacecraft
video ta	ape recorders		. space probes		. space probes
(adde	ed January 1990)		Mars probes		Mars probes
GS	recording instruments		Viking spacecraft		Viking spacecraft
	tape recorders		Viking 1 spacecraft		Viking lander spacecraft
	video tape recorders		Viking lander 1		Viking lander 1
	video equipment . video tape recorders	DT	Viking orbiter 1	DT	Viking lander 2
RT	multimedia	RT	interplanetary trajectories	RT	interplanetary trajectories space exploration
	video tapes		space exploration space flight		space exploration space flight
			space liight		space mgm
video ta		Vikina 2	spacecraft	Viking	Mars program
(aaae RT	ed April 1989)		interplanetary spacecraft	GS	
ΠI	audio tapes cinematography		. Mars probes		. NASA programs
~	o films		. Viking spacecraft		. NASA space programs
	information		Viking 2 spacecraft		Viking Mars program space programs
	magnetic tapes		Viking lander 2		NASA space programs
	motion pictures		Viking orbiter 2		Viking Mars program
	multimedia		unmanned spacecraft . space probes	RT	
	photographs		Mars probes		Viking spacecraft
	photography		Viking spacecraft		
~	tapes video tape recorders		Viking 2 spacecraft		orbiter 1
	visual aids		Viking lander 2	GS	. , .
	vioual alas		Viking orbiter 2		Mars probes     Viking spacecraft
video te	leconferencing	RT	interplanetary trajectories		Viking 1 spacecraft
(adde	ed August 2000)		space exploration		Viking orbiter 1
USE	video conferencing		space flight		Viking orbiter spacecraft
! .!!	_	Villain m. 4	075 to		Viking orbiter 1
vidicon DEF			975 entry vehicle interplanetary spacecraft		unmanned spacecraft
	Television pickup tubes utilizing photo- ors as the sensing elements.	dS	. Mars probes		. space probes
GS	electron tubes		Viking 1975 entry vehicle		Mars probes Viking spacecraft
	. camera tubes		unmanned spacecraft		Viking 1 spacecraft
	vidicons		. space probes		Viking orbiter 1
	return beam vidicons		Mars probes		Viking orbiter spacecraft
	thermicons		Viking 1975 entry vehicle		Viking orbiter 1
RT	Advanced Vidicon Camera System	RT	Mars landing	RT	interplanetary trajectories
	(AVCS)		soft landing		space exploration
	fiber optics pixels	V21.1			space flight
	video equipment	Viking la GS			∞ spacecraft
		do	interplanetary spacecraft . Mars probes	Viking	orbiter 2
Vietnan			. Viking spacecraft	GS	
UF	North Vietnam		Viking 1 spacecraft		. Mars probes
	Republic of Vietnam		Viking lander 1		Viking spacecraft
GS	South Vietnam nations		Viking lander spacecraft		Viking 2 spacecraft
us	. Vietnam		Viking lander 1		Viking orbiter 2
RT	Asia		unmanned spacecraft		Viking orbiter spacecraft
	Southeast Asia		. space probes		Viking orbiter 2 unmanned spacecraft
			Viking spacecraft		. space probes
view eff			Viking 1 spacecraft		Mars probes
SN	(LIMITED TO EFFECTS OF CHANGE IN		Viking lander 1		Viking spacecraft
	ÀNGULAR SIZE OF FIELD OF VIEW UPON RECEPTORS OF RADIATION)		Viking lander spacecraft		Viking 2 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
~	effects		space exploration	RT	interplanetary trajectories

	space exploration		crop vigor		pneumonia
	space flight	•	∞ crops		viruses
0	o spacecraft		Earth resources	Virgin	Islands
Vikina	orbiter 1975		farm crops ∞ food	GS	landforms
GS	interplanetary spacecraft		irrigation	0.0	. islands
	. Mars probes		plants (botany)		West Indies
	Viking spacecraft		wines		Virgin Islands
	Viking orbiter spacecraft				nations
	Viking orbiter 1975	vinti th			. United States
	unmanned spacecraft	GS	perturbation theory	DT	Virgin Islands
	. space probes Mars probes	рт	. vinti theory	RT	archipelagoes
	Viking spacecraft	RT	geodesy orbit perturbation		Caribbean region Caribbean Sea
	Viking orbiter spacecraft		∞ theories		tropical regions
	Viking orbiter 1975		- allochoo		tropical regions
	· ·	vinyl c	opolymers	Virginia	a
Viking (	orbiter spacecraft	ĞS	copolymers	ĞS	nations
GS	interplanetary spacecraft		. vinyl copolymers		. United States
	. Mars probes		plastics		Virginia
	Viking spacecraft		. synthetic resins	RI	Allegheny Plateau (US)
	Viking orbiter spacecraft Viking orbiter 1		addition resins		Assateague Island (MD-VA)
	Viking orbiter 2		v <b>inyl copolymers</b> resins		Chesapeake Bay (US) Delmarva Peninsula (DE-MD-VA)
	Viking orbiter 1975		. synthetic resins		Potomac River Valley (MD-VA-WV)
	unmanned spacecraft		addition resins		Shenandoah Valley (VA)
	. space probes		vinyl copolymers		Wallops Island
	Mars probes		vinyl polymers		·
	Viking spacecraft		. vinyl copolymers		jalactic cluster
	Viking orbiter spacecraft	RT	additives		A cluster of galaxies nearest to the
	Viking orbiter 1		copolymerization		/ay Galaxy, centered in the constellation
	Viking orbiter 2	•	∞ polymers		and about 16 million light-years from
рт	Viking orbiter 1975 interplanetary trajectories	vinud or	vanida		Jsed for Virgo star cluster.
пі	planetary orbits	vinyl cy	acrylonitriles		Virgo star cluster celestial bodies
	space exploration	OOL	acrylomanes	45	. galactic clusters
	space dight	vinyl et	hvlene		Virgo galactic cluster
0	∘ spacecraft		butadiene		. galaxies
	•				Virgo galactic cluster
Viking I	rocket vehicle	vinyl p	olymers	RT	agglomeration
GS	rocket vehicles	GS	, , ,		barred galaxies
	single stage rocket vehicles		. polymethyl methacrylate		∞ clusters
БТ	Viking rocket vehicle		. polystyrene		disk galaxies
RT	liquid propellant rocket engines		. polyvinyl chloride		elliptical galaxies
	sounding rockets		. polyvinyl fluoride		local group (astronomy)
	vanguard 2 launch vehicle		. vinyl copolymers styrofoam (trademark)		spiral galaxies
Vikina	spacecraft		. polyvinyl alcohol		star clusters star distribution
DEF			. vinylidene		stars
	orbiter-lander space vehicle.	RT ·	∞ polymers		otaro
GŠ	interplanetary spacecraft			Virgo s	tar cluster
	. Mars probes	vinyl ra	adical	USE	Virgo galactic cluster
	. Viking spacecraft	GS	radicals		
	Viking 1 spacecraft		. vinyl radical		oefficients
	Viking lander 1	RT	free radicals	GS	coefficients
	Viking orbiter 1 Viking 2 spacecraft	ام العربان و		RT	. virial coefficients equations of state
	Viking 2 spacecraft	<b>vinylid</b> UF	polyvinylidene	n i	intermolecular forces
	Viking orbiter 2	GS	organic compounds		virial theorem
	Viking lander spacecraft	ao	. hydrocarbons		7 ma. 1100.0
	Viking lander 1		aliphatic hydrocarbons	virial tl	neorem
	Viking lander 2		alkenes	GS	theorems
	Viking orbiter spacecraft		ethylene		. virial theorem
	Viking orbiter 1		vinylidene	RT	kinetic energy
	Viking orbiter 2		vinyl polymers		kinetic equations
	Viking orbiter 1975		. vinylidene		missing mass (astrophysics)
	unmanned spacecraft	violen	-		statistical mechanics virial coefficients
	. space probes Mars probes	violend GS	e violence		Virial Coefficients
	Viking spacecraft	GS	. attacking (assaulting)	virtual	memory systems
	Viking 1 spacecraft	RT	crime	RT	
	Viking lander 1		disorders		data management
	Viking orbiter 1		police		data storage
	Viking 2 spacecraft		terrorism		magnetic storage
	Viking lander 2		warfare		
	Viking orbiter 2				properties
	Viking lander spacecraft		seases		accuracy
	Viking lander 1	SN	(EXCLUDES PLANT DISEASES)		∞ physical properties
	Viking lander 2	GS	diseases . infectious diseases	•	∞ properties
	Viking orbiter spacecraft Viking orbiter 1		viral diseases	virtual	reality
	Viking orbiter 1		acquired immunodeficiency		led February 1992)
	Viking orbiter 2		syndrome	•	An artificial reality that projects the
RT	Viking Mars program		influenza		to a three dimensional space generated
	2 L 2		poliomyelitis		computer.
vineyar	ds		smallpox	UF	VR (virtual reality)
ŔŤ	agriculture	RT	encephalitis	RT	cockpit simulators
	blight		hepatitis		computerized simulation
	botany		human immunodeficiency virus		environment simulation
	crop growth		meningitis		flight simulation

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 human immunodeficiency virus . plastic properties viscometry microorganisms viscoplasticity RT hysteresis viscous flow 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 interferon viscopumps . . . separated flow RT viscous flow protobiology . boundary layer separation . . Couette flow viral diseases Karman-Bodewadt flow virulence viscosity 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 inviscid flow . gas viscosity thorax 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 DEF The absorption of oscillatory motions rheology similitude law 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 superfluidity viscopumps . . viscoelastic damping 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 DEF Property of materials that shall under 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 GS visibility RT ∞ aircraft 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 viscometry luminescence rotating cylinders luminosity . viscous drag night flights (aircraft) friction viscometers flow resistance

viscosity

opacity

	optical properties	hyperopia	space perception
	perception	illusions	space perception
	radiance	images	orience I dilanta
	reading	legibility	visual flight
	resolution	light adaptation	RT air navigation
	retinal adaptation	miosis	collision avoidance
	sensitivity	myopia	∞ flight
	smoke	oculomotor nerves	flight conditions flight paths
	symbols	ophthalmodynamometry	flight safety
	transmissivity	optometry	landing
	viewing	perception	whiteout
	vision	phosphene	Willeout
	visual control	presbyopia	to all Market and a
	visual observation	pupils	visual flight rules
	whiteout	resolution	UF <i>VFR (rules)</i> GS rules
		retina	. flight rules
	infrared spin scan radiometer	retinal adaptation	visual flight rules
DEF	A radiometer used for satellite sound-	retinal images	visuai iligiit rules
	ne atmosphere.	thresholds (perception)	viewel absorpation
GS	measuring instruments	viewing	visual observation GS observation
	. radiation measuring instruments	visibility	. visual observation
	actinometers	visual acuity	RT optical tracking
	radiometers		surveillance
	infrared detectors	visors	visibility
	infrared radiometers	RT eye protection	visual perception
	visible infrared spin scan radiometer	radiation protection	visual tasks
	infrared instruments	sunglasses	riodal table
	infrared instruments	visual accommodation	vievel perception
	infrared detectors	RT accommodation	visual perception
	visible infrared spin scan	711 accommodation	UF <i>sight</i> GS perception
	radiometer	visual acuity	
RT	atmospheric sounding	DEF Keeness of perception and sharpness	. sensory perception
	satellite sounding	of vision.	v <b>isual perception</b> critical flicker fusion
	satellite-borne instruments	GS acuity	
	Satoliko Borrio motramonto	. visual acuity	space perception autokinesis
visible ra	adiation	hyperopia	visual discrimination
USE	light (visible radiation)	RT peripheral vision	RT afterimages
	3 (	Snellen tests	blinking
visible s	spectrum	vision	brightness discrimination
DEF	The range of wavelengths of visible		elevator illusion
radiation	n; display or graph of the intensity of	visual aids	motion perception
visible ra	adiation emitted or absorbed by a mate-	RT ∞ aids	∞ orientation
rial as a	function of wavelength or some related	audio visual equipment	perceptual errors
paramet	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 ∝	o absorption	multimedia	Tiodal taons
	absorption spectra	photographs	vioual photometry
	astronomical spectroscopy	training devices	visual photometry  DEF A subjective approach to the problem
	auroral spectroscopy	video tapes	of photometry, wherein the human eye is used
	cathodoluminescence		as the sensing instrument; to be distinguished
	emission spectra	visual control	from photoelectric photometry.
	gas spectroscopy	GS manual control	GS optical measurement
	light (visible radiation)	. visual control	. photometry
	line spectra	RT aircraft control	visual photometry
	molecular spectra solar spectra	approach control attitude control	, , , , , , , , , , , , , , , , , , ,
	spectral bands	∞ control	visual pigments
	spectral bands	display devices	GS pigments
	stellar spectra	quidance (motion)	. visual pigments
		missile control	RT dark adaptation
vision		remote control	photoreceptors
UF	macular vision	runway lights	photosensitivity
GS	vision	servocontrol	retina
	. binocular vision	spacecraft control	
	. color vision	visibility	visual signals
	. enhanced vision	•	RT beacons
	. monocular vision	visual discrimination	cues
	. night vision	GS discrimination	luminaires
	. peripheral vision	. sensory discrimination	optical communication
	. stereoscopic vision	visual discrimination	∞ signals
RT	adaptation	perception	9
	anastigmatism	. sensory perception	visual stimuli
	blindness	. visual perception	RT perceptual errors
	brightness	visual discrimination	∞ signals
	choroid membranes	RT ∞ recovery	∞ signais ∞ stimuli
	color	viewel dienleve	visual tasks
	conjunctiva	visual displays	zeitgebers
	contrast	USE display devices	201.900010
	cornea	vioual fields	vioual tasks
	dark adaptation	visual fields	visual tasks
	eye (anatomy)	RT field of view	GS tasks
	eye dominance flash blindness	∞ fields	. visual tasks
	glare	peripheral vision retina	RT eye movements human performance
	heterophoria human factors engineering	retinal images Saccadic eye movements	visual observation visual perception

visual stimuli	metallic glasses	echo suppressors
visual tracking	porcelain vitrification	ground-air-ground communication multimedia
USE optical tracking	viumoation	radio communication
	vitrification	radiotelephones
visualization of flow	DEF Formation of a glassy or noncrystalline	reentry communication
USE flow visualization	material. RT ceramics	scrambling (communication)
vitamin A	glass	single channel per carrier transmission
USE retinene	porcelain	single sideband transmission
" · · · · · · · · · · · · · · · · · · ·	solidification	speech
vitamin B	vitreous materials	speech baseband compression
USE thiamine	What does not	verbal communication
vitamin B 2	VJ-101 aircraft	vocoders
USE riboflavin	GS jet aircraft . <b>VJ-101 aircraft</b>	voice control
" / Do	monoplanes	voice data processing wireless communication
vitamin B 6	. VJ-101 aircraft	words (language)
USE pyridoxine	single engine aircraft	words (language)
vitamin B 12	. VJ-101 aircraft	voice control
USE cyanocobalamin	supersonic aircraft	SN (DEVICE OPERATION BY VOICE)
	. <b>VJ-101 aircraft</b> V/STOL aircraft	DEF Using the voice to activate devices
vitamin B complex	. vertical takeoff aircraft	which respond or operate by means of speech
USE biotin	VJ-101 aircraft	recognition. SN (device operation by voice).
vitamin C	RT ∞ aircraft	RT bioengineering
USE ascorbic acid		∞ control robotics
" · · · •	vlasov equations	robotics
vitamin D	GS analysis (mathematics) . real variables	speech recognition
USE calciferol	differential equations	voice communication
vitamin E	partial differential equations	voice data processing
USE tocopherol	vlasov equations	
·	RT ∞ equations	voice data processing
vitamin G	stability	GS data processing
USE riboflavin	VLBI	voice data processing
vitamin K	USE very long base interferometry	cepstral analysis
USE phylloquinone	OOL Very long base interferometry	RT artificial intelligence ∞ data
F 7 - 4	VLF emission recorders	∞ data digital to voice translators
vitamin M	RT atmospheric radiation	signal encoding
USE folic acid	atmospherics	single channel per carrier
vitamin P	cosmic rays	transmission
USE bioflavonoids	electromagnetic radiation	vector quantization
SSE SIGNATORIO	planetary radiation ∞ recorders	verbal communication
vitamins	recording instruments	vocoders
GS vitamins		voice communication voice control
. ascorbic acid	VLSI	voice control
. bioflavonoids . biotin	USE very large scale integration	Voice of America
. calciferol	VLTA (aircraft)	RT broadcasting
. carnitine	(added November 1998)	radio transmission
. cyanocobalamin	USE very large transport aircraft	radio fidiomission
. folic acid		void ratio
. nicotinamide	VOC (organic chemistry)	UF compactness
. nicotinic acid	(added March 2000)	GS ratios
. phylloquinone . pyridoxine	USE volatile organic compounds	. void ratio
. retinene	vocal cords	RT ∞ conductivity
. riboflavin	GS anatomy	density (mass/volume)
. thiamine	. respiratory system	free flow
. tocopherol	larynx	hole distribution (mechanics)
RT ascorbic acid metabolism	vocal cords	packing density permeability
choline	RT glottis	porosity
drugs	vocoders	reactor cores
∞ food ∞ nutrients	RT bandpass filters	surface properties
∞ numents	computers	voids
Viterbi decoders	compaters	
Viter bit decoders	digital to voice translators	
GS decoders	digital to voice translators frequency modulation	voids
GS decoders . Viterbi decoders	digital to voice translators frequency modulation messages	<b>voids</b> RT buoyancy
GS decoders . Viterbi decoders RT coding	digital to voice translators frequency modulation messages radio communication	RT buoyancy cavities
GS decoders . Viterbi decoders  RT coding decoding	digital to voice translators frequency modulation messages radio communication scrambling (communication)	RT buoyancy cavities crack geometry
GS decoders . Viterbi decoders  RT coding decoding signal encoding	digital to voice translators frequency modulation messages radio communication scrambling (communication) signal reception	RT buoyancy cavities crack geometry crack opening displacement
GS decoders . Viterbi decoders  RT coding decoding	digital to voice translators frequency modulation messages radio communication scrambling (communication)	RT buoyancy cavities crack geometry crack opening displacement defects
GS decoders . Viterbi decoders  RT coding decoding signal encoding signal processing  Viton rubber (trademark)	digital to voice translators frequency modulation messages radio communication scrambling (communication) signal reception speech baseband compression	RT buoyancy cavities crack geometry crack opening displacement defects inclusions
GS decoders . Viterbi decoders  RT coding decoding signal encoding signal processing  Viton rubber (trademark) GS copolymers	digital to voice translators frequency modulation messages radio communication scrambling (communication) signal reception speech baseband compression voice communication voice data processing	RT buoyancy cavities crack geometry crack opening displacement defects
GS decoders . Viterbi decoders  RT coding decoding signal encoding signal processing  Viton rubber (trademark) GS copolymers . Viton rubber (trademark)	digital to voice translators frequency modulation messages radio communication scrambling (communication) signal reception speech baseband compression voice communication voice data processing	RT buoyancy cavities crack geometry crack opening displacement defects inclusions infiltration
GS decoders . Viterbi decoders  RT coding decoding signal encoding signal processing  Viton rubber (trademark) GS copolymers . Viton rubber (trademark) elastomers	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	RT buoyancy cavities crack geometry crack opening displacement defects inclusions infiltration interstices
GS decoders . Viterbi decoders RT coding decoding signal encoding signal processing  Viton rubber (trademark) GS copolymers . Viton rubber (trademark) elastomers . rubber	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	RT buoyancy cavities crack geometry crack opening displacement defects inclusions infiltration interstices percolation permeability porosity
GS decoders . Viterbi decoders  RT coding decoding signal encoding signal processing  Viton rubber (trademark) GS copolymers . Viton rubber (trademark) elastomers . rubber synthetic rubbers	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	RT buoyancy cavities crack geometry crack opening displacement defects inclusions infiltration interstices percolation permeability
GS decoders . Viterbi decoders  RT coding decoding signal encoding signal processing  Viton rubber (trademark) GS copolymers . Viton rubber (trademark) elastomers . rubber synthetic rubbers Viton rubber (trademark)	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	RT buoyancy cavities crack geometry crack opening displacement defects inclusions infiltration interstices percolation permeability porosity
GS decoders . Viterbi decoders  RT coding decoding signal encoding signal processing  Viton rubber (trademark) GS copolymers . Viton rubber (trademark) elastomers . rubber synthetic rubbers Viton rubber (trademark) RT fluorohydrocarbons	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 buoyancy cavities crack geometry crack opening displacement defects inclusions infiltration interstices percolation permeability porosity void ratio
GS decoders . Viterbi decoders  RT coding decoding signal encoding signal processing  Viton rubber (trademark) GS copolymers . Viton rubber (trademark) elastomers . rubber synthetic rubbers Viton rubber (trademark) RT fluorohydrocarbons  vitreous materials	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	RT buoyancy cavities crack geometry crack opening displacement defects inclusions infiltration interstices percolation permeability porosity void ratio  Voigt effect RT birefringence
GS decoders . Viterbi decoders  RT coding decoding signal encoding signal processing  Viton rubber (trademark) GS copolymers . Viton rubber (trademark) elastomers . rubber synthetic rubbers Viton rubber (trademark) RT fluorohydrocarbons  vitreous materials RT frit	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 . voice communication . voice communication	RT buoyancy cavities crack geometry crack opening displacement defects inclusions infiltration interstices percolation permeability porosity void ratio   Voigt effect RT birefringence ∞ effects
GS decoders . Viterbi decoders  RT coding decoding signal encoding signal processing  Viton rubber (trademark) GS copolymers . Viton rubber (trademark) elastomers . rubber synthetic rubbers Viton rubber (trademark) RT fluorohydrocarbons  vitreous materials RT frit glass	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 . voice communication	RT buoyancy cavities crack geometry crack opening displacement defects inclusions infiltration interstices percolation permeability porosity void ratio   Voigt effect RT birefringence ∞ effects optical paths
GS decoders . Viterbi decoders  RT coding decoding signal encoding signal processing  Viton rubber (trademark) GS copolymers . Viton rubber (trademark) elastomers . rubber synthetic rubbers Viton rubber (trademark) RT fluorohydrocarbons  vitreous materials RT frit	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 . voice communication . voice communication	RT buoyancy cavities crack geometry crack opening displacement defects inclusions infiltration interstices percolation permeability porosity void ratio   Voigt effect RT birefringence ∞ effects

	organic compounds		paleomagnetism		electric potential
	ed March 2000)  Any compounds of carbon (excluding		petrogenesis petrology	04	electronics linear circuits
	oxides, carbonic acid, metallic carbon-		Rouse belts		Ohms law
	d carbides, and carbon-nitrogen com-		volcanic eruptions		open circuit voltage
	that are readily vaporizable; any of		volcanoes		optogalvanic spectroscopy
	mpounds that participate in atmospheric emical reactions, or that are considered	voltage			proximity effect (electricity) quantum efficiency
	ocal, regional, or global contaminants.	USE	electric potential		short circuit currents
UF	VOC (organic chemistry)				threshold voltage
GS	organic compounds	voitage GS	amplifiers amplifiers		transconductance
RT	. volatile organic compounds air pollution	ao	. voltage amplifiers		voltage amplifiers
	air quality	RT	current amplifiers	Volterra	equations
	contaminants		feedback amplifiers	GS	
	exhaust emission		magnetic amplifiers preamplifiers		functional analysis
	indoor air pollution ozone		volt-ampere characteristics		integral equations
	photochemical reactions			RT ~	Volterra equations  equations
			breakdown electrical faults	111 %	nonlinearity
volatilit GS		USE	electrical faults	~	o radiation
do	thermodynamic properties . thermophysical properties		controlled oscillators		
	volatility		An oscillator whose frequency of oscil-	voltmet	
RT	coal gasification		an be varied by changing an applied Used for VCO.	UF GS	voltage variation indicators measuring instruments
	evaporation	UF	VCO	40	. voltmeters
	flash point prevaporization	GS	oscillators		millivoltmeters
	vapor phases		. voltage controlled oscillators	RT	ammeters
	vapor pressure	RT	circuits		coulometers
	vaporizing		electric control electric networks		electrometers potentiometers (instruments)
volatiliza	ation		frequency modulation		peternemotere (metramente)
	vaporizing		frequency stability	volume	
	3		microwave oscillators	GS	volume
	c eruptions		voltage regulators	DT	. body volume (biology)
	ed October 2001) The sudden ejection of solid, liquid, or	voltage	converters (AC to AC)	RT ~	area capacity
	s matter from a volcanic vent or fissure.	GS	transformers		dimensions
UF	eruptions (volcanology)	DT	. voltage converters (AC to AC)		frustums
RT	calderas	RT	alternating current auxiliary power sources		geometry
	effluents	~	converters		isochoric processes rates (per time)
	lava magma		electric equipment		thickness
	submarine hydrothermal vents	00	electric power		
	Submanne nyuromennar vents		•		volumetric analysis
	volcanoes		power supplies		weight (mass)
	•	∞	•		weight (mass)
volcanio	volcanoes volcanology	voltage RT	converters (DC to DC) auxiliary power sources	volume	weight (mass) fraction
volcanio USE	volcanoes volcanology	voltage RT	converters (DC to DC) auxiliary power sources converters		weight (mass)
USE	volcanoes volcanology s volcanology	voltage RT	converters (DC to DC) auxiliary power sources converters direct current	USE	weight (mass)  fraction  concentration (composition)
USE volcano	volcanoes volcanology volcanology pes	voltage RT	converters (DC to DC) auxiliary power sources converters direct current electric batteries	USE	weight (mass) fraction
USE volcand DEF	volcanoes volcanology volcanology  volcanology  volcanology  volcanology  volcanology  volcanology	voltage RT	converters (DC to DC) auxiliary power sources converters converters direct current electric batteries electric equipment electric power	USE volume	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis
volcand DEF the Eart	volcanoes volcanology volcanology pes	voltage RT	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies	USE <b>volume</b> GS	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis volumetric analysis
volcand DEF the Eart solid, ar UF	volcanoes volcanology ss volcanology bes Naturally occuring vents or fissures at h's surface through which erupt molten, active volcanoes	voltage RT	converters (DC to DC) auxiliary power sources converters converters direct current electric batteries electric equipment electric power	USE volume	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis . volumetric analysis analytical chemistry
volcand DEF the Eart solid, ar	volcanoes volcanology  ss volcanology  bes Naturally occuring vents or fissures at h's surface through which erupt molten, active volcanoes geology	voltage RT	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies	USE <b>volume</b> GS	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis . volumetric analysis analytical chemistry gas analysis
volcand DEF the Eart solid, ar UF	volcanoes volcanology  ss volcanology  bes Naturally occuring vents or fissures at h's surface through which erupt molten, active volcanoes geology . volcanoes	voltage RT	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies power supply circuits  generators arc generators	USE <b>volume</b> GS	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis . volumetric analysis analytical chemistry
volcand DEF the Eart solid, ar UF	volcanoes volcanology  ss volcanology  bes Naturally occuring vents or fissures at h's surface through which erupt molten, active volcanoes geology	voltage RT	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies power supply circuits  generators arc generators electrostatic generators	USE <b>volume</b> GS	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis . volumetric analysis analytical chemistry gas analysis quantitative analysis
volcand DEF the Eart solid, ar UF	volcanoes volcanology  ss volcanology  bes Naturally occuring vents or fissures at h's surface through which erupt molten, ad gaseous materials. active volcanoes geology volcanoes . Mars volcanoes	voltage RT ° voltage RT	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies power supply circuits  generators arc generators electrostatic generators function generators	VSE  volume  GS  RT  volume	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis . volumetric analysis analytical chemistry gas analysis quantitative analysis volume  tric efficiency
volcand DEF the Eart solid, ar UF GS	volcanoes volcanology  ss volcanology  bes Naturally occuring vents or fissures at his surface through which erupt molten, active volcanoes geology volcanoes Mars volcanoes landforms volcanoes Mars volcanoes  Mars volcanoes	voltage RT ° voltage RT	converters (DC to DC) auxiliary power sources converters converters converters direct current electric batteries electric equipment electric power power supplies power supply circuits  generators arc generators electrostatic generators function generators generators egenerators	USE volume GS	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis . volumetric analysis analytical chemistry gas analysis quantitative analysis volume  tric efficiency energy conversion efficiency
volcand DEF the Eart solid, ar UF	volcanoes volcanology  ss volcanology  bes Naturally occuring vents or fissures at h's surface through which erupt molten, active volcanoes geology volcanoes . Mars volcanoes landforms volcanoes . Mars volcanoes basalt	voltage RT ° voltage RT	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies power supply circuits  generators arc generators electrostatic generators function generators generators signal generators	VSE  volume  GS  RT  volume	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis . volumetric analysis analytical chemistry gas analysis quantitative analysis volume  tric efficiency energy conversion efficiency engine design
volcand DEF the Eart solid, ar UF GS	volcanoes volcanology  ss volcanology  bes Naturally occuring vents or fissures at h's surface through which erupt molten, ad gaseous materials. active volcanoes geology volcanoes . Mars volcanoes landforms volcanoes . Mars volcanoes basalt calderas	voltage RT  voltage RT  voltage	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment power supplies power supplies power supply circuits  generators arc generators electrostatic generators function generators generators signal generators  measurement	VSE  volume  GS  RT  volume	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis . volumetric analysis analytical chemistry gas analysis quantitative analysis volume  tric efficiency energy conversion efficiency
volcand DEF the Eart solid, ar UF GS	volcanoes volcanology  ss volcanology  bes Naturally occuring vents or fissures at h's surface through which erupt molten, active volcanoes geology volcanoes . Mars volcanoes landforms volcanoes . Mars volcanoes basalt	voltage RT  voltage RT  voltage	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies power supply circuits  generators arc generators electrostatic generators function generators generators signal generators	VSE  volume  GS  RT  volume	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis . volumetric analysis analytical chemistry gas analysis quantitative analysis volume  tric efficiency energy conversion efficiency engine design fuel-air ratio
volcand DEF the Eart solid, ar UF GS	volcanoes volcanology  ss volcanology  bes Naturally occuring vents or fissures at h's surface through which erupt molten, active volcanoes geology volcanoes . Mars volcanoes landforms volcanoes . Mars volcanoes basalt calderas cones (volcanoes) effusives geomorphology	voltage RT voltage RT	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment power supplies power supplies power supply circuits  generators arc generators electrostatic generators function generators generators signal generators  measurement	VOLUME GS RT VOLUME RT	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis . volumetric analysis analytical chemistry gas analysis quantitative analysis volume  tric efficiency energy conversion efficiency engine design fuel-air ratio laser outputs  tric strain
volcand DEF the Eart solid, ar UF GS	volcanoes volcanology  ss volcanology  bes Naturally occuring vents or fissures at h's surface through which erupt molten, ad gaseous materials. active volcanoes geology volcanoes . Mars volcanoes landforms . volcanoes . Mars volcanoes basalt calderas cones (volcanoes) effusives geomorphology geothermal resources	voltage RT voltage RT	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies power supply circuits  generators arc generators electrostatic generators function generators generators signal generators  measurement electrical measurement regulators control equipment	volume GS RT volume RT	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis volumetric analysis analytical chemistry gas analysis quantitative analysis volume  tric efficiency energy conversion efficiency engine design fuel-air ratio laser outputs  tric strain fatigue (materials)
volcand DEF the Eart solid, ar UF GS	volcanoes volcanology  geomorphology  geomorphology  geomorphology  geothermal resources  lava	voltage RT  voltage RT  voltage USE  voltage	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies power supply circuits  generators arc generators electrostatic generators function generators signal generators  measurement electrical measurement regulators control equipment . regulators	volume GS RT volume RT volume GS	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis . volumetric analysis analytical chemistry gas analysis quantitative analysis volume  tric efficiency energy conversion efficiency engine design fuel-air ratio laser outputs  tric strain fatigue (materials) . volumetric strain
volcand DEF the Eart solid, ar UF GS	volcanoes volcanology  ss volcanology  bes Naturally occuring vents or fissures at h's surface through which erupt molten, ad gaseous materials. active volcanoes geology volcanoes . Mars volcanoes landforms . volcanoes . Mars volcanoes basalt calderas cones (volcanoes) effusives geomorphology geothermal resources	voltage RT voltage RT voltage USE voltage GS	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies power supply circuits  generators arc generators electrostatic generators function generators signal generators signal generators measurement electrical measurement regulators control equipment regulators voltage regulators	VOLUME GS RT VOLUME RT	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis volumetric analysis analytical chemistry gas analysis quantitative analysis volume  tric efficiency energy conversion efficiency engine design fuel-air ratio laser outputs  tric strain fatigue (materials)
volcand DEF the Eart solid, ar UF GS	volcanoes volcanology  ss volcanology  ss volcanology  ss volcanology  ss Naturally occuring vents or fissures at h's surface through which erupt molten, and gaseous materials. active volcanoes geology volcanoes . Mars volcanoes landforms volcanoes . Mars volcanoes landforms et volcanoes basalt calderas cones (volcanoes) effusives geomorphology geothermal resources lava mountains orography paleomagnetism	voltage RT  voltage RT  voltage USE  voltage	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies power supply circuits  generators arc generators electrostatic generators function generators signal generators  measurement electrical measurement regulators control equipment . regulators	volume GS RT volume RT volume GS	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis . volumetric analysis analytical chemistry gas analysis quantitative analysis volume  tric efficiency energy conversion efficiency engine design fuel-air ratio laser outputs  tric strain fatigue (materials) . volumetric strain deformation
volcand DEF the Eart solid, ar UF GS	volcanoes volcanology  ss volcanology  bes Naturally occuring vents or fissures at h's surface through which erupt molten, ad gaseous materials. active volcanoes geology volcanoes Mars volcanoes landforms volcanoes Mars volcanoes landforms volcanoes Mars volcanoes es (volcanoes) sasalt calderas cones (volcanoes) effusives geomorphology geothermal resources lava mountains orography paleomagnetism petrology	voltage RT voltage RT voltage USE voltage GS	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies power supply circuits  generators arc generators electrostatic generators function generators signal generators measurement electrical measurement regulators control equipment regulators avalanche diodes circuit protection controllers	volume GS RT volume RT volume GS RT	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis . volumetric analysis analytical chemistry gas analysis quantitative analysis volume  tric efficiency energy conversion efficiency engine design fuel-air ratio laser outputs  tric strain fatigue (materials) . volumetric strain deformation structural strain temperature inversions
volcand DEF the Eart solid, ar UF GS	volcanoes volcanology  volcanol	voltage RT voltage RT voltage USE voltage GS	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies power supply circuits  generators arc generators electrostatic generators function generators signal generators signal generators measurement electrical measurement regulators control equipment . regulators avalanche diodes circuit protection controllers current regulators	volume GS RT  volume GS RT  volume Volume RT	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis . volumetric analysis analytical chemistry gas analysis quantitative analysis volume  tric efficiency energy conversion efficiency engine design fuel-air ratio laser outputs  tric strain fatigue (materials) . volumetric strain deformation structural strain temperature inversions  y muscle
volcand DEF the Eart solid, ar UF GS	volcanoes volcanology  volcanology  volcanology  volcanology  volcanology  volcanology  volcanology  volcanology  volcanoes geology volcanoes Mars volcanoes landforms volcanoes Mars volcanoes landforms volcanoes geomorphology geothermal resources lava mountains orography paleomagnetism petrology Rouse belts volcanology Rouse belts volcanic eruptions	voltage RT voltage RT voltage USE voltage GS	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies power supply circuits  generators arc generators electrostatic generators function generators signal generators signal generators electrical measurement regulators control equipment regulators voltage regulators avalanche diodes circuit protection controllers current regulators electric switches	volume GS RT  volume GS RT  volume GS RT	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis . volumetric analysis analytical chemistry gas analysis quantitative analysis volume  tric efficiency energy conversion efficiency engine design fuel-air ratio laser outputs  tric strain fatigue (materials) . volumetric strain deformation structural strain temperature inversions  y muscle end December 2004)
USE  volcanc  DEF the Eart solid, ar  UF GS	volcanoes volcanology	voltage RT voltage RT voltage USE voltage GS	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies power supply circuits  generators arc generators electrostatic generators function generators signal generators signal generators measurement electrical measurement regulators control equipment . regulators avalanche diodes circuit protection controllers current regulators	volume GS RT  volume GS RT  volume GS RT	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis . volumetric analysis analytical chemistry gas analysis quantitative analysis volume  tric efficiency energy conversion efficiency engine design fuel-air ratio laser outputs  tric strain fatigue (materials) . volumetric strain deformation structural strain temperature inversions  y muscle
volcand DEF the Eart solid, ar UF GS	volcanoes volcanology  volcanology  volcanology  volcanology  volcanology  volcanology  volcanoes  service volcanoes geology volcanoes . Mars volcanoes landforms volcanoes . Mars volcanoes landforms landforms landfor	voltage RT voltage RT voltage USE voltage GS	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies power supply circuits  generators arc generators electrostatic generators function generators signal generators signal generators measurement electrical measurement regulators . voltage regulators avalanche diodes circuit protection controllers current regulators electrios witches electronic control power factor controllers power supply circuits	volume GS RT  volume GS RT  volume GS RT  voluntar (addd USE	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis . volumetric analysis analytical chemistry gas analysis quantitative analysis volume  tric efficiency energy conversion efficiency engine design fuel-air ratio laser outputs  tric strain fatigue (materials) . volumetric strain deformation structural strain temperature inversions  try muscle end December 2004) skeletal muscle
Volcanc DEF the Eart solid, ar UF GS	volcanoes volcanology  volcanology  volcanology  volcanology  volcanology  volcanology  volcanology  volcanoes  lava  mountains  orography  paleomagnetism  petrology  Rouse belts  volcanic eruptions  volcanics	voltage RT voltage RT voltage USE voltage GS	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies power supply circuits  generators arc generators electrostatic generators function generators signal generators electrical measurement  regulators control equipment regulators . voltage regulators avalanche diodes circuit protection controllers current regulators electric switches electric control power factor controllers power supply circuits	volume GS RT  volume GS RT  volume GS RT	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis . volumetric analysis analytical chemistry gas analysis quantitative analysis volume  tric efficiency energy conversion efficiency engine design fuel-air ratio laser outputs  tric strain fatigue (materials) . volumetric strain deformation structural strain temperature inversions  try muscle end December 2004) skeletal muscle
volcand DEF the Eart solid, ar UF GS	volcanoes volcanology  volcanology  volcanology  volcanology  volcanology  volcanology  volcanology  volcanoes selective volcanoes selective volcanoes landforms volcanoes . Mars volcanoes landforms . volcanoes selective volcanoes landforms volcanoes selective volcanoes landforms volcanoes selective volcanoes landforms volcanoes landforms volcanoes selective volcanoes landforms volcanoes selective volcanoes lava select	voltage RT voltage RT voltage USE voltage GS	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies power supplies power supply circuits  generators arc generators electrostatic generators function generators signal generators signal generators electrical measurement  regulators control equipment regulators avalanche diodes circuit protection controllers current regulators electric switches electronic controll power factor controllers power supply circuits	volume GS RT  volume GS RT  volume GS RT  voluntar (adde USE vomitin	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis . volumetric analysis analytical chemistry gas analysis quantitative analysis volume  tric efficiency energy conversion efficiency engine design fuel-air ratio laser outputs  tric strain fatigue (materials) . volumetric strain deformation structural strain temperature inversions  y muscle ed December 2004) skeletal muscle
Volcanc DEF the Eart solid, ar UF GS	volcanoes volcanology  ss volcanology  ss volcanology  ss volcanology  ss Naturally occuring vents or fissures at h's surface through which erupt molten, and gaseous materials. active volcanoes geology volcanoes . Mars volcanoes landforms . volcanoes . Mars volcanoes basalt calderas cones (volcanoes) effusives geomorphology geothermal resources lava mountains orography paleomagnetism petrology Rouse belts volcanic eruptions volcanics geology volcanics geology volcanology basalt	voltage RT voltage RT voltage USE voltage GS	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies power supply circuits  generators arc generators electrostatic generators function generators generators signal generators electrical measurement  regulators control equipment regulators voltage regulators avalanche diodes circuit protection controllers current regulators electric switches electronic control power factor controllers power supply circuits switching circuits transformers transmission loss	volume GS RT  volume GS RT  volume GS RT  voluntar (adda USE  vomitin RT	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis . volumetric analysis analytical chemistry gas analysis quantitative analysis volume  tric efficiency energy conversion efficiency engine design fuel-air ratio laser outputs  tric strain fatigue (materials) . volumetric strain deformation structural strain temperature inversions  ty muscle end December 2004) skeletal muscle  g motion sickness nausea
volcanc DEF the Eart solid, ar UF GS	volcanoes volcanology  volcanology  volcanology  volcanology  volcanology  volcanology  volcanology  volcanoes  lava  mountains  orography paleomagnetism petrology Rouse belts volcanic eruptions volcanology  volcanics geology  volcanology  basalt calderas	voltage RT  voltage RT  voltage USE  voltage GS  RT	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies power supply circuits  generators arc generators electrostatic generators function generators signal generators electrical measurement  regulators control equipment regulators . voltage regulators avalanche diodes circuit protection controllers current regulators electric switches electric control power factor controllers power supply circuits	volume GS RT  volume GS RT  volume GS RT  voluntar (adda USE  vomitin RT	weight (mass)  fraction     concentration (composition)  tric analysis     chemical tests     . volumetric analysis     analytical chemistry     gas analysis     quantitative analysis     volume  tric efficiency     energy conversion efficiency     energy conversi
volcanc DEF the Eart solid, ar UF GS	volcanoes volcanology  volcanology  volcanology  volcanology  volcanology  volcanology  volcanology  volcanoes  basalt  calderas  cones (volcanoes)  effusives  geomorphology  geothermal resources  lava  mountains  orography  paleomagnetism  petrology  Rouse belts  volcanic eruptions  volcanology  volcanics  geology  volcanology  basalt  calderas  cones (volcanoes)	voltage RT  voltage RT  voltage USE voltage GS  RT	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies power supplies power supply circuits  generators arc generators electrostatic generators function generators signal generators signal generators electrical measurement  regulators control equipment regulators avalanche diodes circuit protection controllers current regulators electric switches electronic controll power factor controllers power supply circuits switching circuits transformers transmission loss voltage controlled oscillators	volume GS RT  volume GS RT  volume GS RT  voluntar (adda USE  vomitin RT	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis . volumetric analysis analytical chemistry gas analysis quantitative analysis volume  tric efficiency energy conversion efficiency engine design fuel-air ratio laser outputs  tric strain fatigue (materials) . volumetric strain deformation structural strain temperature inversions  y muscle end December 2004) skeletal muscle  g motion sickness nausea  rman equation flow equations
volcanc DEF the Eart solid, ar UF GS	volcanoes volcanology  se volcanology  se volcanology  se Naturally occuring vents or fissures at h's surface through which erupt molten, and gaseous materials. active volcanoes geology volcanoes . Mars volcanoes landforms volcanoes . Mars volcanoes basalt calderas cones (volcanoes) effusives geomorphology geothermal resources lava mountains orography paleomagnetism petrology Rouse belts volcanic eruptions volcanology  volcanology  volcanology  volcanology basalt calderas cones (volcanoes) effusives geology volcanology basalt calderas cones (volcanoes) effusives geology volcanology basalt calderas cones (volcanoes) effusives	voltage RT  voltage RT  voltage USE voltage GS  RT	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies power supply circuits  generators arc generators electrostatic generators function generators signal generators electrical measurement  regulators control equipment regulators . voltage regulators avalanche diodes circuit protection controllers current regulators electric switches electric control power factor controllers power supply circuits	volume GS RT  volume GS RT  volume GS RT  voluntar (adde USE vomitin RT  Von Kar GS	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis . volumetric analysis analytical chemistry gas analysis quantitative analysis volume  tric efficiency energy conversion efficiency engine design fuel-air ratio laser outputs  tric strain fatigue (materials) . volumetric strain deformation structural strain temperature inversions  y muscle end December 2004) skeletal muscle  g motion sickness nausea  rman equation flow equations . Von Karman equation
volcanc DEF the Eart solid, ar UF GS	volcanoes volcanology  volcanology  volcanology  volcanology  volcanology  volcanology  volcanology  volcanoes  basalt  calderas  cones (volcanoes)  effusives  geomorphology  geothermal resources  lava  mountains  orography  paleomagnetism  petrology  Rouse belts  volcanic eruptions  volcanology  volcanics  geology  volcanology  basalt  calderas  cones (volcanoes)	voltage RT  voltage RT  voltage USE  voltage USE  voltage USE	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies power supplies power supply circuits  generators arc generators electrostatic generators function generators signal generators signal generators electrical measurement  regulators control equipment regulators avalanche diodes circuit protection controllers current regulators electric switches electronic controll power factor controllers power supply circuits switching circuits transformers transmission loss voltage controlled oscillators	volume GS RT  volume GS RT  volume GS RT  voluntar (adde USE vomitin RT  Von Kar GS	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis . volumetric analysis analytical chemistry gas analysis quantitative analysis volume  tric efficiency energy conversion efficiency engine design fuel-air ratio laser outputs  tric strain fatigue (materials) . volumetric strain deformation structural strain temperature inversions  y muscle end December 2004) skeletal muscle  g motion sickness nausea  rman equation flow equations
volcanc DEF the Eart solid, ar UF GS	volcanoes volcanology  volcanology  volcanology  volcanology  volcanology  volcanology  volcanology  volcanoes geology volcanoes . Mars volcanoes landforms . volcanoes basalt calderas cones (volcanoes) geomorphology geothermal resources lava mountains orography paleomagnetism petrology Rouse belts volcanics geology volcanics geology volcanics geology volcanics geology volcanics geology volcanology basalt calderas cones (volcanoes) effusives geomorphology geothermal resources lava mountains orography paleomagnetism petrology Rouse belts volcanic eruptions volcanology basalt calderas cones (volcanoes) effusives geomorphology lava Mars volcanoes	voltage RT  voltage RT  voltage USE  voltage GS  RT  voltage USE  voltage USE	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies power supplies power supply circuits  generators arc generators electrostatic generators function generators signal generators signal generators electrical measurement  regulators control equipment regulators avalanche diodes circuit protection controllers current regulators electric switches electronic control power factor controllers power supply circuits switching circuits transformers transmission loss voltage controlled oscillators  variation indicators voltmeters  pere characteristics capacitance-voltage characteristics	volume GS RT  volume GS RT  volume GS RT  voluntar (adde USE vomitin RT  Von Kar GS	weight (mass)  fraction concentration (composition)  tric analysis chemical tests . chemical analysis . volumetric analysis analytical chemistry gas analysis quantitative analysis volume  tric efficiency energy conversion efficiency engine design fuel-air ratio laser outputs  tric strain fatigue (materials) . volumetric strain deformation structural strain temperature inversions  try muscle end December 2004) skeletal muscle  g motion sickness nausea  rman equation flow equations . Von Karman equation equations flow stability Karman vortex street
volcanc DEF the Eart solid, ar UF GS	volcanoes volcanology  volcanology  volcanology  volcanology  volcanology  volcanology  volcanoes  volcanology  paleomagnetism  petrology  Rouse belts  volcanic eruptions  volcanology  volcanics  geology  volcanology  basalt  calderas  cones (volcanoes)  effusives  geomorphology  lava	voltage RT  voltage RT  voltage USE  voltage GS  RT  voltage USE  voltage USE	converters (DC to DC) auxiliary power sources converters direct current electric batteries electric equipment electric power power supplies power supply circuits  generators arc generators electrostatic generators function generators signal generators electrical measurement  regulators control equipment . regulators . voltage regulators avalanche diodes circuit protection controllers current regulators electric switches electric control power factor controllers power supply circuits switching circuits transformers transmission loss voltage controlled oscillators variation indicators voltmeters pere characteristics	volume GS RT  volume GS RT  volume GS RT  voluntar (adde USE vomitin RT  Von Kar GS	weight (mass)  fraction     concentration (composition)  tric analysis     chemical tests     . chemical analysis     . volumetric analysis     analytical chemistry     gas analysis     quantitative analysis     volume  tric efficiency     energy conversion effici

vorticity equations turbulent flow vortex filaments Von Karman equation von Mises theory vortex flaps vortex injectors USE stress functions 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 flux vector splitting lattices (mathematics) flow; the small non energy containing eddies 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) vortex precession horseshoe vortices flow velocity RT turbulence 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 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 mechanics (physics) spatial distribution . aerodynamic brakes . fluid mechanics topology . . wing flaps . . fluid dynamics trajectory planning vortex flaps . vortex shedding . aircraft brakes shedding vortex advisory system . . wing flaps vortices DEF Display system which compares mea-.. vortex flaps sured on-minute-average wind magnitudes and control surfaces vortex sheets direction with the wind-rose criterion to predict . flaps (control surfaces) RT aircraft design . . wing flaps wake vorticity and to indicate to the air traffic flow distribution controller (with a red or green light) when the rotating fluids drag devices
. aerodynamic brakes
. wing flaps interarrival spacings for landings may be resheets duced to the 3 nautical mile limit. turbulent wakes air traffic control vortices aircraft approach spacing . . . vortex flaps aerodynamic drag jet flaps vorticity aircraft wakes ∞ systems vortex streets turbulent wakes leading edge flaps DEF Two parallel rows of alternately placed vortex alleviation leading edges vortices along the wake of an obstacle in a fluid lift augmentation of moderate Reynolds number. vortex alleviation separated flow GS vortex streets The alteration of airfoil configurations trailing edge flaps Karman vortex street to change the airflow patterns directly behind the trailing edges RT discontinuity wings to eliminate or inhibit the vertical motion vortex breakdown ∞ sheets which directly affects the aircraft immediately vortices turbulent wakes following, during closely spaced landings.

RT aircraft wakes wing loading Von Karman equation vortices drag devices gust alleviators vortex flow USE vortices vortex traps protuberances USE trapped vortices riblets vortex generation spoilers USE vortex generators vortex tubes vortex advisory system USE Hilsch tubes vortex generators vortices vortices wakes vortex generation winglets airfoil fences vortex-blade interaction boundary layer control USE blade-vortex interaction vortex avoidance boundary layer separation DEF Schemes which involve airborne or generators ground-based equipment to track, monitor, Hilsch tubes DEF In fluids, circulations drawing their enand/or predict vortex behavior which might affect horseshoe vortices ergy from flows of much larger scale and the approach and landing operations. inlet flow brought about by pressure irregularities. Used avoidance vortices for eddies, rotational flow, vortex columns, vor-. vortex avoidance wing slots tex disturbances, vortex flow, and vortex tubes. aerodynamic stability eddies air traffic control vortex in cell technique rotational flow aircraft approach spacing (added April 1993) vortex columns aircraft landing VIC method vortex disturbances buffeting analysis (mathematics) vortex flow . numerical analysis vortex tubes gusts . . approximation rotation GS vortices . . vortex in cell technique safety . horseshoe vortices turbulent flow computational fluid dynamics . trapped vortices wing tip vortices

Abrikosov theory vortices fast Fourier transformations winglets finite difference theory ∞ methodology particle in cell technique agitation

Poisson equation

vortex breakdown

RT flow stability

Biot-Savart law

blade-vortex interaction

cavitation flow Von Karman equation reentry vehicles counterflow . recoverable spacecraft ∞ disturbances vorticity transport hypothesis . . Vostok spacecraft divergence hypotheses Vostok 4 spacecraft vorticity transport hypothesis flow distortion soft landing spacecraft . Vostok spacecraft flow stability conservation equations fluid flow eddy currents .. Vostok 4 spacecraft Goertler instability mixing length flow theory Hilsch tubes turbulent flow Vostok 5 spacecraft Kolmogorov theory GS manned spacecraft large eddy simulation Voskhod 1 spacecraft . Vostok spacecraft GS manned spacecraft meteorological solenoids . Vostok 5 spacecraft . voskhod manned spacecraft reentry vehicles planetary waves Voskhod 1 spacecraft . recoverable spacecraft recirculative fluid flow reentry vehicles .. Vostok spacecraft rotating fluids rotating liquids . recoverable spacecraft Vostok 5 spacecraft ... voskhod manned spacecraft soft landing spacecraft rotation Voskhod 1 spacecraft . Vostok spacecraft soft landing spacecraft secondary flow . . Vostok 5 spacecraft . voskhod manned spacecraft Strouhal number superconductivity ... Voskhod 1 spacecraft superfluidity thrust distribution Vostok 6 spacecraft Voskhod 2 spacecraft GS manned spacecraft GS manned spacecraft turbulence . Vostok spacecraft . voskhod manned spacecraft turbulent flow . Vostok 6 spacecraft . Voskhod 2 spacecraft turbulent mixing reentry vehicles reentry vehicles vortex alleviation . recoverable spacecraft . recoverable spacecraft vortex avoidance . . Vostok spacecraft . . voskhod manned spacecraft vortex filaments Vostok 6 spacecraft Voskhod 2 spacecraft vortex flaps soft landing spacecraft soft landing spacecraft vortex generators . Vostok spacecraft . voskhod manned spacecraft vortex in cell technique ... Vostok 6 spacecraft . . Voskhod 2 spacecraft vortex lattice method vortex precession voskhod manned spacecraft Vostok spacecraft vortex rings GS manned spacecraft GS manned spacecraft vortex shedding . voskhod manned spacecraft Vostok spacecraft vortex sheets . Vostok 1 spacecraft . Vostok 2 spacecraft Voskhod 1 spacecraft vortex streets . . Voskhod 2 spacecraft vorticity reentry vehicles Vostok 3 spacecraft wakes . recoverable spacecraft Vostok 4 spacecraft Vostok 5 spacecraft . . voskhod manned spacecraft . . . Voskhod 1 spacecraft . Vostok 6 spacecraft vorticity Voskhod 2 spacecraft reentry vehicles
. recoverable spacecraft enstrophy soft landing spacecraft algebra . voskhod manned spacecraft
. . Voskhod 1 spacecraft ... Vostok spacecraft . vector spaces ... Vostok 1 spacecraft .. vectors (mathematics) Vostok 2 spacecraft . Voskhod 2 spacecraft vorticity Vostok 3 spacecraft space capsules analysis (mathematics) Vostok 4 spacecraft Vostok 5 spacecraft . calculus Vostok 1 spacecraft . . vector analysis GS manned spacecraft . Vostok spacecraft Vostok 6 spacecraft . . . curl (vectors) soft landing spacecraft .... vorticity Vostok 1 spacecraft . Vostok spacecraft . real variables reentry vehicles Vostok 1 spacecraft . . vector analysis . recoverable spacecraft Vostok 2 spacecraft . . . curl (vectors) . Vostok spacecraft Vostok 3 spacecraft Vostok 1 spacecraft Vostok 4 spacecraft geometry soft landing spacecraft Vostok 5 spacecraft . vector analysis . Vostok spacecraft . Vostok 6 spacecraft . . curl (vectors) ... Vostok 1 spacecraft RT space capsules . vorticity atmospheric circulation Beltrami flow Vostok 2 spacecraft voting GS manned spacecraft Crocco method governments Vostok spacecraft flow stability law (jurisprudence) . Vostok 2 spacecraft Helmholtz vorticity equation minorities reentry vehicles horseshoe vortices . recoverable spacecraft potential flow . sovereignty Vostok spacecraft . secondary flow Vostok 2 spacecraft trapped vortices soft landing spacecraft vowels turbulence . Vostok spacecraft RT consonants (speech) vortex sheets .. Vostok 2 spacecraft grammars vortices languages Vostok 3 spacecraft words (language) GS manned spacecraft vorticity equations Vostok spacecraft Dynamic equations for the rate of ... Vostok 3 spacecraft Voyager 1 spacecraft change on the vorticity of a parcel, obtained by reentry vehicles DEF A spacecraft launched in the 1977 Voytaking the curl of the vector equation of motion. ager mission. . recoverable spacecraft analysis (mathematics) interplanetary spacecraft ... Vostok spacecraft . real variables Vostok 3 spacecraft Voyager 1 spacecraft . . differential equations unmanned spacecraft soft landing spacecraft ... vorticity equations . Vostok spacecraft . space probes ... Helmholtz vorticity equation . . Vostok 3 spacecraft Voyager 1 spacecraft flyby missions Grand Tours flow equations . vorticity equations
. . Helmholtz vorticity equation Vostok 4 spacecraft GS manned spacecraft Jupiter (planet) Jupiter probes RT ∞ equations Vostok spacecraft

. . Vostok 4 spacecraft

Jupiter rings

Karman vortex street

∞ spacecraft

Voyager 2 spacecraft
DEF A spacecraft launched in the 1977 Voyager mission.

GS interplanetary spacecraft

#### . Voyager 2 spacecraft unmanned spacecraft

. space probes

. Voyager 2 spacecraft

flyby missions **Grand Tours** Jupiter (planet) Jupiter probes Neptune (planet) Saturn (planet)

**Úranus** (planet)

Voyager 1977 mission

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.

GS 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 USE CH-46 helicopter

VR (virtual reality) USE virtual reality

### VSAT (network)

very small aperture terminals

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

USE vertical takeoff aircraft

#### Vulcan aircraft

UF AVRO 698 aircraft

GS attack aircraft

. bomber aircraft

Vulcan aircraft Hawker Siddeley aircraft

Vulcan aircraft

jet aircraft

Vulcan aircraft

tailless aircraft

Vulcan aircraft

RT ∞ aircraft

AVRO 707 aircraft Harrier aircraft

vulcanizates

USE vulcanized elastomers

# 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

DEF 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

RT curing vulcanized elastomers

# vulnerability

vulnerability GS

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 ∞ aircraft

# VZ-8 aircraft

Airgeep aircraft 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 USE	Wolf-Rayet stars		vortex alleviation vortices		gates (openings) housings
14/		Walsa			limiters (fusion reactors)
W wing	s variable sweep wings	Wales	d Navambar 1000)		panels
USL	variable sweep willigs		nd November 1989) nations		partitions (structures) sandwich structures
W2F air	rcraft	ao	. United Kingdom		sheaths
USE	E-2 aircraft		Wales		shells (structural forms)
		RT	Europe		sides
	n River Basin (IL-IN-OH)				studs (structural members)
GS	landforms . structural basins	walking	locomotion		substructures
	. river basins	GS	. walking		tiles
	Wabash River Basin (IL-IN-OH)	RT	gait	Walsh	function
RT	Illinois		physical exercise	GS	analysis (mathematics)
	Indiana		running		. complex variables
	Ohio				orthogonal functions
	rivers		machines		Walsh function
wadis		GS	surface vehicles . walking machines		functions (mathematics)
DEF	A term used in the desert regions of	RT	astronaut maneuvering equipment		. orthogonal functions Walsh function
Southw	est Asia and Northern Africa for a stream		gait	RT	fast Fourier transformations
	channel, or a steep sided and bouldery		lunar surface vehicles		Fourier transformation
	gully or valley, or a dry wash, that is	∞	machinery		functional analysis
	dry except during the rainy season and en forms an oasis.		manned lunar surface vehicles		matrices (mathematics)
GS	landforms		prosthetic devices	WAN	
ao	. structural basins	wall flow	v	USE	wide area networks
	river basins		fluid flow	002	mae area nement
	wadis		. wall flow	Wankel	engines
RT	arid lands	RT	boundary layer flow	GS	engines
	desertification		channel flow		. internal combustion engines
	rivers		conical flow		rotary engines Wankel engines
	streams		discharge coefficient	RT	aircraft engines
	topography valleys		ducted flow Goertler instability	111	automobile engines
	water runoff		heat transmission		piston engines
			Manning theory		
wafers			two dimensional flow	war ga	
RT	microelectronics		two dimensional jets	GS	games
	microminiaturization	well into		RT	. war games digital simulation
	miniaturization photomasks	wall jets RT	fluid amplifiers	nı	game theory
	semiconductor devices	П	jet boundaries		mathematical models
	solid state devices		jet flow		operations research
	thin films		jet vanes		simulation
	vertical junction solar cells	∞	jets		
				warfare GS	warfare
wage s	reports	wall pre GS	pressure	do	. antiship warfare
ao	. wage surveys	GS	. wall pressure		. antisubmarine warfare
	surveys	RT	boundary layers		. chemical warfare
	. wage surveys		pressure distribution		. combat
RT	cost analysis		pressure vessels		. electronic warfare
	cost estimates		thick walls	DT	. nuclear warfare
	cost reduction	wall tam	pperature	RT	attacking (assaulting)
	employee relations finance		surface properties		B-1 aircraft chemical defense
	personnel	ao	. surface temperature		evasive actions
	percernier		wall temperature		infiltration
wakefu	Iness		temperature		international law
RT	alertness		. surface temperature		ordnance
	sleep deprivation		wall temperature		peacetime
wakes		RT	Brinkman number operating temperature		politics strategy
GS	wakes		thick walls		violence
	. aircraft wakes		thor wallo		
	helicopter wakes	Wallops	Island	warhea	
	slipstreams		landforms		Originally the parts of the missile car
	propeller slipstreams		. islands		e explosive, chemical, or other charge
	. hypersonic wakes	DT	Wallops Island		d to damage the enemy. By extension
	. laminar wakes . near wakes	RT	Atlantic Ocean Virginia		n is sometimes used as synonymous wit I or nose cone.
	. supersonic wakes		Virginia		weapons
	. turbulent wakes	walls			. warheads
	slipstreams	UF	cold walls		nuclear warheads
	propeller slipstreams	GS	walls		precision guided projectiles
RT	backwash		. bulkheads	RT	ammunition
	base flow		. nozzle walls		antiship warfare
	bubbles cavitation flow		. porous walls . thick walls		bombs (ordnance) explosive devices
	contrails		. thin walls		explosive devices explosives
	downwash		. Trombe walls	0	∘ fuses
0	∘ draft		. wind tunnel walls		fuses (ordnance)
	drag	RT ∞	barriers		missile components
	ground effect (aerodynamics)		buildings		missiles
	horseshoe vortices		curtains		nose cones
	Strouhal number		enclosures		nuclear devices
	turbulence		floors		nuclear weapons

	payloads		∞ systems		wrought alloys
	projectiles		threat evaluation		meag.n aneye
	rockets		in out orangement		
	shaped charges	warpag	10	waste o	disposal
	1 0				disposal
	torpedoes	RT	bending	do	
			buckling		waste disposal
	poded animals		camber		composting
USE	homeotherms		damage		hazardous material disposal (in
			deformation		space)
warm fro	onts		distortion		management
GS	fronts (meteorology)		growth		. waste management
	. warm fronts		<u> </u>		waste disposal
	air masses		heaving		composting
			plastic deformation		
	cold fronts		shrinkage		hazardous material disposal (in
! :	fronts		structural strain		space)
	meteorological parameters		surface distortion	RT	air pollution
	meteorology		thermal expansion		deep well injection (wastes)
	storms		twisting		dewatering
	synoptic meteorology		twicting		dilution
	thunderstorms	∞ washe	<b>*</b> 0		dissipation
	tornadoes	SN	(USE OF A MORE SPECIFIC TERM IS		drainage
	weather forecasting		RECOMMENDEDCONSULT THE TERMS		effluents
		RT	LISTED BELOW)		elimination
varming		nı	washers (cleaners)		environment effects
USE	heating		washers (spacers)		environment pollution
	3				environment protection
warning		washe	rs (cleaners)		environmental chemistry
	aggident provention	RT	cleaners		
	accident prevention		concentrators		environmental cleanup
	auditory signals		extraction		environmental engineering
	bells				environmental surveys
	civil defense		separators		exhaust gases
	collision avoidance	•	∞ washers		exhaust systems
	detection		washing		garbage
	detectors				0 0
		washe	rs (spacers)		hazardous materials
	early warning systems	GS	fasteners		hazardous wastes
	fire prevention	ao			human wastes
	horns	БТ	washers (spacers)		incinerators
	mine detectors	RT	inserts		industrial wastes
	monitors		separators		landfills
	protection		spacers		
			∞ washers		manures
	safety				materials handling
	safety devices	washir			metabolic wastes
					mines (excavations)
varning (	devices	UF	scrubbing		Modular Integrated Utility System
_	warning systems	GS	cleaning		
002	manning dyotomo		. washing		pipelines
ina	airmala		bathing		plasma core reactors
varning :		RT	beneficiation		pollution
USE	warning systems	111			ponds
			decontamination		radioactive wastes
Narning	Star aircraft		dissolving		sanitation
USE	C-121 aircraft		distillation		
			elution		sewage
vornina	ovotomo		flushing		sewage treatment
	systems		housekeeping (spacecraft)		sewers
	alarms		purification		soil pollution
	collision warning devices		•		solid wastes
	warning devices		scrubbers		space flight feeding
	warning signals	•	∞ separation	c	∘ storage
	warning systems		washers (cleaners)		sumps
	. early warning systems		waste water		
	Ballistic Missile Early Warning				toilets
		Washir	agton		utilities
	System		nations		wastes
	. mine detectors	GS			water pollution
	accident prevention		. United States		
	auditory signals		Washington		
	avoidance	RT	Cascade Range (CA-OR-WA)	waste e	energy utilization
	bells		Columbia River Basin (ID-OR-WA)	GS	utilization
	civil defense			ao	
	collision avoidance	wachou	ıt (radioactivity)	DT	waste energy utilization
			fallout	RT	boilers
	detection	USE	iallout		burners
∞	detectors				chimneys
	display devices	WASP	sounding rocket		cogeneration
	explosions	UF	high altitude sounding projectile		energy conversion
	false alarms		window atmosphere sounding		
			projectile		exergy
	fire prevention	00			exhaust gases
	fires	GS	rocket vehicles		furnaces
	gas detectors		. multistage rocket vehicles		heat transfer
	hazards		WASP sounding rocket		heating
	head-up displays		. sounding rockets		incinerators
	horns		WASP sounding rocket		lighting equipment
	monitors	RT	Loki rocket vehicle		0 0
1		111			ovens
	National Severe Storms Project		solid propellant rocket engines		solid wastes
	pollution monitoring				space heating (buildings)
	protection	Waspa	loy		waste heat
	public address systems	GS	alloys		wastes
	safety		. heat resistant alloys		
	•		Waspaloy		
	safety devices				
	safety management		. nickel alloys	waste h	
	sanitation		Waspaloy	RT	energy technology
	sirens	RT	chromium alloys		heat exchangers
	sound generators		cobalt alloys		heat pumps
	~		-		· · · ·

	waste energy utilization		air pollution		oxides
waste n	nanagement		beneficiation		peninsulas
	ed March 1997)		by-products combustion products		pollution precipitation (meteorology)
GS	management		contaminants		runway conditions
	. waste management		debris		slush
	waste disposal		effluents		sounds (topographic features)
	composting		environment effects		steam
	hazardous material disposal (in space)		exhaust gases		straits
	waste treatment		forest fires fumes		utilities water sampling
	sewage treatment		gas recovery		water splitting
	waste utilization		impurities		watersheds
RT	environment management		leakage		wharves
	environmental engineering		losses		windpowered pumps
	landfills life support systems		nonpoint sources	water	adanaa
	materials recovery		organic wastes (fuel conversion) pollution	GS	palance balance
	reclamation		residues	ao	. material balance
	recycling		scrap		water balance
	sanitation		sewers	RT	body fluids
	underground storage		slags		edema
	wastes		sludge	•	∞ equilibrium
waste t	reatment		waste disposal waste energy utilization		homeostasis hydrometeorology
	The processing of waste materials (liq-		waste management		lysimeters
	solid) with chemicals, high temperature,		waste treatment		osmosis
	g, grinding, and filtering equipment, bac-		waste utilization		urination
	tion, dryers, separators, for conversion				
	I products.	watches			circulation
GS	management . waste management	USE	clocks	GS	circulation . water circulation
	waste treatment				water currents
	sewage treatment	water			ocean currents
RT	bacteria	DEF	Dihydrogen oxide (molecular formula		coastal currents
	composting		ne word is used ambiguously to refer to		el Nino
	environmental cleanup		mical compound in general and to its ase; when the former is meant, the term		Gulf Stream
	garbage residues		bstance is often used.		Lomonosov current
	sludge		water	RT	thermohaline circulation lakes
~	reatment		. cold water	111	oceanography
	wastes		. deep water		pollution transport
			. fresh water		wind effects
	tilization		. heavy water		
GS	management		. inland waters ground water	water o	
	. waste management waste utilization		. extraterrestrial water	GS	electromagnetic properties
	utilization		. light water		. optical properties color
	. waste utilization		. nearshore water		water color
RT	biomass energy production		coastal water	RT	Coastal Zone Color Scanner
	composting		. polywater		dissolved organic matter
	hydrocarbon fuel production		. potable water		lakes
	industrial wastes landfills		. sea water . shallow water		ocean color scanner
	manures		. shoals		oceans rivers
	renewable energy		. springs (water)		Sea-viewing Wide Field-of-view
	solid wastes		. surface water		Sensor
	wastes		. vadose water		
waste v	ratar	RT	. waste water		consumption
GS	vater wastes	RI.	aquifers arroyos	GS	consumption . water consumption
ao	. liquid wastes		bay ice	RT	drought
	waste water		body fluids		irrigation
	water		cavitation flow		seepage
	. waste water		fiords		
RT	bathing		humidity	water c	
	cleaning		hydrates hydraulics	USE	moisture content
	flushing industrial wastes		hydrodynamics	water o	cooled reactors
	residues		hydrogen bonds	UF	physical constants testing reactor
	washing		hydrogen compounds	GS	nuclear reactors
	water cooled reactors		hydrology		. liquid cooled reactors
			hydromechanics		water cooled reactors
wastes	wester		hydrostatics		boiling water reactors
GS	wastes . garbage		ice isthmuses		experimental boiling water reactors
	. industrial wastes		Lake Erie		Halden Boiling Water Reactor
	. liquid wastes		Lake Huron		Los Alamos Water Boiler
	urine		lake ice		Reactor
	waste water		Lake Michigan		Pathfinder nuclear reactor
	. manures		Lake Ontario		Spert reactors
	. metabolic wastes		Lake Superior		heavy water reactors
	human wastes feces		laterites life support systems		heavy water components test reactors
	urine		limnology		plutonium recycle test reactor
	. hazardous wastes		liquids		zero power reactor 2
	. radioactive wastes		moderators		light water reactors
	. sewage		moisture		NRX reactors
5-	. solid wastes		moisture content		Plum Brook Reactor
RT	activated sludge		muskegs		pressurized water reactors

	spectral shift control reactor		pipelines		watersheds
	swimming pool reactors		rams (pumps)		
	zero power reactors		surges	water n	nasers
	zero power reactor 2		valves	GS	
	zero power reactor 3		1	ao	. water masers
	zero power reactor 6	water h	•		stimulated emission devices
	zero power reactor 9	DEF	3		
RT	chemical reactors		ng solar technology.		. masers
	nuclear engine for rocket vehicles	GS	heating	ОТ	water masers
0	o reactors		. water heating	RT	gas lasers
	waste water	RT	domestic energy		gas masers
			geothermal energy extraction		interstellar masers
water co	poling		heat exchangers		maser outputs
USE	liquid cooling		∞ heaters		
			heating equipment	water n	noderated reactors
water c	urrents		residential energy	GS	nuclear reactors
DEF	Net transport of water along a defin-		temperature control	do	
	th. Used for currents (oceanography).		,		. water moderated reactors
UF	currents (oceanography)	water i	mmersion		experimental boiling water reactors
GS	circulation	RT	baths		heavy water components test
	. water circulation		liquid cooling		reactors
	water currents		quenching (cooling)		plutonium recycle test reactor
	ocean currents		sinking	RT	light water reactors
	coastal currents		∞ soaking		
	el Nino		submerged bodies	wotor	allution
			. • • • · · · · · · · · · · · · · · · ·		oollution
	Gulf Stream		submerging	GS	pollution
	Lomonosov current		underwater tests		. environment pollution
RT	arroyos		-1		water pollution
0	o currents		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
	surface waves	RT	gas injection		contamination
	tides		perforating		dissolved organic matter
	upstream		thrust augmentation		drought
	upstream		g		
water	vala (hydrology)	∞ water i	intakes		environment effects
	vcle (hydrology)	SN	(USE OF A MORE SPECIFIC TERM IS		environment protection
USE	hydrological cycle	0.1	RECOMMENDEDCONSULT THE TERMS		environmental chemistry
			LISTED BELOW)		environmental cleanup
	eprivation	RT	air intakes		environmental quality
GS	deprivation		intake systems		environmental surveys
	. water deprivation		manifolds		inland waters
			nose inlets		landfills
water d	epth		plenum chambers		limnology
RT	cnoidal waves		scoops		lysimeters
			300003		lysiilicicis
	coastal water		cido inlote		marina recourage
	coastal water		side inlets		marine resources
	lakes				oil slicks
	lakes nearshore water	water je	ets		oil slicks phytoplankton
	lakes nearshore water oceans	water je USE			oil slicks phytoplankton pollution monitoring
	lakes nearshore water oceans shallow water	USE	ets hydraulic jets		oil slicks phytoplankton
	lakes nearshore water oceans	USE water I	ets hydraulic jets anding		oil slicks phytoplankton pollution monitoring
	lakes nearshore water oceans shallow water shoals	USE	ets hydraulic jets anding landing		oil slicks phytoplankton pollution monitoring pollution transport
water e	lakes nearshore water oceans shallow water shoals rosion	USE water I	ets hydraulic jets anding		oil slicks phytoplankton pollution monitoring pollution transport purity
water e	lakes nearshore water oceans shallow water shoals	USE water I	ets hydraulic jets anding landing		oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution
	lakes nearshore water oceans shallow water shoals rosion	USE water I GS	ets hydraulic jets anding landing . water landing		oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal
	lakes nearshore water oceans shallow water shoals rosion erosion	USE water I GS	hydraulic jets anding landing . water landing aircraft landing crash landing		oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution
GS	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos	USE water I GS	hydraulic jets anding landing . water landing aircraft landing crash landing ditching (landing)		oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal
GS	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons	USE water I GS	hydraulic jets anding landing water landing aircraft landing crash landing ditching (landing) glide landings	water p	oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal
GS	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns	USE water I GS	hydraulic jets  anding landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing		oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling
GS	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage	USE water I GS	hydraulic jets  anding landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing horizontal spacecraft landing		oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure pressure
GS	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage rain impact damage	USE water I GS	hydraulic jets  anding landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing horizontal spacecraft landing hydroplaning		oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure pressure fluid pressure
GS	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage rain impact damage ravines	USE water I GS	hydraulic jets  anding landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing horizontal spacecraft landing hydroplaning planetary landing	GS	oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure pressure fluid pressure water pressure
GS	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage rain impact damage ravines soil erosion	USE water I GS	hydraulic jets  anding landing . water landing aircraft landing ditching (landing) glide landings hard landing horizontal spacecraft landing hydroplaning planetary landing soft landing	GS	oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure pressure fluid pressure water pressure hydraulics
GS	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage rain impact damage ravines	USE water I GS	hydraulic jets  anding landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing horizontal spacecraft landing hydroplaning planetary landing spacecraft landing spacecraft landing	GS	oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure pressure fluid pressure bydraulics hydrodynamics
GS RT	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage rain impact damage ravines soil erosion wind erosion	USE water I GS	hydraulic jets  anding landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing horizontal spacecraft landing hydroplaning planetary landing soft landing spacecraft landing spacecraft recovery	GS	oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure fluid pressure water pressure hydrodynamics hydrodynamics hydrostatic pressure
GS RT	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage rain impact damage ravines soil erosion wind erosion	USE water I GS	hydraulic jets  anding landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing horizontal spacecraft landing hydroplaning planetary landing soft landing spacecraft landing spacecraft recovery splashing	GS	oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure fluid pressure fluid pressure hydraulics hydrodynamics hydrostatic pressure hydrostatics
GS RT	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage rain impact damage ravines soil erosion wind erosion  ow fluid flow	USE water I GS	hydraulic jets  anding landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing horizontal spacecraft landing hydroplaning planetary landing soft landing spacecraft landing spacecraft recovery	GS	oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure pressure fluid pressure water pressure hydrodynamics hydrodynamics hydrostatic pressure hydrostatics inlet pressure
GS RT	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage rain impact damage ravines soil erosion wind erosion  ow fluid flow . liquid flow	USÉ water I GS RT	hydraulic jets anding landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing horizontal spacecraft landing hydroplaning planetary landing soft landing spacecraft landing spacecraft recovery splashing touchdown	GS	oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure fluid pressure fluid pressure hydraulics hydrodynamics hydrostatic pressure hydrostatics
GS RT water fl GS	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage rain impact damage ravines soil erosion wind erosion  ow fluid flow . liquid flow . water flow	USE water I GS	hydraulic jets  anding landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing horizontal spacecraft landing hydroplaning planetary landing soft landing spacecraft landing spacecraft recovery splashing touchdown	GS	oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure pressure fluid pressure water pressure hydrodynamics hydrodynamics hydrostatic pressure hydrostatics inlet pressure
GS RT	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage rain impact damage ravines soil erosion wind erosion  ow fluid flow . water flow alluvium	USÉ water I GS RT	hydraulic jets  anding landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing horizontal spacecraft landing hydroplaning planetary landing soft landing spacecraft landing spacecraft recovery splashing touchdown  oss dehydration	GS. RT∘	oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure pressure fluid pressure whydraulics hydrodynamics hydrostatic pressure hydrostatics inlet pressure pipe flow
GS RT water fl GS	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage rain impact damage ravines soil erosion wind erosion  ow fluid flow . liquid flow . water flow alluvium canals	USÉ water I GS RT	hydraulic jets  anding landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing horizontal spacecraft landing hydroplaning planetary landing soft landing spacecraft landing spacecraft recovery splashing touchdown	GS RT ∘	oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure pressure
GS RT water fl GS	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage rain impact damage ravines soil erosion wind erosion  ow fluid flow . water flow alluvium	USÉ water I GS RT	hydraulic jets  anding landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing horizontal spacecraft landing hydroplaning planetary landing soft landing spacecraft landing spacecraft recovery splashing touchdown  oss dehydration	GS RT ∘	oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure pressure fluid pressure whydraulics hydrodynamics hydrostatic pressure hydrostatics inlet pressure pipe flow
GS RT water fl GS	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage rain impact damage ravines soil erosion wind erosion  ow fluid flow . liquid flow . water flow alluvium canals	USÉ water I GS RT	hydraulic jets  anding landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing horizontal spacecraft landing hydroplaning planetary landing soft landing spacecraft landing spacecraft recovery splashing touchdown  oss dehydration drying	GS RT ∘	oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure pressure
GS RT water fl GS	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage rain impact damage rain impact damage ravines soil erosion wind erosion  ow fluid flow . liquid flow . water flow alluvium canals drainage	USÉ water I GS RT	hydraulic jets  anding landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing horizontal spacecraft landing hydroplaning planetary landing spacecraft landing spacecraft landing spacecraft recovery splashing touchdown  oss dehydration drying evaporation	GS RT •  water p USE	oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure pressure fluid pressure water pressure hydraulics hydrodynamics hydrodynamics hydrostatic pressure hydrostatics inlet pressure pipe flow  purification water treatment
GS RT water fl GS	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage rain impact damage ravines soil erosion wind erosion  ow fluid flow . liquid flow water flow alluvium canals drainage drainage patterns	Water I GS RT Water I	hydraulic jets  anding landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing horizontal spacecraft landing hydroplaning planetary landing spacecraft landing spacecraft landing spacecraft recovery splashing touchdown  oss dehydration drying evaporation	GS RT •  water p USE  water q	oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure pressure fluid pressure water pressure hydrodynamics hydrodynamics hydrostatic pressure pipe flow  purification water treatment
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GS RT water fl GS RT	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage rain impact damage ravines soil erosion wind erosion  ow fluid flow . liquid flow . water flow alluvium canals drainage drainage patterns flood damage floods flow measurement Great Lakes (North America) ground water hydraulics	water I RT water I RT water I	hydraulic jets  anding landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing horizontal spacecraft landing hydroplaning planetary landing soft landing spacecraft landing spacecraft recovery splashing touchdown  oss dehydration drying evaporation losses  management management management . water management conservation drought	Water p USE  water q GS	oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure pressure fluid pressure water pressure hydrodynamics hydrodynamics hydrostatic pressure hydrostatics inlet pressure pipe flow  purification water treatment  quality quality quality water quality alkalinity environment effects
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GS RT water fl GS RT	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage rain impact damage ravines soil erosion wind erosion  ow fluid flow . water flow alluvium canals drainage drainage patterns flood damage floods floods flow measurement Great Lakes (North America) ground water hydraulics hydrology models open channel flow	water I RT water I RT water I	hydraulic jets  anding landing landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing horizontal spacecraft landing hydroplaning planetary landing soft landing spacecraft recovery splashing touchdown  oss  dehydration drying evaporation losses  management management management conservation drought environment management floods hydrology	water p USE water q GS	oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure pressure fluid pressure water pressure hydrodynamics hydrodynamics hydrostatic pressure hydrostatics inlet pressure pipe flow  purification water treatment  puality quality quality water quality alkalinity environment effects water sampling
GS RT water fl GS RT	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage rain impact damage ravines soil erosion wind erosion  ow fluid flow . liquid flow . water flow alluvium canals drainage patterns flood damage frainage description flow flow flow flow flow flow flow flow	water I RT water I RT water I	hydraulic jets  anding landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing horizontal spacecraft landing hydroplaning planetary landing soft landing spacecraft landing spacecraft recovery splashing touchdown  oss dehydration drying evaporation losses  management management conservation drought environment management floods hydrology Lake Erie	water p USE water q GS	oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure pressure fluid pressure water pressure hydrodynamics hydrodynamics hydrostatic pressure hydrostatics inlet pressure pipe flow  purification water treatment  quality quality quality water quality alkalinity environment effects
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GS RT water fl GS RT	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage rain impact damage ravines soil erosion wind erosion  ow fluid flow . liquid flow . water flow alluvium canals drainage drainage drainage floods flow measurement Great Lakes (North America) ground water hydraulics hydrodynamics hydrology models open channel flow pipe flow	water I RT water I RT water I	hydraulic jets  anding landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing horizontal spacecraft landing hydroplaning planetary landing soft landing spacecraft landing spacecraft recovery splashing touchdown  oss dehydration drying evaporation losses  management management management . water management conservation drought environment management floods hydrology Lake Erie Lake Huron	water p USE water q GS	oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure pressure fluid pressure water pressure hydrodynamics hydrostatic pressure hydrostatics inlet pressure pipe flow  purification water treatment  puality quality environmental quality alkalinity environment effects water sampling  eclamation water recovery
GS RT water fl GS RT	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage rain impact damage ravines soil erosion wind erosion  ow fluid flow . liquid flow . water flow alluvium canals drainage drainage drainage patterns flood damage floods flow measurement Great Lakes (North America) ground water hydraulics hydrodynamics hydrology models open channel flow pipe flow rapids	water I RT water I RT water I	hydraulic jets  anding landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing horizontal spacecraft landing hydroplaning planetary landing spacecraft landing spacecraft landing spacecraft recovery splashing touchdown  oss dehydration drying evaporation losses  management management conservation drought environment management floods hydrology Lake Erie Lake Huron Lake Michigan	water p USE water q GS RT	oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure pressure water pressure water pressure bydrodynamics hydrostatic pressure hydrostatics inlet pressure pipe flow  purification water treatment  quality quality water quality alkalinity environment effects water recovery reclamation
GS RT water fl GS RT	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage rain impact damage ravines soil erosion wind erosion  ow fluid flow . water flow alluvium canals drainage drainage patterns flood damage floods flow measurement Great Lakes (North America) ground water hydraulics hydrodynamics hydrology models open channel flow pipe flow rapids watersheds	water I RT water I RT water I	hydraulic jets  anding landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing horizontal spacecraft landing hydroplaning planetary landing spacecraft landing spacecraft landing spacecraft recovery splashing touchdown  oss  dehydration drying evaporation losses  management management management conservation drought environment management floods hydrology Lake Erie Lake Huron Lake Michigan Lake Ontario	water p USE water q GS RT	oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure pressure . fluid pressure . water pressure . hydrodynamics hydrodynamics hydrostatic pressure hydrostatics inlet pressure pipe flow  urification water treatment  quality quality . environmental quality water quality alkalinity environment effects water sampling  eclamation water recovery reclamation . materials recovery
GS RT water fl GS RT	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage rain impact damage ravines soil erosion wind erosion  ow fluid flow . liquid flow . water flow alluvium canals drainage drainage drainage floods flow measurement Great Lakes (North America) ground water hydraulics hydrodynamics hydrology models open channel flow pipe flow rapids watersheds  ammer	water I RT water I RT water I	hydraulic jets  anding landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing horizontal spacecraft landing hydroplaning planetary landing soft landing spacecraft recovery splashing touchdown  oss dehydration drying evaporation losses  management management management . water management conservation drought environment management floods hydrology Lake Erie Lake Huron Lake Michigan Lake Ontario Lake Superior	water p USE  water q GS  RT	oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure pressure fluid pressure water pressure hydrodynamics hydrodynamics hydrostatic pressure hydrostatics inlet pressure pipe flow  purification water treatment  quality quality quality water quality alkalinity environment effects water sampling  eclamation water recovery reclamation materials recovery water reclamation
GS RT water fl GS RT	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage rain impact damage ravines soil erosion wind erosion  ow fluid flow . liquid flow . water flow alluvium canals drainage drainage patterns flood damage floods flow measurement Great Lakes (North America) ground water hydraulics hydrology models open channel flow pipe flow rapids watersheds  ammer hydraulic equipment	water I RT water I RT water I	ets hydraulic jets  anding landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing horizontal spacecraft landing hydroplaning planetary landing soft landing spacecraft recovery splashing touchdown  oss dehydration drying evaporation losses  management management management . water management conservation drought environment management floods hydrology Lake Erie Lake Huron Lake Michigan Lake Ontario Lake Superior limnology	water p USE water q GS RT	oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure fluid pressure fluid pressure water pressure hydrodynamics hydrodynamics hydrodytatics inlet pressure pipe flow  purification water treatment  quality quality environmental quality water quality alkalinity environment effects water sampling  eclamation water recovery reclamation materials recovery water reclamation conservation
GS RT water fl GS RT	lakes nearshore water oceans shallow water shoals  rosion erosion . water erosion arroyos canyons drainage patterns flood damage rain impact damage ravines soil erosion wind erosion  ow fluid flow . liquid flow . water flow alluvium canals drainage drainage drainage floods flow measurement Great Lakes (North America) ground water hydraulics hydrodynamics hydrology models open channel flow pipe flow rapids watersheds  ammer	water I RT water I RT water I	hydraulic jets  anding landing . water landing aircraft landing crash landing ditching (landing) glide landings hard landing horizontal spacecraft landing hydroplaning planetary landing soft landing spacecraft recovery splashing touchdown  oss dehydration drying evaporation losses  management management management . water management conservation drought environment management floods hydrology Lake Erie Lake Huron Lake Michigan Lake Ontario Lake Superior	water p USE  water q GS  RT	oil slicks phytoplankton pollution monitoring pollution transport purity soil pollution thermal pollution waste disposal water sampling  pressure pressure fluid pressure water pressure hydrodynamics hydrodynamics hydrostatic pressure hydrostatics inlet pressure pipe flow  purification water treatment  quality quality quality water quality alkalinity environment effects water sampling  eclamation water recovery reclamation materials recovery water reclamation

	pollution	•	∞ subsonic aircraft		ballistic missile submarines
			transport aircraft		guided missile submarines
water re USE	ecovery water reclamation		utility aircraft		trident submarine underwater research laboratories
USE	water reciamation	water t	emperature	RT	
water r	esources		temperature	n i	amphibious vehicles harbors
	resources	ao	. water temperature		marine transportation
	. Earth resources		ocean temperature		∞ military vehicles
	water resources		sea surface temperature		research vehicles
	aquifers	RT	surface temperature		shipyards
RT	environment effects		temperature distribution		surface vehicles
	environment management		thermal pollution		∞ vehicles
	Great Lakes (North America)				
	ground water		reatment	water v	
	hydrology	UF	water purification	GS	
	inland waters	RT	activated carbon	DT	. tidal waves
	International Hydrological Decade		adsorption aeration	RT	breakwaters
	lakes				capillary waves cnoidal waves
	limnology oceans		agitation 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		filtration		surface waves
	windpowered pumps		flocculating		tsunami waves
			flotation		water tunnel tests
water r			ion exchanging		waterwave energy
RT	drainage		material absorption		waterwave energy conversion
	ground water inland waters		pollution potable water		waterwave powered machines
	resources management		purification	,	∞ waves
	rivers	,	∞ screening	water v	wheels
	wadis	`	settling		wheels
			sewage	0.0	. water wheels
water s	ampling		∞ treatment	RT	hydroelectric power stations
	ed March 1998)				turbine wheels
DEF	The process of obtaining a represen-	water t	unnel tests		
tative sa	ample of water from any natural or artifi-	RT	air water interactions	waterfo	owl
	rironment.		cross flow	GS	animals
GS	sampling		flow distribution		. vertebrates
	water sampling		flow visualization		birds
RT	environmental monitoring		strakes		waterfowl
	ground water		∞ tests	RT	
	pollution monitoring		water waves		coastal ecology
	sea water		wind tunnel tests		marine biology
	surface water	water t	umnala		marine environments
	water water pollution	water to			marshlands migration
	water quality	USE	hydraulic test tunnels		oceanography
	water quality	water v	/anor		wetlands
water s	plitting		Water (H20) in gaseous form. Also		Wellands
	led September 1988)		aqueous vapor.	waterp	roofing
GS	splitting		vapors		barrier layers
	. water splitting		. water vapor		caulking
RT	electrolysis	RT	atmospheric moisture		coatings
	hydrogen fuels		dew		hydrophobicity
	hydrogen production		humidity		insulation
	thermochemistry		mixing ratios		moisture resistance
	water		moisture		protective coatings
	. 1. 1		moisture content		sealing
water t	ables aquifers		steam		weatherproofing
ΠI	•	water	vehicles	waters	hade
	drainage ground water	GS Water v		Waters	catchment areas
	potable water	ao	. boats	GS	landforms
	springs (water)		lifeboats	GG	. 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		Savannah nuclear ship		mountains
	ground effect machines		satellite communications ships		ponds
	hovercraft ground effect machines		submarines		precipitation (meteorology)
	light aircraft		ballistic missile submarines		rain
	monoplanes		guided missile submarines		rivers
	passenger aircraft reconnaissance aircraft		trident submarine surface effect ships		rivers
	S-61 helicopter		SWATH (ship)		storms (meteorology) valleys
	sea launching		. underwater vehicles		water
	submersible aircraft		submarines		water flow
	SabSioibio anotan				

water management water tables

waterwave energy

GS renewable energy

waterwave energy clean energy

Earth resources

∞ energy oceanography tidepower water waves

waterwave energy conversion
GS energy conversion
. waterwave energy conversion

 $RT \, \infty \, conversion$ 

∞ waves

Earth resources

energy conversion efficiency

 ${\scriptstyle \infty} \ energy \ sources$ 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

diffraction GS

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

deformation GS

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.

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

wave generation

electromagnetic radiation function generators

∞ generators

time functions

harmonic generations shock wave generators

wave rotors

wave incidence control RT ∞ control

wave interaction GS

incident radiation

wave interaction . shock wave interaction

. wave-particle interactions

acoustic coupling coupling

damping electroacoustic waves

electromagnetic interactions four-wave mixing  $\infty$  interactions intermodulation

modulation

orthogonal multiplexing theory plasma interactions propagation modes

scattering shock wave luminescence shock wave profiles shock wave propagation

wave motion

USE waves

wave oscillators USE oscillators

wave packets

RT longitudinal waves packets (communication) plasma waves quantum mechanics transverse waves

wave propagation

Kirchhoff-Huygens principle UF

GS transmission

#### . 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

computational aeroacoustics

conduction

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

GS reflection

#### . wave reflection . Mach reflection

ground effect (communications)

reflected waves

signal reflection spread reflection

# wave resistance

RT blast loads

erosion

impact strength

∞ resistance

structural stability

#### wave rotors

(added March 1998)

Rotor devices that use gasdynamic DFF

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.

GS 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

RT corrugated waveguides dielectric waveguides

lens antennas

microstrip antennas microwave antennas

monopulse antennas radant

slot antennas

Yagi antennas

waveguide filters electromagnetic wave filters

. electric filters

wavequide filters bandstop filters

dielectric waveguides microwave filters

radar filters waveguides

waveguide lasers

GS

Pump sources for deuterium oxide la-DEF sers.

> stimulated emission devices lasers

. . waveguide 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)

∞ windows

waveguides

waveguides

. beam waveguides

circular waveguides . Earth-ionosphere waveguide

. optical waveguides

. . optical fibers

. . . scintillating fibers

. corrugated waveguides

dielectric waveguides . plasmaguides

. 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

DEF 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

1068

submillimeter waves square waves solar neutrinos whispering gallery modes standing waves weapon system 107A-1 stress waves wavelet analysis surface waves GS weapon systems (added September 1993) weapon system 107A-1 surges wavelet transform tidal waves weapon system 107A-2 cosine series transverse waves Fourier analysis tropospheric waves GS weapon systems Fourier transformation vibration weapon system 107A-2 functions (mathematics) water waves Gabor transformation weapon system 133A waterwave energy GS weapon systems image processing wave amplification orthonormal functions weapon system 133A wave excitation signal analysis wave fronts signal encoding weapon system 133B wavelet analysis signal processing GS weapon systems sine waves . weapon system 133B waxes time functions GS waxes weapon system 315A transformations (mathematics) ceresin GS weapon systems ∞ waves RT alkanes . weapon system 315A coatings wavelet transform crude oil weapon system management USE wavelet analysis finishes GS management phase change materials . weapon system management wave-particle interactions project management (added July 1991) weak energy interactions ∞ systems particle interactions GS decay . wave-particle interactions weapon systems
DEF A combination of one or more weapons . weak energy interactions wave interaction . weak interactions (field theory) wave-particle interactions particle interactions with all related equipment, materials, services, beam interactions elementary particle interactions personnel, and means of delivery and deployelectromagnetic interactions weak energy interactions ment (if applicable) required for self-sufficiency. electrostatic waves . weak interactions (field theory) GS weapon systems magnetohydrodynamic waves beta particles . ground operational support system magnetohydrodynamics grand unified theory laser weapons particle acceleration gravitinos . missile systems plasma acceleration ∞ interactions Nike X systems plasma interactions particle theory Safeguard system plasma waves Sentinel system plasma-electromagnetic interaction weak interactions (field theory) Success project plasma-particle interactions One class of the fundamental interac-Typhon weapon system space plasmas tions among elementary particles responsible for beta decay of nuclei, and for the decay of weapon system 107A-1 . weapon system 107A-2 waveriders elementary particles with lifetimes greater than about 10(-10) seconds such as muons, K me-. weapon system 133A aerodynamic configurations GS weapon system 133B waveriders sons, and lambda hypersons; it is several orders of magnitude weaker that the strong and elec-. weapon system 315A RT airfoils RT air to surface missiles caret wings tromagnetic interactions and fails to conserve antiship missiles delta wings strangeness or parity. Used for beta interacfire control hypersonic flight tions. Harpoon missile hypersonic vehicles military aircraft military spacecraft missile launchers UF beta interactions lifting bodies GS decay weak energy interactions ∞ waves . weak interactions (field theory) missiles (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS SN nuclear reactions mobile missile launchers . nuclear interactions nuclear weapons LISTED BELOW) . weak interactions (field theory) UF ordnance crests particle interactions wave motion  $\infty$  rockets baroclinic waves . elementary particle interactions space weapons . . weak energy interactions breakwaters ∞ systems ... weak interactions (field theory) cnoidal waves weapons . nuclear interactions corrugating weapons development . weak interactions (field theory) cylindrical waves CP violation detonation waves weapons electroweak interactions (field theory) dilatational waves GS weapons electroweak model eikonal equation . guns (ordnance) field theory (physics) elastic waves . . artillery grand unified theory electroacoustic waves ... howitzers ∞ interactions electromagnetic radiation ... precision guided projectiles standard model (particle physics) electromagnetic surface waves . rifles strong interactions (field theory) . laser weapons evanescent waves ∞ theories . mines (ordnance) frontal waves . nuclear weapons gravitational waves weakly interacting massive particles . . fission weapons internal waves ionic waves (added November 1999) . . fusion weapons Kelvin waves DEF Hypothetical elementary particles pre-. space weapons dicted by supersymmetry theories, that interact kilometric waves . warheads littoral transport only through gravity and weak-type interactions; . . nuclear warheads postulated to account for dark matter in the . . precision guided projectiles longitudinal waves nodes (standing waves) . biological weapons Universe. RT ammunition plane waves cosmions planetary waves WIMPs (astronomy) antiquities refracted waves particles antiship warfare

. elementary particles

dark matter

. . hypothetical particles

weakly interacting massive

particles

missing mass (astrophysics)

seismic waves

SH waves

shock waves

sound waves

spherical waves

sine waves

armed forces (foreign)

∞ ballistic vehicles

disarmament

gunnery training

fire control

armed forces (United States)

military technology lubricant tests predictions missiles ∞ resistance . forecasting ordnance sliding friction . . weather forecasting Patriot missile toughness ... long range weather forecasting projectiles . . . nowcasting wear wear inhibitors shaped charges . . . numerical weather forecasting wear tests . . statistical weather forecasting shrapnel tanks (combat vehicles) RT air masses Tomahawk missiles wear tests atmospheric models cumulative damage cirrus shields torpedoes destructive tests cloud cover weapon systems cockpit weather information systems weapons delivery erosion wing-fuselage stores ferrography cold fronts fretting environmental monitoring weapons delivery friction flight conditions Total requirements for locating the tarhardness tests flood predictions get, establishing the release conditions, and ∞ materials tests GARP Atlantic Tropical Experiment maintaining to the target (if required); includes quality control hindcasting nindcasting humidity meteorological balloons meteorological flight meteorological radar meteorological satellites meteorological services the detection, recognition, and acquisition of the spalling static tests target, the weapons release as well as guidance ∞ tests GS delivery tribometers . weapons delivery air defense wear resistance RT ∞ aircraft weather nephanalysis defense program military technology UF weather conditions precipitation (meteorology) GS weather snowstorms missile defense cold weather storms . hot weather nuclear weapons storms (meteorology) RT aircraft accidents ∞ rockets synoptic meteorology aircraft hazards space weapons warm fronts weapons aircraft safety wind (meteorology) Alpine meteorology weapons development
GS product development annual variations weather fronts anvil clouds USE fronts (meteorology) . weapons development research and development Atmospheric & Oceanographic Inform weather maps Sys atmospheric pressure atmospheric temperature weapon systems USE meteorological charts weapons industry weather modification cap clouds UF weather control GS industries cirrocumulus clouds weather modification
. cloud dispersal . defense industry GS cirrostratus clouds . . weapons industry armed forces (United States) climate cloud seeding climatology military technology fog dispersal clouds (meteorology) lightning suppression flight hazards wear flight plans rainmaking Damage to a solid surface, generally storm enhancement Global Atmospheric Research involving progressive loss of material, due to Program storm suppression relative motion between that surface and a long term effects artificial clouds contacting substance or substances. meteorological parameters cloud physics RTabrasion meteorology METEOSAT satellite ∞ control chipping environmental control corrosion navigation aids heat islands damage precipitation (meteorology) snowstorms depreciation runway conditions deterioration seasons weather radar durability solar compasses USE meteorological radar erosion solar terrestrial interactions failure weather reconnaissance aircraft space weather flaking reconnaissance aircraft wind (meteorology) fretting corrosion . weather reconnaissance aircraft friction RT ∞ aircraft weather charts grinding (material removal) Global Atmospheric Research USE meteorological charts hardness Program removal weather conditions meteorological instruments scoring USE weather observation aircraft sliding friction weather control weather stations spalling surface finishing USE weather modification UF meteorological stations GS stations ∞ surfaces weather data recorders . weather stations system failures GS data recorders . . automatic weather stations tribology . weather data recorders ground stations wear resistance measuring instruments nstrument packages wear inhibitors . meteorological instruments integrated global ocean station inhibitors . weather data recorders systems GS recording instruments meteorological instruments wear inhibitors retardants . weather data recorders meteorological satellites RT automatic weather stations wear resistance meteorological services ocean data acquisitions systems  $\infty$  data wear resistance telemetry mechanical properties weathering . wear resistance The process of disintegration and deweather forecasting . abrasion resistance GS meteorology composition as a consequence of exposure to . weather forecasting abrasion the atmosphere, to chemical action, and to the

. long range weather forecasting . nowcasting

. . numerical weather forecasting

. . statistical weather forecasting

action of frost water and heat.

weathering

. . space weathering

exposure

boundary lubrication coefficient of friction

deterioration

hardness

RT	corrosion		netting (materials/structures)		. probability density functions
	corrosion tests		paper (material)		Weibull density functions
	curing		papers	RT	exponential functions
	damage degradation		∘ rovings ∘ sheets		fatigue tests sampling
	deterioration		webbing		sampling
	Earth atmosphere	c	∘ webs		trass functions
	erosion		webs (supports)	GS	analysis (mathematics)
	mechanical properties				. real variables
	rusting soil erosion		supports) webs (supports)	RT	Weierstrass functions elliptic functions
	Soil erosion	ao	. girder webs		Jacobi integral
weathe	rproofing	RT	diaphragms (mechanics)		· ·
RT	coatings		elastic sheets	∞ weight	
	cold weather		membrane structures	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS
	corrosion prevention moisture resistance		membranes ribs (supports)	DEE	LISTED BELOW)
	packaging		skin (structural member)	DEF RT	The force exerted on a body by gravity. atomic weights
	preserving		stiffening		biomass
	waterproofing	c	• webs		coefficients
woovin	~		webs (sheets)		payloads
weaving RT	g fabrics	website	as .		weight (mass)
	sewing		ed March 2001)	weight	(mass)
	woven composites		Locations on the World Wide Web	UF	weight factors
			g a collection of linked resources, usu-	GS	weight (mass)
web se	rvices ed May 2007)		uding a homepage, and prepared and		. atomic weights
	A software system designed to support		ned as a collection of information by a group, or organization.		. biomass
	erable machine to machine interactions	UF	web sites		. body weight . organ weight
over a r		GS	resources		. structural weight
GS	computer programs		. Internet resources	RT	center of mass
	. applications programs (computers) web services	DT	websites	c	∞ force
	services	RT	electronic bulletin boards electronic commerce		gravitation
	. web services		information dissemination		loads (forces) low molecular weights
RT	internets		information resources management		mascons
	on-line systems		information systems		mass
	service oriented architecture		internets		molecular weight
	World Wide Web		on-line systems World Wide Web		payloads
web site	es		World Wide Web		pressure volume
(adde	ed March 2001)	wedge	flow	c	∞ weight
USE	websites	GS	fluid flow		<b>G</b>
webbin	a	DT	. wedge flow		analysis
RT	g fabrics	RT	Blasius flow conical flow	RI	∞ analyzing
• • • •	mesh		Falkner-Skan equation		NEW MOONS project preflight analysis
0	∘ webs		flow geometry		structural weight
	webs (sheets)		laminar flow		systems analysis
Weber	test		shock waves		
GS	physiological tests		supersonic flow three dimensional flow	weight	tactors weight (mass)
0.0	. Weber test		two dimensional flow	USE	weight (mass)
RT	auditory perception		viscous flow	weight	indicators
	binaural hearing			ŪF	wind tunnel balances
Wohor	Fechner law	wedges		GS	measuring instruments
	An approximate psychological law re-	RT	aerodynamic configurations airfoil profiles		. indicating instruments weight indicators
	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-		instability		thermobalances
	associated with equal increments of the n of the stimulus, or that the just notice-		An instability of collisionless plasmas erized by the unstable growth of trans-	RT	balance
	rerence in any sensation results from a		lectromagnetic waves and large mag-		mechanical measurement pressure gages
	in the stimulus which bears a constant		ld fluctuation brought about by an aniso-		pressure measurement
	the value of the stimulus.	tropic d	stribution of electronic velocities.	c	∞ scale
GS	laws	GS	dynamic characteristics		strain gages
	. Weber-Fechner law		. dynamic stability		tensometers
webs			motion stability flow stability	weight	measurement
SN	(USE OF A MORE SPECIFIC TERM IS		magnetohydrodynamic stability	UF	microweighing
	RECOMMENDEDCONSULT THE TERMS LISTED BELOW)		Weibel instability	RT	density (mass/volume)
RT	membranes		. flow characteristics		hydrometers
	mesh		flow stability	c	∞ measurement
	webbing		magnetohydrodynamic stability Weibel instability	weight	reduction
	webs (sheets) webs (supports)		stability	RT	aircraft design
	HODO (Supporto)		. dynamic stability		materials selection
webs (n	nembranes)		motion stability		spacecraft design
USE	membranes		flow stability		structural weight
	.h \		magnetohydrodynamic stability Weibel instability		structural weight systems analysis
webs (s	•	RT	plasma interactions		cyclottic analysis
	(EXCLUDES POLYMERIC FILMS AND STRUCTURAL REINFORCEMENTS)				ing functions
RT	diaphragms (mechanics)		density functions	GS	analysis (mathematics)
	elastic sheets fabrics	GS	functions (mathematics) . probability density functions		. real variables measure and integration
~	o films		Weibull density functions		weighting functions
	membranes		statistical analysis		functions (mathematics)

. weighting functions

meshfree methods . . spot welds statistical mechanics beads West comet A comet discovered in 1976. . bonded joints DEF weightless fluids butt joints GS celestial bodies RT ∞ fluids friction stir welding . comets viscous fluids lap joints . West comet riveted joints RT solar system weightlessness weld strength DEF A condition in which no acceleration, weld tests West Ford project whether of gravity or other force, can be de-GS programs welding . projects tected by an observer within the system in question. Used for zero gravity. ... West Ford project welded structures zero gravity welded structures GS aerospace medicine West Germany steel structures Federal Republic of Germany artificial gravity RT rigid structures astronaut performance GS nations ∞ structures ∞ astronautics **West Germany** bioprocessing Alps Mountains (Europe) blackout prevention Azur satellite Joining two or more pieces of metal by body weight Central Europe applying heat, pressure, or both, with or without bone demineralization East Germany filler material to produce a localized union clinorotation Europe through fusion or recrystallization across the containerless melts German Infrared Laboratory German space program disorientation GS welding drop towers Germany . fusion welding electrolyte metabolism . . electric welding environments **West Indies** . . . arc welding GS landforms extravehicular activity . . . . gas tungsten arc welding flight stress (biology) . islands . . . . plasma arc welding . . West Indies free fall . . . electroslag welding gravitation Antigua and Barbuda . . . flash welding gravitational effects ... Bahamas . . electron beam welding intravehicular activity . . . Barbados . . gas welding Cuba life support systems . . . brazing Dominica low weight . . low temperature brazing lower body negative pressure . . . Grenada laser welding Guadeloupe microgravity . pressure welding . . . Haiti neutral buoyancy simulation . . cold welding Jamaica . diffusion welding
. explosive welding
. friction welding parabolic flight Lesser Antilles space adaptation syndrome Martinique space flight stress Puerto Rico space manufacturing . . . friction stir welding Trinidad and Tobago Space Processing Applications . ultrasonic welding Virgin Islands Rocket RT backups Atlantic Ocean spaceborne experiments beads Caribbean region spacecraft environments bonding suborbital flight construction West Virginia fillets nations weightlessness simulation GS flame plating . United States GS simulation fluxes . West Virginia . environment simulation fusibility RT Allegheny Plateau (US) . . space environment simulation heat affected zone Ohio River (US) ... weightlessness simulation ∞ joining Potomac River Valley (MD-VA-WV) .. neutral buoyancy simulation metal bonding clinorotation metal-metal bonding Westar satellites
GS artificial satellites clinostats sealing flight simulation soldering . communication satellites head down tilt torches . Westar satellites head up tilt welded joints RT point to point communication hindlimb suspension telecommunication Langley complex coordinator welding machines telegraph systems parabolic flight RT ∞ electric equipment submerging electric welding Western hemisphere tilt-table test machinery Earth (planet) torches Weinberg-Salam Gauge Model Eastern Hemisphere USE electroweak model geography wells aquifers Westland aircraft weld strength drilling mechanical properties GS Westland aircraft GS ground water weld strength P-531 helicopter limnology . Westland Whirlwind helicopter RT ∞ strength oases weldability RT ∞ aircraft springs (water) helicopters welded joints square wells rotary wing aircraft stratigraphy weld tests V/STOL aircraft RT fatigue tests Wentzel-Kramer-Brillouin method ∞ tests Westland ground effect machines WKB approximation SR-N2 ground effect machine welded joints RT de Broglie wavelengths SR-N3 ground effect machine ∞ methodology SR-N5 ground effect machine weldability perturbation theory Westland SR-N2 ground effect RT brittleness Plancks constant machine ductility heat affected zone Schroedinger equation Westland SR-N2 hovercraft Westland SR-N3 ground effect machine weld strength Weser aircraft

RT ∞ aircraft

helicopters

rotary wing aircraft

.. welded joints

V/STOL aircraft

Westland SR-N3 hovercraft

machine

Westland SR-N5 ground effect

welded joints

GS

joints (junctions)

. metal ioints

## whispering gallery modes

GS ground effect machines	wildlife		human factors engineering
. Westland ground effect machines RT ∞ aircraft	wetness		locomotion ramps (structures)
nı ∞ aliciali	USE moisture content	'	ramps (structures)
Westland MK-10 helicopter		wheels	
USE Westland Whirlwind helicopter	wettability	DEF	Rims fitted with disks for affixment to
33 <u>2</u>	RT adhesion	axles.	
Westland P-531 helicopter	adhesion tests		wheels
USE P-531 helicopter	formations		counter-rotating wheels
•	hydrophobicity		. flywheels . reaction wheels
Westland SR-N2 ground effect machine	hygroscopicity permeability		. toroidal wheels
USE Westland ground effect machines	porosity		turbine wheels
	surface properties		. vehicle wheels
Westland SR-N2 hovercraft	wetting		nose wheels
USE Westland ground effect machines			. water wheels
	wetting		bearings
Westland SR-N3 ground effect machine	RT cooling		brakes (for arresting motion)
USE Westland ground effect machines	dipping		gears
	foaming hydrophobicity		hubs
Westland SR-N3 hovercraft	interfacial tension		landing gear pulleys
USE Westland ground effect machines	∞ saturation		rollers
	∞ soaking		rotors
Westland SR-N5 ground effect machine	soaps		shafts (machine elements)
USE Westland ground effect machines	spraying		spokes
	sprinkling	1	tires
Westland Whirlwind helicopter	submerging		
UF Westland MK-10 helicopter	wet spinning	whip ant	
Whirlwind MK-10 helicopter	wettability		Thin flexible monopole antennas. antennas
GS V/STOL aircraft	whales		antennas . omnidirectional antennas
. rotary wing aircraft helicopters	GS animals		monopole antennas
military helicopters	. vertebrates		whip antennas
Westland Whirlwind helicopter	mammals		radio antennas
Westland aircraft	marine mammals		
. Westland Whirlwind helicopter	whales	whiplash	•
RT ∞ aircraft			injuries
	wharves		. whiplash injuries
wet cells	UF piers		back injuries crash injuries
GS electrochemical cells	RT cargo ships dams		spinal cord injuries
electric batteries	Earth resources	`	opinal cord injunes
wet cells	freighters	whirl	
RT ∞ electric cells	harbors	USE	rotation
electrolytes fuel cells	marine technology		
nonaqueous electrolytes	materials handling	whirl insta	
primary batteries	∞ ports	USE	rotary stability
F,	rivers	whirl tow	vers
wet spinning	ship terminals		helicopter design
DEF The production of synthetic and man-	tanker ships terminal facilities		hovering
made filaments by extruding the chemical solu-	water	I	hovering stability
tion through spinnerets into a chemical bath	Water		parachutes
where they coagulate.	wheat		rotary wings
RT extruding	GS farm crops		rotor aerodynamics
fibers	. grains (food)	\$	spin tests
∞ filaments	wheat	whirling	
∞ processing synthetic fibers	RT crop growth		rotation
textiles	crop vigor		
wetting	∞ crops rice	whirling to	ests
	nce	USE :	spin tests
wetlands	Wheatstone bridges	Whirlwing	d MK-10 helicopter
DEF Lands which have the water table at,	GS circuits		Westland Whirlwind helicopter
near, or above the land surface, or which are	. electric bridges	OOL	Westiana Williamia nencopiei
saturated for long enough periods to promote	wire bridge circuits	whisker	composites
hydrophylic vegetation and various kinds of bio-	Wheatstone bridges	UF	metal whisker reinforcement
logical activity which are adapted to the wet	RT measuring instruments	GS (	composite materials
environment.	ohmmeters		whisker composites
GS land . <b>wetlands</b>	wheel brakes		aramid fiber composites
marshlands	GS brakes (for arresting motion)		eutectic alloys
RT coastal currents	. wheel brakes		metal matrix composites reinforcing fibers
coastal ecology	RT aircraft brakes	'	reillording libers
coastal plains	aircraft safety	whiskers	(crystals)
coastal water	antiskid devices		crystals
environment effects	controllability		whiskers (crystals)
fisheries	friction		dendritic crystals
marine biology	hydraulic equipment		fibers
marine environments	landing gear	∞1	filaments
marine resources	tires	whia-a	na gallory modes
nearshore water	vehicle wheels		ng gallery modes d September 1988)
oceanography oil pollution	wheelchairs		Electromagnetic (or elastic) waves that
sea grasses	DEF Four wheeled ambulatory devices for		frequency by more than an order of
shorelines	persons with minimal or no use of lower extremi-	magnitud	
tides	ties which can be either manually or electrically		modes
water resources	powered. They are often individually fitted.		. propagation modes
waterfowl	RT disabilities		. whispering gallery modes

whistler recorders RT acoustic frequencies ∞ patterns wave front reconstruction 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 function of frequency. Used for spectral noise. bandwidth 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 . thermal noise statistical analysis 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
DEF Components used in the production of atmospheric radiation whiteout . ionospheric noise coherent x rays by the pumping of a gas with synchrotron radiation in combination with low visibility . whistlers visual flight electromagnetic interference energy photon beams. . radio frequency interference . . electromagnetic noise Whitham rule GS magnets wiggler magnets GS rules . . . atmospherics Whitham rule reflectors . whistlers RT shock waves wiggler magnets ... ionospheric noise ... whistlers wave propagation diffraction radiation 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 fuses (ordnance) coefficients GS . Wigner coefficient angular momentum white blood cells wide angle lenses USE leukocytes quantum mechanics GS lenses 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. GS wideband wildlife celestial bodies USE broadband GS animals . stars wildlife . white holes (astronomy) wideband communication birds black holes (astronomy) telecommunication endangered species cosmology wideband communication environment effects electromagnetic radiation 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 tropospheric scattering GS tracking (position) supernova remnants

> Widmanstatten structure crystal structure

> > microstructure

iron meteorites

metallography

Widmanstatten structure

Widmanstatten structure

meteoritic microstructures

. radio tracking . wildlife radiolocation

bioinstrumentation

radio transmitters

satellite instruments

satellite observation

remote sensors

animals

biotelemetry

#### 1074

GS

white light holography

imagery . photography

. . holography

data storage

. white light holography

holographic optical elements

## triangulation 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) 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) 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

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
```

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 anemometers

hot-film anemometers ∞ measurement

meteorological parameters

meteorology QuikSCAT satellite rawinsondes

sea breeze smoke trails sodar

## wind pressure

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

sodar vertical distribution

zonal flow (meteorology)

## Wind River Range (WY)

GS landforms

. mountains

Wind River Range (WY)

Wyoming

## wind shear

RT

DEF 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 GS

wind tunnel drives wind tunnel nozzles

 $RT \, \infty \, equipment$ 

supersonic test apparatus

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

DEF 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 Global Geospace Science (GGS) initiative and . . . shock tunnels 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 GS artificial satellites . trisonic wind tunnels bandwidth aerodynamics . geophysical satellites
. Wind/GGS spacecraft burning time exhaust flow simulation countdown scientific satellites
Wind/GGS spacecraft flight simulators 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. filament winding air masses turbomachinery turbines GS . helical windings atmospheric circulation 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 ground wind ∘ generators .. wind vanes ground wind ∞ machinery . 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 windshields windpowered generators ports (openings) windscreens aircraft compartments RT wind velocity measurement separators shielding mechanical measurement canopies

vents

∞ windows

cockpits

environmental control

. velocity measurement

wind velocity measurement

	locomotives	GS	aerodynamic configurations		∞ roots
	shielding	ao	. wing nacelle configurations		10010
	windows (apertures)	RT «	∞ aircraft	wing sla	ats
	,		airframes	USE	leading edge slats
wines			externally blown flaps		
GS	liquids		•	wing s	
	. potable liquids	wing o	scillations	GS	
	beverages	GS			wing slots
	wines		. airfoil oscillations	RT	boundary layer control
RT	vineyards		wing oscillations		leading edge slats
			wing rock		tangential blowing
wing ca		RT	aerodynamic stability		vortex generators
GS	camber		aeroelastic research wings		
	wing camber		flapping	wing s	
RT	cambered wings		flutter	GS	airfoil profiles
	conical camber		stable oscillations		. wing profiles
	mission adaptive wings		undamped oscillations	DT	wing span
			unsteady aerodynamics	HI 4	∞ span
wing fla			vibration		spanwise blowing
UF	jet augmented wing flaps				wings
GS	airfoils	wing p	anels	wing to	anko
	. flaps (control surfaces)	GS	panels	wing ta	
	wing flaps	ao	. wing panels	ds	tanks (containers) . fuel tanks
	leading edge flaps		structural members		
	leading edge slats		. wing panels	DT.	wing tanks ∞ containers
	trailing edge flaps	RT	curved panels	пі	external store separation
	vortex flaps		rectangular panels		external stores
	brakes (for arresting motion)		wings		external tanks
	. aerodynamic brakes		95		jettison systems
	wing flaps		la méa uma a		wing-fuselage stores
	leading edge flaps		anforms		Willy-luselage stores
	leading edge slats	GS	planforms	wing ti	p vortices
	trailing edge flaps		. wing planforms		vortices
	vortex flaps		channel wings infinite span wings	ao	. wing tip vortices
	. aircraft brakes		swept forward wings	RT	blade-vortex interaction
	wing flaps				flow distortion
	leading edge flaps		trapezoidal wings		horseshoe vortices
	leading edge slats		sweptback wings		rotating fluids
	trailing edge flaps		arrow wings		rotating halas
	vortex flaps		delta wings	wing ti	ns
	control surfaces		trapezoidal wings	GS	tips
	. flaps (control surfaces)	RT	variable sweep wings	0.0	. wing tips
	wing flaps	ΠI	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		90
	drag devices		slender wings swept wings	wina-ba	ody and tail configurations
	. aerodynamic brakes		. •		led August 1998)
	wing flaps		swing wings		body-wing and tail configurations
	leading edge flaps		thrust distribution		, J
	leading edge slats		unswept wings	wing-bo	ody configurations
	trailing edge flaps				led August 1998)
DT	vortex flaps	wing p			body-wing configurations
RT	externally blown flaps	GS	airfoil profiles		, , ,
	jet flaps		. wing profiles	∞ winged	d 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	RT /	LISTED BELOW) ∞ aircraft
ΠI	fluid flow		GAW-2 airfoil	111 \	B-1 aircraft
	ground tests		mission adaptive wings		drone vehicles
~	o methodology		monoplanes		Firebee 2 target drone aircraft
	• tests		supercritical wings		gliders
	transonic wind tunnels		swing wings		hang gliders
	transome wind tarmole		wings		hypersonic vehicles
wing ici	ng	_			iet aircraft
_	aircraft icing	wing ro	ock		launch vehicles
002			ed October 1997)		leading edge flaps
wing lo	ading		A high angle-of-attack, nonlinear, dy-		man powered aircraft
GS	aerodynamic forces		henomenon of limited cycle motion pre-		missiles
	wing loading		ntly in roll.		monoplanes
	loads (forces)	GS	oscillations		recoverable launch vehicles
	. dynamic loads		. airfoil oscillations		recoverable spacecraft
	wing loading		wing oscillations		reentry vehicles
RT	aerodynamic loads		wing rock		research aircraft
	aeroelasticity	RT	aerodynamic stability		rocket vehicles
	edge loading		aircraft stability		short takeoff aircraft
	force distribution		angle of attack		supercritical wings
	gust loads		delta wings		ultralight aircraft
	leading edge thrust		lateral oscillation	c	∞ vehicles
	static loads		leading edges		vertical takeoff aircraft
	sweep effect		roll		wings
	vortex flaps		slender wings		<b>3</b> -
	•			wing-fu	uselage stores
wing na	acelle configurations	wing ro	oots	UF	
	Aerodynamic configurations involving	RT	aerodynamic configurations	RT	external store separation
	arrangements of wings and nacelles		aircraft configurations		external stores
	e-wing, etc.).		drooped airfoils		fuselages
ÙF	nacelle wing configurations		fairings		nacelles

## wing-in-ground effect vehicles

	pods (external stores)	aspect ratio		closed circuit television
	protuberances	blunt trailing edges		communication satellites
~	storage	body-wing and tail configurations		data links
~	storage tanks	body-wing and tall configurations		data transmission
	tanks (containers)	coatings		digital spacecraft television
	weapons	control surfaces		facsimile communication
	wing tanks	drooped airfoils		Iridium network
	wing tariks	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
	the reduced drag and increased lift	spoilers		telemetry
	by ground effect. These vehicles, also	wing panels		voice communication
	as WIGs or WIGEs, normally operate	wing profiles		voice communication
	water surface.	. • 1	wiring	
UF	ekranoplanes	wing span wing tips	SN	(PROCESSAS DISTINGUISHED FROM
0.	WIG vehicles	· .	SIN	MATERIAL)
GS	ground effect machines	∞ winged vehicles	UF	electric wiring
ao	. wing-in-ground effect vehicles	winglets		wiring systems
RT	ground effect (aerodynamics)	winter	RT	bundles
111	surface effect ships			circuits
	surface effect ships	GS seasons . winter		electrical insulation
winglet	9			flat conductors
DEF	In aerospace engineering, small nearly	RT autumn cold weather		splicing
	winglike surfaces mounted rearward			transmission lines
	he wing tips to reduce drag coefficients	equinoxes		wire
	conditions.	pressure ice		wire winding
RT	drag reduction	solstices		will will all ig
п	•	spring (season)	wiring s	vstems
	fins	summer		wiring
	protuberances		OOL	wiiiig
	vortex alleviation	wire	Wiscon	oin
	vortex avoidance	DEF A rod or filament of drawn or rolled	GS	nations
	wings	metal whose length is great in comparison with	do	. United States
		the major axis of its cross section.		
wings		GS wire		Wisconsin
UF	cantilever wings	. electric wire	W:	
GS	airfoils	. exploding wires		sser notations
	. 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		∘ chemical compounds
	fixed wings	∞ filaments	0	∘ chemistry
	flexible wings	flat conductors		identifying
	parawings	jumpers		molecular structure
	GAW-1 airfoil	reinforcement (structures)	0	∘ reference systems
	GAW-2 airfoil	rods		
	joined wings	wiring	WKB ap	pproximation
	low aspect ratio wings	g	USE	Wentzel-Kramer-Brillouin method
	delta wings	wire bridge circuits		
	trapezoidal wings	GS circuits	wolfram	1
	mission adaptive wings	. electric bridges	USE	tungsten
	oblique wings	wire bridge circuits		_
	rigid wings	Wheatstone bridges	Wolf-Ra	ayet stars
	rotary wings	RT electric wire		Very luminous, very hot (as high as
	circulation control rotors	exploding wires		() stars whose spectra have broad emis-
	lifting rotors	exploding wires	,	es (mainly He I and He II, which are
	bearingless rotors	wire cloth		ed to originate from material ejected
	rigid rotors	UF wire mesh		e stars at very high velocities. Some W-R
	tilting rotors	RT fabrics		show emission lines due to carbon CWC
	tip driven rotors	reinforcement (structures)	•	thers show emission lines due to nitro-
	x wing rotors	∞ screens		N stars). Used for W stars and W-R stars.
	slender wings	sieves		W stars
	infinite span wings	310.403		W-R stars
	supercritical wings	wire grid lenses	GS	celestial bodies
	swept wings	GS lenses	40	. 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			astrophysics
		lens antennas		B stars
	trapezoidal wings	magnetic lenses		carbon stars
	swing wings	turnstile antennas		
	thin wings	wire mech		celestial mechanics
	infinite span wings	wire mesh		ejecta
	twisted wings	USE wire cloth		helium
	uncambered wings	andre andre die e		nitrogen
	ring wings	wire winding		O stars
	unswept wings	GS winding		stellar envelopes
	infinite span wings	. wire winding		stellar luminosity
	rectangular wings	RT magnet coils		stellar mass ejection
	ring wings	wiring		white dwarf stars
	variable sweep wings	andred and a second of the Control o	_	
RT	aircraft construction materials	wireless communication	wolves	
	aircraft parts	UF carrier systems	GS	animals
	aircraft structures	GS telecommunication		. vertebrates
	airfoil fences	. wireless communication		mammals

RT aircraft communication

... wolves

airframes

RT	dogs	RT	electron emission ∞ functions		transoceanic systems
women USE	females		ionization potentials perveance	World I GS	Meteorological Organization organizations
			photoelectric emission		. World Meteorological
wood GS	wood		Schottky diodes		Organization
ds	wood . cork (materials)		thermionic emission	RT	international cooperation
	. plywood	work b	ordonina		meteorology United Nations
RT	balsa	GS GS	ardening hardening (materials)		Office (Valions
	cellulose	ao	. work hardening	World V	Weather Watch
	Masonite (trademark)		strain hardening	USE	meteorological services
	organic materials	RT	cold hardening		
	paper (material) plants (botany)		mechanical twinning		Wide Web
	slivers		metal working peening	(add UF	led July 1995) WWW
	trees (plants)		shot peening	GS	networks
	wooden structures		work softening	ac	. communication networks
			g		internets
RT	structures plywood	work s	oftening		World Wide Web
	structures		The phenomena of a drop in the yield		. computer networks
-	wood	strengt	h of a metal when it has been strained or		internets
			orked at low temperature and subse-	RT	World Wide Web computer conferencing
wool			strained at an elevated temperature to the dislocations to become unstable.		electronic bulletin boards
SN GS	(LIMITED TO ANIMAL FIBERS) fabrics	GS	softening		electronic commerce
do	. wool	ao	work softening		information transfer
	fibers	RT			Java (programming language)
	. wool		plastic deformation		protocol (computers)
RT	felts		work hardening		web services websites
	hair				websites
	keratins		orse helicopter	worms	
	organic materials sheep	USE	CH-21 helicopter	GS	animals
	yarns				. invertebrates
	<b>J</b> a5		g fluids		worms
word pr	ocessing		Fluids (gas or liquid) used as the me- or the transfer of energy from one part of	DT	flatworms
	The use of a computer, often with a		m to another.	RT	infestation larvae
	der full-screen control, to facilitate the	RT	consumables (spacecraft)		Rotifera
	g, storage, editing, updating, and orga- of information in the form of words,		ferrofluids		
	ly sentential information.		fluid power	wound	healing
	computer techniques		fluid transmission lines	GS	healing
	data processing	•	∞ fluids high temperature fluids		wound healing
	office automation		hydraulic fluids	RT	injuries
	words (language)		jet condensers		
words (	longuago)		phase change materials		composites led November 1992)
RT	language) abbreviations		sulfur hexafluoride		composite materials
111	consonants (speech)		transmission fluids	0.0	. fiber composites
	conversation				woven composites
	English language		ads (psychophysiology)	RT	braided composites
	grammars	RT	fatigue (biology) human performance		carbon fiber reinforced plastics
	languages		mental performance		epoxy matrix composites fabrics
	messages orthography		physical work		glass fiber reinforced plastics
	phonemes		psychomotor performance		graphite-epoxy composites
	phonemics		psychophysiology		reinforcing fibers
	phonetics		stress (psychology)		three dimensional composites
	semantics		work capacity		weaving
	sentences				
	speech terminology		est cycle	W-R sta	ars Wolf-Rayet stars
	terms	GS	cycles . work-rest cycle	USL	Woll-hayet stars
	thesauri	RT	fatigue (biology)	Wrange	ell Mountains (AK)
	verbal communication		relaxation (physiology)		landforms
	voice communication				. mountains
	vowels	workst	ations		Wrangell Mountains (AK)
	word processing	GS	stations	RT	Alaska
work			workstations		
GS	work		crew workstations	∞ <b>wrap</b> SN	(USE OF A MORE SPECIFIC TERM IS
	. physical work		crew experiment stations crew observation stations	SIN	RECOMMENDEDCONSULT THE TERMS
RT ∝	energy	RT	human factors engineering	RT	LISTED BELOW)
	heat		man machine systems	nı	composite wrapping packaging
	horsepower		productivity		hannaa
	kinetic energy occupation		UNIX (operating system)	wraparo	ound contact solar cells
	physical factors				solar cells
	p, 2.000. 100.010	world			
work ca	pacity	USE	Earth (planet)	wrecka	
RT	hyperkinesia			RT	accident investigation
	orbital workers		data centers		accidents
	physical fitness		∞ centers		crashes sabotage
	physical work workloads (psychophysiology)	•	∞ data data retrieval		spacecraft breakup
	workloads (psychophysiology)		data storage		
work fu	nctions		International Geophysical Year	wrench	nes
UF	Schottky effect		libraries		tools

## wrinkling

. . . . wurtzite zinc compounds . wrenches . wrought alloys RT Rene 41 Rene 63 wrinkling . zinc sulfides GS wrinkling Rene 77 . . wurtzite . flange wrinkling Waspaloy WWW RT buckling WU-2 aircraft
USE **U-2 aircraft** USE World Wide Web deformation distortion WWW (meteorology)
USE meteorological services wurtzite
GS chalcogenides
. sulfides
. inorganic sulfides
. . zinc sulfides
. . . wurtzite
minerals kinking ∞ 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) . wurtzite Wind River Range (WY) Yellowstone National Park sulfur compounds . sulfides (ID-MT-WY) . . inorganic sulfides

. . . zinc sulfides

wrought alloys GS alloys

X hand USE superhigh frequencies X mesons GS particles . elementary particles . . bosons ... mesons . . meson resonance . . X mesons . . fermions . . . meson resonance . X mesons . . hadrons . . . mesons . . . . meson resonance . . X mesons . nuclear particles . . bosons . . . mesons . . . . meson resonance . . . . . X mesons resonance . meson resonance .. X mesons x ray absorption energy absorption . radiation absorption RT ∞ absorption

. . electromagnetic absorption . . x ray absorption electron spectroscopy

x ray analysis

(EXCLUDES X RAY STRESS ANALYSIS) x ray analysis

. Laue method . x ray spectroscopy RT ∞ analyzing chemical analysis

x ray detectors

crystallography defects fluoroscopy lattice parameters ∞ materials tests microanalysis

microbeams radiography radiology stereochemistry tomography

x ray apparatus

GS medical equipment x ray apparatus . . lixiscopes . x ray tubes

RT ∞ equipment radiography x ray detectors

#### x ray astronomy

GS 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

. 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

diffraction GS

. 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

. . Constellation-X . X-1 aircraft x rays . . X Ray Astrophysics Facility research vehicles x ray spectra . XMM-Newton telescope . research aircraft GS spectra grazing incidence telescopes . X-1 aircraft . radiation spectra Kvant modules rocket vehicles . . electromagnetic spectra radiography . rocket planes . x ray spectra ROSAT mission . X-1 aircraft Ginga satellite Swift observatory supersonic aircraft North Polar Spur (astronomy) x ray detectors X-1 aircraft RT ∞ aircraft quasars x ray optics solar spectra x ray spectrometers stellar spectra X-2 aircraft x ray stars GS Bell aircraft Tenma satellite . X-2 aircraft x ray spectrometers X Ray Timing Explorer DEF An Explorer satellite planned for late monoplanes X ray spectrography 1993 or 1994 to consist of three experiments: a X-2 aircraft USE x ray spectroscopy large area proportional counter, an all sky moniresearch vehicles tor, and a high energy x ray timing experiment. . research aircraft x ray spectrometers The package is designed to measure the time .. X-2 aircraft (added October 1996) variability of x ray sources and broad band rocket vehicles GS measuring instruments . rocket planes spectra. . spectrometers Rossi X Ray Timing Explorer ... X-2 aircraft x ray spectrometers RXTE (satellite) supersonic aircraft spectroscopy artificial satellites X-2 aircraft x ray spectra . scientific satellites RT ∞ aircraft . . Explorer satellites x ray telescopes ... X Ray Timing Explorer X-3 aircraft X ray spectrometry GS jet aircraft USE x ray spectroscopy X-3 aircraft DEF Vacuum tubes designed to produce x McDonnell Douglas aircraft X Ray Spectropolarimetry Payload . Douglas aircraft rays by accelerating electrons to a high velocity USE EXPOS (Spacelab payload) by means of an electrostatic field, then suddenly stopping them by collision with a target. monoplanes x ray spectroscopy medical equipment . X-3 aircraft research vehicles X ray spectrography x ray apparatus . . x ray tubes electron tubes X ray spectrometry . research aircraft GS spectroscopy . . X-3 aircraft x ray spectroscopy radiography supersonic aircraft x ray analysis X-3 aircraft x ray spectroscopy  $RT \, \infty \, aircraft$ RT astronomical spectroscopy Nonnuclear electromagnetic radiation coordination number of very short wavelength, lying within the interval X-5 aircraft of 0. 1 to 100 angstroms (between gamma rays, Bell aircraft GS molecular spectroscopy and ultraviolet radiation). X-5 aircraft radio spectroscopy GS electromagnetic radiation jet aircraft radiography . x rays . X-5 aircraft spectroscopic analysis . . cosmic x rays monoplanes ultraviolet spectroscopy . . solar x-rays ionizing radiation . X-5 aircraft vacuum spectroscopy research vehicles x ray detectors . x rays . research aircraft . . cosmic x rays . X-5 aircraft x rav stars . solar x-rays  $RT \, \infty \, aircraft$ DEF Stars with strong emission in the x ray auroras portion of the electromagnetic spectrum. Used blackout (propagation) X-13 aircraft for extars. bremsstrahlung GS jet aircraft UF extars cosmic rays . X-13 aircraft celestial bodies GS emission spectra monoplanes . stars extraterrestrial radiation . X-13 aircraft . . x ray stars far ultraviolet radiation research vehicles . . . soft gamma repeaters . . . x ray binaries . research aircraft gamma rays monochromatic radiation X-13 aircraft x ray sources radiography Ryan aircraft . x ray stars X-13 aircraft radiology .. soft gamma repeaters synchrotron radiation V/STOL aircraft . x ray binaries system generated electromagnetic . vertical takeoff aircraft emission spectra pulses ... X-13 aircraft Ginga satellite x ray binaries RT ∞ aircraft neutron stars x ray detectors radiation sources X-14 aircraft x ray optics stellar radiation GS Bell aircraft x ray sources Tenma satellite x ray stars X-14 aircraft Uhuru satellite jet aircraft x ray astronomy X-14 aircraft x wing rotors x ray telescopes DEF A new VTOL concept utilizing the monoplanes x rays stopped rotor X-wing aircraft. . X-14 aircraft GS airfoils research vehicles x ray stress analysis . wings . research aircraft . . rotary wings stress analysis . X-14 aircraft ... x wing rotors rotating bodies . x ray strėss analysis V/STOL aircraft . vertical takeoff aircraft stresses temperature inversions . rotors . X-14 aircraft . . rotary wings RT ∞ aircraft x ray stress measurement . x wing rotors

#### x ray telescopes GS

telescopes

. x ray telescopes

GS mechanical measurement

. stress measurement

. . x ray stress measurement

X-1 aircraft GS

Bell aircraft X-1 aircraft monoplanes

∞ rotor blades

RT circulation control rotors

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 ∞ 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

Boeing aircraft GS . 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

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

### X-29 aircraft

RT ∞ 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 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 iet 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

X-38 crew return vehicle X-40A vehicle 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 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 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 . . xenon liquid propellant rocket engines . X-40A vehicle . . . xenon isotopes X-405 engine soft landing spacecraft .... xenon 129 RT Vanguard project . aerospace planes X-40A vehicle xanthic acids reusable launch vehicles xenon 133 GS chemical elements X-37 vehicle xanthic acids . nuclides organic liquids RT . . isotopes X-43 vehicle ... radioactive isotopes (added September 1999) DEF The experimental research vehicle of the NASA Hyper-X program designed to flight validate key propulsion and related technologies xanthines . . . . xenon 133 fungicides GS . . . xenon isotopes . xanthines . . . . xenon 133 . rare gases . . caffeine for air-breathing hypersonic aircraft. . . guanines aerospace vehicles . . xenon GS . uric acid . . . xenon isotopes X-43 vehicle nitrogen compounds . . . . xenon 133 hypersonic vehicles . 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 . . . . . uric acid . . . radioactive isotopes (UCAV) demonstrator developed to test the use . . . . xenon 135 of such aircraft in enemy air-defense suppres-XB-47 aircraft ... xenon isotopes 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 . XC-142 aircraft engines

monoplanes

Ryan aircraft

XC-142 aircraft

. XC-142 aircraft

tilt wing aircraft . XC-142 aircraft

transport aircraft

V/STOL aircraft

RT ∞ aircraft

XC-142 aircraft

. vertical takeoff aircraft

. XC-142 aircraft

## X-254 engine

- GS engines
  - . rocket engines
  - . solid propellant rocket engines

. . solid propellant rocket engines

... X-254 engine

. rocket engines

. X-248 engine

Scout launch vehicle

Blue Scout rocket vehicle

vanguard 2 launch vehicle

xenon compounds

RT ∞ chemical compounds

. lasers

. . gas lasers

electron transitions

excimer lasers

laser materials

ultraviolet lasers

laser outputs

. . . rare gas-halide lasers

... xenon chloride lasers

∞ rare gas compounds	baryons	V/STOL aircraft
≪ raie gas compounds	hyperons	. XV-3 aircraft
xenon fluoride lasers	xi hyperons	RT ∞ aircraft
DEF Lasers using XeF as the active mate-	hadrons	tilting rotors
rial.	baryons	g
GS stimulated emission devices	hyperons	XV-4 aircraft
. lasers	xi hyperons	UF Hummingbird aircraft
gas lasers	mesons	Lockheed XV-4A aircraft
rare gas-halide lasers	hyperons	V-4 aircraft
xenon fluoride lasers	xi hyperons	VZ-10 aircraft
RT electron transitions	. nuclear particles	GS jet aircraft
excimer lasers	bosons	. XV-4 aircraft
laser materials	mesons	Lockheed aircraft
laser outputs	hyperons	XV-4 aircraft
xenon isotopes	xi hyperons	monoplanes
GS chemical elements	xi hyperons	XV-4 aircraft
. nuclides	XJ-34-WE-32 engine	research vehicles
isotopes	USE J-34 engine	. research aircraft
xenon isotopes	OOL OOF CHIGHIC	<b>XV-4 aircraft</b> V/STOL aircraft
xenon 129	XJ-79-GE-1 engine	. vertical takeoff aircraft
xenon 133	USE J-79 engine	XV-4 aircraft
xenon 135		RT ∞ aircraft
. rare gases	XLR-99 engine	TTT dillordit
xenon	GS engines	XV-5 aircraft
xenon isotopes	. rocket engines	UF V-5 aircraft
xenon 129	liquid propellant rocket engines	VZ-11 aircraft
xenon 133	XLR-99 engine	XV-5A aircraft
xenon 135	RT X-15 aircraft	GS fan in wing aircraft
gases	VAA 0	. XV-5 aircraft
. rare gases	XM-6 squib	jet aircraft
xenon	USE <b>squibs</b>	. XV-5 aircraft
xenon isotopes	XM-8 squib	monoplanes
xenon 129	USE <b>squibs</b>	. XV-5 aircraft
xenon 133	OOL Squibs	research vehicles
xenon 135	XM-33 engine	. research aircraft
vonon lamne	UF TX-33-39 engine	XV-5 aircraft
xenon lamps GS lighting equipment	GS engines	Ryan aircraft
GS lighting equipment . luminaires	. rocket engines	. XV-5 aircraft
xenon lamps	solid propellant rocket engines	V/STOL aircraft
RT arc lamps	XM-33 engine	. XV-5 aircraft
flash lamps	RT Blue Scout rocket vehicle	RT ∞ aircraft
infrared radiation	EXOS sounding rocket	
mercury lamps	Little Joe 2 launch vehicle	XV-5A aircraft
, .	polaris missiles	USE XV-5 aircraft
xerogels	Scout launch vehicle	
(added July 1997)	TX-354 engine	XV-6A aircraft
GS gels		USE P-1127 aircraft
. xerogels	XMM (telescope)	
RT aerogels	(added August 2000)	XV-8A aircraft
porous materials	USE XMM-Newton telescope	GS research vehicles
silica gel	V	. research aircraft
silicon dioxide	XMM-Newton telescope	XV-8A aircraft
sol-gel processes	(added August 2000)	Ryan aircraft
vere even by	DEF Spaceborne x-ray telescope, launched in December 1999, providing simultaneous,	XV-8A aircraft
xerography GS imagery	high-throughput non-dispersive spectroscopic	utility aircraft
GS imagery . reproduction (copying)	imaging (EPIC instrument), medium-resolution	. XV-8A aircraft
xerography	dispersive spectroscopy (Reflection Grating	V/STOL aircraft
RT electrostatic charge	Spectrometer), and optical/UV imaging and tim-	. XV-8A aircraft
photographs	ing from a co-aligned instrument (Optical Moni-	RT ∞ aircraft
photography	tor).	flexible wings
L 3 61	UF X Ray Multi-Mirror Mission	
XH-51 helicopter	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
Lockheed 186 helicopter	. scientific satellites	jet aircraft
Lockheed CL-595 helicopter	astronomical satellites	XV-9A aircraft
GS Lockheed aircraft	XMM-Newton telescope	research vehicles
. XH-51 helicopter	ESA spacecraft	. research aircraft
research vehicles	. ESA satellites	XV-9A aircraft
. research aircraft	. XMM-Newton telescope	V/STOL aircraft rotary wing aircraft
. XH-51 helicopter		. Iolary wing ancian
V/STOL aircraft	observatories	heliconters
. rotary wing aircraft	. astronomical observatories	helicopters military helicopters
holioontoro	<ul><li>. astronomical observatories</li><li>. astronomical satellites</li></ul>	military helicopters
helicopters	<ul><li>astronomical observatories</li><li>astronomical satellites</li><li>XMM-Newton telescope</li></ul>	military helicopters XV-9A aircraft
rigid rotor helicopters	<ul> <li>astronomical observatories</li> <li>astronomical satellites</li> <li>XMM-Newton telescope</li> <li>telescopes</li> </ul>	military helicopters XV-9A aircraft RT ∞ aircraft
	<ul> <li>astronomical observatories</li> <li>astronomical satellites</li> <li>XMM-Newton telescope</li> <li>telescopes</li> <li>spaceborne telescopes</li> </ul>	military helicopters XV-9A aircraft
rigid rotor helicopters XH-51 helicopter	<ul> <li>astronomical observatories</li> <li>astronomical satellites</li> <li>XMM-Newton telescope</li> <li>telescopes</li> <li>spaceborne telescopes</li> <li>XMM-Newton telescope</li> </ul>	military helicopters XV-9A aircraft RT ∞ aircraft tip driven rotors
rigid rotor helicopters XH-51 helicopter xi hyperons	<ul> <li>astronomical observatories</li> <li>astronomical satellites</li> <li>XMM-Newton telescope</li> <li>telescopes</li> <li>spaceborne telescopes</li> <li>XMM-Newton telescope</li> <li>x ray telescopes</li> </ul>	military helicopters XV-9A aircraft RT ∞ aircraft tip driven rotors
rigid rotor helicopters XH-51 helicopter  xi hyperons GS particles	<ul> <li>astronomical observatories</li> <li>astronomical satellites</li> <li>XMM-Newton telescope</li> <li>spaceborne telescopes</li> <li>XMM-Newton telescope</li> <li>x ray telescopes</li> <li>XMM-Newton telescope</li> </ul>	military helicopters XV-9A aircraft RT ∞ aircraft tip driven rotors XV-11A aircraft GS research vehicles
rigid rotor helicopters XH-51 helicopter  xi hyperons GS particles . elementary particles	. astronomical observatories astronomical satellites XMM-Newton telescope telescopes . spaceborne telescopes XMM-Newton telescope . x ray telescopes XMM-Newton telescope RT x ray astronomy	military helicopters XV-9A aircraft RT ∞ aircraft tip driven rotors XV-11A aircraft GS research vehicles . research aircraft
rigid rotor helicopters XH-51 helicopter  xi hyperons GS particles . elementary particles . bosons	<ul> <li>astronomical observatories</li> <li>astronomical satellites</li> <li>XMM-Newton telescope</li> <li>spaceborne telescopes</li> <li>XMM-Newton telescope</li> <li>x ray telescopes</li> <li>XMM-Newton telescope</li> </ul>	military helicopters XV-9A aircraft  RT ∞ aircraft tip driven rotors  XV-11A aircraft  GS research vehicles . research aircraft XV-11A aircraft
rigid rotor helicopters XH-51 helicopter  xi hyperons GS particles . elementary particles . bosons mesons	. astronomical observatories . astronomical satellites XMM-Newton telescope telescopes . spaceborne telescopes . XMM-Newton telescope . x ray telescopes . XMM-Newton telescope RT x ray astronomy X Ray Astrophysics Facility	military helicopters XV-9A aircraft  RT ∞ aircraft tip driven rotors  XV-11A aircraft GS research vehicles . research aircraft XV-11A aircraft V/STOL aircraft
rigid rotor helicopters XH-51 helicopter  xi hyperons GS particles . elementary particles bosons mesons hyperons	. astronomical observatories . astronomical satellites XMM-Newton telescope telescopes . spaceborne telescopes . XMM-Newton telescope . x ray telescopes . XMM-Newton telescope RT x ray astronomy X Ray Astrophysics Facility  XV-3 aircraft	military helicopters XV-9A aircraft  RT ∞ aircraft tip driven rotors  XV-11A aircraft GS research vehicles . research aircraft . XV-11A aircraft V/STOL aircraft . vertical takeoff aircraft
rigid rotor helicopters XH-51 helicopter  xi hyperons GS particles . elementary particles . bosons mesons hyperons xi hyperons	. astronomical observatories . astronomical satellites XMM-Newton telescope telescopes . spaceborne telescopes . XMM-Newton telescope . x ray telescopes . XMM-Newton telescope RT x ray astronomy X Ray Astrophysics Facility  XV-3 aircraft UF V-3 aircraft	military helicopters XV-9A aircraft  RT ∞ aircraft tip driven rotors  XV-11A aircraft GS research vehicles . research aircraft XV-11A aircraft V/STOL aircraft vertical takeoff aircraft XV-11A aircraft
rigid rotor helicopters XH-51 helicopter  xi hyperons GS particles . elementary particles bosons mesons hyperons	. astronomical observatories . astronomical satellites XMM-Newton telescope telescopes . spaceborne telescopes . XMM-Newton telescope . x ray telescopes . XMM-Newton telescope RT x ray astronomy X Ray Astrophysics Facility  XV-3 aircraft UF V-3 aircraft	military helicopters XV-9A aircraft  RT ∞ aircraft tip driven rotors  XV-11A aircraft GS research vehicles . research aircraft . XV-11A aircraft V/STOL aircraft . vertical takeoff aircraft

## XV-15 aircraft

shrouded propellers

XV-15 aircraft

DEF Experimental model of a tilt-rotor aircraft 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

. hydrocarbons . . xylene toluene RT

xylose



YAG (garnet)	wool	RT ∞ food
USE yttrium-aluminum garnet	YAV-8B aircraft	
YAG lasers	USE Harrier aircraft	Yellowstone National Park (ID-MT-WY)
GS electronic equipment	oce marrier anorare	GS land
. solid state devices	yaw	. parks
solid state lasers	UF damping in yaw	national parks
YAG lasers	fishtailing	Yellowstone National Park
stimulated emission devices	yawmeters	(ID-MT-WY)
. lasers	GS attitude (inclination)	RT Idaho
solid state lasers	. yaw	Montana Wyoming
YAG lasers	RT aerodynamic stability	wyoming
RT laser heating	coning motion	
laser materials	directional control	Yemen
laser outputs yttrium-aluminum garnet	directional stability lateral oscillation	GS nations
yttiidiii-aidiiiiidiii gairiet	∞ motion	Yemen
Yaqi antennas	pitch (inclination)	RT Asia
DEF Directional antennas used on some	roll	
types of radar and radio equipment consisting of	rotation	YF-12 aircraft
an array of elemental, single wire dipole anten-	sideslip	GS attack aircraft
nas and reflectors.	skidding	. fighter aircraft
GS antennas	turning flight	YF-12 aircraft
. directional antennas	yawing moments	RT ∞ aircraft
Yagi antennas		aircraft design
arrays	yawing moments  DEF Moments that tend to rotate aircraft.	∞ interceptors
. antenna arrays linear arrays	DEF Moments that tend to rotate aircraft, airfoils, rockets, or spacecraft about a vertical	jet aircraft
endfire arrays	axis.	∞ military aircraft reconnaissance aircraft
Yagi antennas	GS moments	research aircraft
RT antenna design	. stability derivatives	resocutori anotati
dipole antennas	yawing moments	
directors (antenna elements)	RT aerodynamic coefficients	YF-16 aircraft
parasitic elements (antennas)	lateral oscillation	USE F-16 aircraft
waveguide antennas	moments of inertia	
	pitching moments	YF-17 aircraft
Yak 40 aircraft	rolling moments	USE <b>F-17 aircraft</b>
GS general aviation aircraft	torque	
Yak 40 aircraft	yaw	VE 22 / 6
jet aircraft	vaumatara	YF-22 aircraft
. Yak 40 aircraft	yawmeters USE attitude indicators	USE F-22 aircraft
passenger aircraft . <b>Yak 40 aircraft</b>	yaw	
Yakovlev aircraft	yan	YF-102 aircraft
. Yak 40 aircraft	Y-Ba-Cu-O superconductors	USE F-102 aircraft
RT ∞ aircraft	USE YBCO superconductors	
	•	YHU-1 helicopter
YAK aircraft	YBCO superconductors	USE UH-1 helicopter
USE Yakovlev aircraft	(added September 1992)	00 <u>1</u> 0
	UF Y-Ba-Cu-O superconductors	
Yakovlev aircraft	GS chalcogenides	yield
(added September 1995)	. oxides	RT losses
UF YAK aircraft	metal oxides mixed oxides	output
GS Yakovlev aircraft . Yak 40 aircraft	YBCO superconductors	
RT ∞ aircraft	conductors	yield point
TTI SS difficult	. superconductors (materials)	UF damage threshold
Yang-Mills fields	high temperature superconductors	Luder bands
DEF Types of fields based upon Yang-Mills	YBCO superconductors	GS mechanical properties
theory.	RT barium oxides	plastic properties
RT electromagnetic fields	ceramics	yield point
field theory (physics)	cermets	RT microyield strength Tresca flow
gauge theory	copper oxides	Tresca now
gravitational fields	cuprates	
perturbation theory	low temperature physics	yield strength
Yang-Mills theory	superconducting films superconductivity	DEF The stress at which a material exhibits
Yang-Mills theory	thin films	a specific limiting deviation from the proportion
DEF Mathematical idea for describing inter-	yttrium oxides	ality of stress to strain. This deviation is ex
actions among elementary particles which is	yanan exace	pressed in terms of strain.
based on the idea of gauge invariance under a	YC-14 aircraft	GS mechanical properties
non Abelian group. Used for Casimir energy.	GS transport aircraft	. yield strength
RT field theory (physics)	cargo aircraft	load carrying capacity microyield strength
gauge theory	YC-14 aircraft	RT ductile-brittle transition
perturbation theory	RT ∞ aircraft	elastic properties
space-time functions	Boeing aircraft	fracture strength
statistical analysis	∞ military aircraft	high strength
supergravity	VC 15 aircraft	J integral
theoretical physics	YC-15 aircraft USE <b>C-15 aircraft</b>	plastic deformation
∞ theories Yang-Mills fields	OOL O-19 difficiall	∞ strength
rang-wills lielus	YC-123 aircraft	stresses
yarns	USE <b>C-123 aircraft</b>	stress-strain diagrams
RT cordage	JOE J 120 anotait	stress-strain relationships
cotton	yeast	temperature inversions
fibers	GS plants (botany)	
∞ rovings	. fungi	YIG (garnet)
strands	yeast	USE yttrium-iron garnet

YJ73 turbojet engine	. YS-11 aircraft	isotopes
USE J-73 engine	monoplanes	yttrium isotopes
VI =0 0 = 0	. YS-11 aircraft	. rare earth elements
YJ-73-GE-3 engine	Nihon aircraft	yttrium
USE J-73 engine	YS-11 aircraft	yttrium isotopes
YJ-79 engine	passenger aircraft	metals
USE <b>J-79 engine</b>	YS-11 aircraft	. rare earth elements
USE 3-79 engine	transport aircraft	yttrium
YJ-85 engine	. YS-11 aircraft	yttrium isotopes
USE J-85 engine	V07	transition metals
OSL 3-03 engine	YSZ	yttrium
YJ-93 engine	USE yttria-stabilized zirconia	yttrium isotopes
USE J-93 engine	VT 0 ' "	
OOL 0-95 engine	YT-2 aircraft	yttrium lithium fluoride lasers
YJ-93-GE-3 engine	USE T-2 aircraft	USE YLF lasers
USE J-93 engine	H . 1.2	
COL COSMO	ytterbium	yttrium oxides
YLF lasers	GS chemical elements	GS chalcogenides
(added August 1990)	. rare earth elements	. oxides
UF yttrium lithium fluoride lasers	ytterbium	metal oxides
GS electronic equipment	ytterbium isotopes	yttrium oxides
. solid state devices	metals	yttrium compounds
semiconductor devices	. rare earth elements	. yttrium oxides
semiconductor lasers	ytterbium	RT high temperature superconductors
YLF lasers	ytterbium isotopes	YBCO superconductors
solid state lasers		yttria-stabilized zirconia
YLF lasers	ytterbium compounds	yttila otabilizoa zirooma
stimulated emission devices	GS rare earth compounds	vettri van alivania van annat
. lasers	. ytterbium compounds	yttrium-aluminum garnet
semiconductor lasers	RT ∞ chemical compounds	UF YAG (garnet)
YLF lasers	∞ metal compounds	GS minerals
		. garnets
solid state lasers YLF lasers	ytterbium isotopes	yttrium-aluminum garnet
	GS chemical elements	silicon compounds
RT infrared lasers	. nuclides	. silicates
YLR-91-AJ-1 engine	isotopes	garnets
<u> </u>	ytterbium isotopes	yttrium-aluminum garnet
GS engines	. rare earth elements	yttrium compounds
. rocket engines	ytterbium	yttrium-aluminum garnet
liquid propellant rocket engines	ytterbium isotopes	RT ferrites
YLR-91-AJ-1 engine	metals	magnetostatic amplifiers
RT Titan ICBM	. rare earth elements	YAG lasers
vokos	ytterbium	
yokes RT beam waveguides	ytterbium isotopes	yttrium-iron garnet
	•	UF YIG (garnet)
connectors	yttria-stabilized zirconia	GS minerals
couplers	(added February 1994)	. garnets
couples	UF YSZ	yttrium-iron garnet
deflection	GS chalcogenides	silicon compounds
directional couplers	. oxides	. silicates
ferromagnetic materials	metal oxides	garnets
∞ joining	zirconium oxides	yttrium-iron garnet
linkages	yttria-stabilized zirconia	yttrium compounds
magnet coils	zirconium compounds	. yttrium-iron garnet
	. zirconium oxides	RT ferrites
Young modulus	vttria-stabilized zirconia	magnetostatic amplifiers
USE modulus of elasticity	RT ceramics	waveguide tuners
	thin films	waveguide tullers
Young-Helmholtz theory		Vurnaslavia
RT color vision	yttrium oxides	Yugoslavia
photoreceptors	yttrium	GS nations
∞ theories		
		. Yugoslavia
	GS chemical elements	. <b>Yugoslavia</b> RT Adriatic Sea
youth	GS chemical elements rare earth elements	. <b>Yugoslavia</b> RT Adriatic Sea Bosnia and Herzegovina
RT adults	GS chemical elements . rare earth elements yttrium	. <b>Yugoslavia</b> RT Adriatic Sea Bosnia and Herzegovina Croatia
RT adults growth	GS chemical elements . rare earth elements yttrium yttrium isotopes	. <b>Yugoslavia</b> RT Adriatic Sea Bosnia and Herzegovina Croatia Europe
RT adults	GS chemical elements . rare earth elements yttrium yttrium isotopes metals	. <b>Yugoslavia</b> RT Adriatic Sea Bosnia and Herzegovina Croatia
RT adults growth human beings	GS chemical elements . rare earth elements yttrium yttrium isotopes metals . rare earth elements	. <b>Yugoslavia</b> RT Adriatic Sea Bosnia and Herzegovina Croatia Europe
RT adults growth human beings yo-yo devices	GS chemical elements . rare earth elements . yttrium yttrium isotopes metals . rare earth elements . yttrium	. <b>Yugoslavia</b> RT Adriatic Sea Bosnia and Herzegovina Croatia Europe
RT adults growth human beings  yo-yo devices RT angular acceleration	GS chemical elements . rare earth elements . yttrium yttrium isotopes metals . rare earth elements . yttrium yttrium	. <b>Yugoslavia</b> RT Adriatic Sea Bosnia and Herzegovina Croatia Europe Serbska Republic
RT adults growth human beings  yo-yo devices RT angular acceleration gyroscopic stability	GS chemical elements . rare earth elements . yttrium yttrium isotopes metals . rare earth elements . yttrium yttrium yttrium yttrium isotopes . transition metals	. Yugoslavia RT Adriatic Sea Bosnia and Herzegovina Croatia Europe Serbska Republic  YUH-1 helicopter
RT adults growth human beings  yo-yo devices RT angular acceleration gyroscopic stability satellite rotation	GS chemical elements . rare earth elements yttrium yttrium isotopes metals . rare earth elements yttrium yttrium yttrium isotopes . transition metals yttrium	. Yugoslavia RT Adriatic Sea Bosnia and Herzegovina Croatia Europe Serbska Republic  YUH-1 helicopter
RT adults growth human beings  yo-yo devices RT angular acceleration gyroscopic stability satellite rotation spin	GS chemical elements . rare earth elements . yttrium yttrium isotopes metals . rare earth elements . yttrium yttrium yttrium yttrium isotopes . transition metals	. Yugoslavia RT Adriatic Sea Bosnia and Herzegovina Croatia Europe Serbska Republic  YUH-1 helicopter USE UH-1 helicopter  YUH-60A helicopter
RT adults growth human beings  yo-yo devices RT angular acceleration gyroscopic stability satellite rotation	GS chemical elements . rare earth elements . yttrium yttrium isotopes metals . rare earth elements . yttrium yttrium yttrium yttrium isotopes . transition metals . yttrium yttrium yttrium yttrium yttrium	. Yugoslavia RT Adriatic Sea Bosnia and Herzegovina Croatia Europe Serbska Republic  YUH-1 helicopter USE UH-1 helicopter
RT adults growth human beings  yo-yo devices RT angular acceleration gyroscopic stability satellite rotation spin spin reduction	GS chemical elements . rare earth elements . yttrium yttrium isotopes metals . rare earth elements . yttrium yttrium yttrium yttrium isotopes . transition metals yttrium yttrium yttrium	. 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
RT adults growth human beings  yo-yo devices RT angular acceleration gyroscopic stability satellite rotation spin spin reduction  yrast state	GS chemical elements . rare earth elements . yttrium yttrium isotopes metals . rare earth elements . yttrium yttrium yttrium yttrium isotopes . transition metals . yttrium yttrium yttrium sotopes yttrium alloys GS alloys	. Yugoslavia RT Adriatic Sea Bosnia and Herzegovina Croatia Europe Serbska Republic  YUH-1 helicopter USE UH-1 helicopter  VUH-60A helicopter USE UH-60A helicopter  YUH-61A helicopter
RT adults growth human beings  yo-yo devices RT angular acceleration gyroscopic stability satellite rotation spin spin reduction  yrast state (added December 2001)	GS chemical elements . rare earth elements . yttrium yttrium isotopes metals . rare earth elements . yttrium yttrium yttrium yttrium isotopes . transition metals . yttrium yttrium yttrium yttrium yttrium yttrium yttrium isotopes	. 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
RT adults growth human beings  yo-yo devices RT angular acceleration gyroscopic stability satellite rotation spin spin reduction  yrast state (added December 2001) DEF An energy state in which the energy	GS chemical elements . rare earth elements . yttrium yttrium isotopes metals . rare earth elements . yttrium yttrium yttrium yttrium isotopes . transition metals . yttrium yttrium yttrium sotopes yttrium alloys GS alloys	. Yugoslavia RT Adriatic Sea Bosnia and Herzegovina Croatia Europe Serbska Republic  YUH-1 helicopter USE UH-1 helicopter USE UH-60A helicopter USE UH-60A helicopter USE UH-61A helicopter USE UH-61A helicopter
RT adults growth human beings  yo-yo devices RT angular acceleration gyroscopic stability satellite rotation spin spin reduction  yrast state (added December 2001) DEF An energy state in which the energy level of a nucleus is less than that of all other	GS chemical elements . rare earth elements . yttrium yttrium isotopes metals . rare earth elements . yttrium yttrium isotopes . transition metals . yttrium yttrium sotopes transition metals yttrium yttrium isotopes yttrium alloys GS alloys yttrium alloys RT rare earth alloys	. 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  YUH-61A helicopter  YUH-61A helicopter  Yukawa potential
RT adults growth human beings  yo-yo devices RT angular acceleration gyroscopic stability satellite rotation spin spin reduction  yrast state (added December 2001) DEF An energy state in which the energy level of a nucleus is less than that of all other states with the same spin.	GS chemical elements . rare earth elements . yttrium yttrium isotopes metals . rare earth elements . yttrium yttrium yttrium isotopes . transition metals . yttrium yttrium . yttrium isotopes yttrium alloys GS alloys . yttrium alloys RT rare earth alloys yttrium compounds	. 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  Yuh-61A helicopter USE UH-61A helicopter  Yukawa potential RT meson-nucleon interactions
RT adults growth human beings  yo-yo devices RT angular acceleration gyroscopic stability satellite rotation spin reduction  yrast state (added December 2001) DEF An energy state in which the energy level of a nucleus is less than that of all other states with the same spin. GS level (quantity)	GS chemical elements . rare earth elements . yttrium yttrium isotopes metals . rare earth elements . yttrium yttrium yttrium isotopes . transition metals . yttrium yttrium . yttrium isotopes  yttrium alloys GS alloys . yttrium alloys RT rare earth alloys  yttrium compounds GS yttrium compounds	. 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  YUH-61A helicopter  YUH-61A helicopter  Yukawa potential
RT adults growth human beings  yo-yo devices RT angular acceleration gyroscopic stability satellite rotation spin spin reduction  yrast state (added December 2001) DEF An energy state in which the energy level of a nucleus is less than that of all other states with the same spin. GS level (quantity) energy levels	GS chemical elements . rare earth elements . yttrium yttrium isotopes metals . rare earth elements . yttrium yttrium yttrium yttrium isotopes . transition metals . yttrium yttrium yttrium sotopes  yttrium alloys GS alloys . yttrium alloys RT rare earth alloys  yttrium compounds GS yttrium compounds . yttrium compounds . yttrium compounds	. 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
RT adults growth human beings  yo-yo devices  RT angular acceleration gyroscopic stability satellite rotation spin spin reduction  yrast state (added December 2001)  DEF An energy state in which the energy level of a nucleus is less than that of all other states with the same spin.  GS level (quantity) . energy levels yrast state	GS chemical elements . rare earth elements . yttrium yttrium isotopes metals . rare earth elements . yttrium yttrium isotopes . transition metals . yttrium yttrium yttrium sotopes transition metals . yttrium yttrium yttrium alloys GS alloys . yttrium alloys RT rare earth alloys  yttrium compounds GS yttrium compounds . yttrium compounds . yttrium oxides . yttrium-aluminum garnet	. 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  YUH-61A helicopter USE UH-61A helicopter  Yuh-61A nelicopter USE UH-61A helicopter  Yukawa potential  RT meson-nucleon interactions  ∞ potential  Yukon aircraft
RT adults growth human beings  yo-yo devices  RT angular acceleration gyroscopic stability satellite rotation spin spin reduction  yrast state (added December 2001)  DEF An energy state in which the energy level of a nucleus is less than that of all other states with the same spin.  GS level (quantity)  . energy levels  . yrast state  RT ground state	GS chemical elements . rare earth elements . yttrium yttrium isotopes metals . rare earth elements . yttrium yttrium yttrium isotopes . transition metals . yttrium yttrium isotopes yttrium alloys GS alloys . yttrium alloys RT rare earth alloys yttrium compounds . yttrium compounds . yttrium oxides . yttrium-aluminum garnet . yttrium-iron garnet	. 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
RT adults growth human beings  yo-yo devices RT angular acceleration gyroscopic stability satellite rotation spin reduction  yrast state (added December 2001) DEF An energy state in which the energy level of a nucleus is less than that of all other states with the same spin. GS level (quantity) . energy levels yrast state RT ground state nuclear spin	GS chemical elements . rare earth elements . yttrium yttrium isotopes metals . rare earth elements . yttrium yttrium yttrium isotopes . transition metals . yttrium yttrium isotopes  yttrium alloys GS alloys . yttrium alloys RT rare earth alloys  yttrium compounds GS yttrium compounds . yttrium oxides . yttrium-aluminum garnet . yttrium-iron garnet RT ∞ chemical compounds	. 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  YUH-61A helicopter USE UH-61A helicopter  Yuh-61A nelicopter USE UH-61A helicopter  Yukawa potential  RT meson-nucleon interactions  ∞ potential  Yukon aircraft
RT adults growth human beings  yo-yo devices  RT angular acceleration gyroscopic stability satellite rotation spin spin reduction  yrast state (added December 2001)  DEF An energy state in which the energy level of a nucleus is less than that of all other states with the same spin.  GS level (quantity)  . energy levels  . yrast state  RT ground state	GS chemical elements . rare earth elements . yttrium yttrium isotopes metals . rare earth elements . yttrium yttrium yttrium isotopes . transition metals . yttrium yttrium isotopes  yttrium alloys GS alloys . yttrium alloys RT rare earth alloys  yttrium compounds GS yttrium compounds . yttrium oxides . yttrium-aluminum garnet . yttrium-iron garnet RT ∞ chemical compounds ∞ Group 3B compounds	Purposlavia RT Adriatic Sea Bosnia and Herzegovina Croatia Europe Serbska Republic  Pul-1 helicopter USE UH-1 helicopter USE UH-60A helicopter USE UH-60A helicopter USE UH-61A helicopter  Yukawa potential RT meson-nucleon interactions ∞ potential  Yukon aircraft USE CL-44 aircraft
RT adults growth human beings  yo-yo devices RT angular acceleration gyroscopic stability satellite rotation spin spin reduction  yrast state (added December 2001) DEF An energy state in which the energy level of a nucleus is less than that of all other states with the same spin. GS level (quantity) . energy levels . yrast state RT ground state nuclear spin nuclei (nuclear physics)	GS chemical elements . rare earth elements . yttrium yttrium isotopes metals . rare earth elements . yttrium yttrium yttrium isotopes . transition metals . yttrium yttrium isotopes  yttrium alloys GS alloys . yttrium alloys RT rare earth alloys  yttrium compounds GS yttrium compounds . yttrium oxides . yttrium-aluminum garnet . yttrium-iron garnet RT ∞ chemical compounds	. 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  YUH-61A helicopter USE UH-61A helicopter  Yuh-61A nelicopter USE UH-61A helicopter  Yukawa potential  RT meson-nucleon interactions  ∞ potential  Yukon aircraft
RT adults growth human beings  yo-yo devices RT angular acceleration gyroscopic stability satellite rotation spin spin reduction  yrast state (added December 2001) DEF An energy state in which the energy level of a nucleus is less than that of all other states with the same spin. GS level (quantity) . energy levels . yrast state RT ground state nuclear spin nuclei (nuclear physics)  YS-11 aircraft	GS chemical elements . rare earth elements . yttrium yttrium isotopes metals . rare earth elements . yttrium yttrium isotopes . transition metals yttrium yttrium isotopes  yttrium alloys GS alloys . yttrium alloys RT rare earth alloys  yttrium compounds GS yttrium compounds . yttrium oxides . yttrium-aluminum garnet . yttrium-iron garnet RT ∞ chemical compounds ∞ Group 3B compounds ∞ metal compounds	Purposlavia RT Adriatic Sea Bosnia and Herzegovina Croatia Europe Serbska Republic  Pull-1 helicopter USE UH-1 helicopter USE UH-60A helicopter USE UH-60A helicopter USE UH-61A helicopter  Pull-61A helicopter USE UH-61A helicopter  Yuhawa potential RT meson-nucleon interactions ∞ potential  Yukon aircraft USE CL-44 aircraft  Yukon Territory GS nations
RT adults growth human beings  yo-yo devices RT angular acceleration gyroscopic stability satellite rotation spin reduction  yrast state (added December 2001) DEF An energy state in which the energy level of a nucleus is less than that of all other states with the same spin. GS level (quantity) . energy levels yrast state RT ground state nuclear spin nuclei (nuclear physics)  YS-11 aircraft UF Nihon YS-11 aircraft	GS chemical elements . rare earth elements . yttrium yttrium isotopes metals . rare earth elements . yttrium yttrium yttrium isotopes . transition metals . yttrium yttrium isotopes  yttrium alloys GS alloys . yttrium alloys RT rare earth alloys  yttrium compounds GS yttrium compounds . yttrium oxides . yttrium-aluminum garnet . yttrium-iron garnet RT ∞ chemical compounds ∞ Group 3B compounds w metal compounds yttrium isotopes	Purposlavia RT Adriatic Sea Bosnia and Herzegovina Croatia Europe Serbska Republic  Pul-1 helicopter USE UH-1 helicopter USE UH-60A helicopter USE UH-60A helicopter USE UH-61A helicopter Vukawa potential RT meson-nucleon interactions ∞ potential  Pukon aircraft USE CL-44 aircraft  Vukon Territory GS nations Canada
RT adults growth human beings  yo-yo devices RT angular acceleration gyroscopic stability satellite rotation spin spin reduction  yrast state (added December 2001) DEF An energy state in which the energy level of a nucleus is less than that of all other states with the same spin. GS level (quantity) . energy levels . yrast state RT ground state nuclear spin nuclei (nuclear physics)  YS-11 aircraft	GS chemical elements . rare earth elements . yttrium yttrium isotopes metals . rare earth elements . yttrium yttrium isotopes . transition metals yttrium yttrium isotopes  yttrium alloys GS alloys . yttrium alloys RT rare earth alloys  yttrium compounds GS yttrium compounds . yttrium oxides . yttrium-aluminum garnet . yttrium-iron garnet RT ∞ chemical compounds ∞ Group 3B compounds ∞ metal compounds	Purposlavia RT Adriatic Sea Bosnia and Herzegovina Croatia Europe Serbska Republic  Pull-1 helicopter USE UH-1 helicopter USE UH-60A helicopter USE UH-60A helicopter USE UH-61A helicopter  Pull-61A helicopter USE UH-61A helicopter  Yuhawa potential RT meson-nucleon interactions ∞ potential  Yukon aircraft USE CL-44 aircraft  Yukon Territory GS nations

Z1 truss structure	noon	zero power reactor 9
(added October 2000)	solar position	
USE Integrated Truss Structure Z1	zaelitee	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
(added November 1997)	. 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)
	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
contract to the U.S. and is owned by the U.S.	USE weightlessness	subaudible frequencies
GS modules	Tava lift	Toko cum domos
. space station modules Zarya control module	zero lift GS aerodynamic characteristics	zero sum games (added October 1998)
RT International Space Station	. lift	GS games
TT momational opaco otation	zero lift	. zero sum games
zea mays	aerodynamic forces	RT differential games
(added August 2004)	. lift	Markov processes
USE corn	zero lift	optimal control
Zeeman effect	dynamic characteristics	pursuit-evasion games saddle points (game theory)
RT ∞ effects	. lift zero lift	saddle politis (gaine theory)
magnetic fields	RT aerodynamic stalling	zero-g ACPL (Spacelab)
spectroscopy	boundary layer separation	USE Atmospheric Cloud Physics Lab
spectrum analysis	distribution (property)	(Spacelab)
Stark effect		, ,
Voigt effect	zero point energy	Zeta Aurigae star
zeitgebers	DEF Kinetic energy retained by molecules	GS celestial bodies
(added December 2001)	of a substance at a temperature of absolute zero.	. stars
DEF Environmental cues that help keep cir-	RT absolute zero	double stars
cadian and other biological rhythms; includes	field theory (physics)	binary stars
sunlight, noise, social interactions, and the use	kinetic energy	eclipsing binary stars <b>Zeta Aurigae star</b>
of clocks.	thermodynamic properties	RT Auriga constellation
GS cues . zeitgebers		3
RT activity cycles (biology)	zero power reactor 2	zeta pinch
circadian rhythms	GS nuclear reactors . liquid cooled reactors	DEF Type of plasma pinch produced by an
darkness	water cooled reactors	electric current applied axially to a plasma cyl-
desynchronization (biology)	heavy water reactors	inder in a controlled fusion reactor.
phenology	zero power reactor 2	GS pinch effect . plasma pinch
physiological responses rhythm (biology)	zero power reactors	zeta pinch
∞ stimuli	zero power reactor 2	RT controlled fusion
visual stimuli	. nuclear research and test reactors	magnetohydrodynamic stability
	zero power reactor 2	plasma compression
Zener diodes	zero power reactor 3	plasma control
USE avalanche diodes	GS nuclear reactors	plasma electrodes
Zener effect	. liquid cooled reactors	plasma focus Q devices
RT barrier layers	water cooled reactors	rotating plasmas
carrier density (solid state)	zero power reactors	screw pinch
∞ carriers	zero power reactor 3	theta pinch
∞ effects	. nuclear research and test reactors zero power reactor 3	
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	Zoue missile
. Zenit launch vehicles	zero power reactors	Zeus missile USE Nike-Zeus missile
RT sea launching	zero power reactor 6	COL MINO ECUS IIIISSIIC
Ukrainian space program	. nuclear research and test reactors zero power reactor 6	Ziegler catalyst
zenith	2010 power reactor 0	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 Rhodesia
celestial sphere	zero power reactor 9	GS nations
maxima	. nuclear research and test reactors	. Zimbabwe

RT Africa 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 ment for electric vehicles. GS 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 opposing edges of two tapes and a movable part . . chlorides ... zinc sulfides . . . . wurtzite ... zinc chlorides called a 'slider' that spans the interlockable . . metal halides . zincblende 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) . . wurtzite zinc tellurides RT iron alloys . . zincblende tin alloys . zinc tellurides zinc tungstates tungsten compounds zirconates zinc tungstates GS RT ∞ chemical compounds . tungstates zirconium compounds . zinc tungstates . zirconates . . barium zirconates ∞ metal compounds zinc compounds . zinc tungstates . . strontium zirconates zinc fluorides GS halogen compounds zincblende zirconia . fluorine compounds Zinc sulfide, ZnS; a cubic crystal. Used USE zirconium oxides . . fluorides for sphalerite. . . . metal fluorides sphalerite zirconium . zinc fluorides GS chalcogenides chemical elements . 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 . . . . zirconium 95 ... zinc isotopes . . . zirconium isotopes zinc-bromide batteries . zinc 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 UF zonal circulation . . . . zirconium 95 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) jet streams (meteorology) zirconia 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 quasi-biennial oscillation zirconium oxides . zirconium carbides wind (meteorology) . . yttria-stabilized zirconia zirconium compounds wind direction zirconium carbides zirconium titanates wind profiles GS titanium compounds zirconium compounds . titanates zonal harmonics GS zirconium compounds . . zirconium titanates GS analysis (mathematics) . zirconates . lead zirconate titanates . functional analysis . . barium zirconates zirconium compounds . . harmonic analysis . . 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 Scutum constellation . Zond 1 space probe ... lead zirconate titanates . Zond space probes zirconium fluorides zodiacal dust Zond 1 space probe 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 (added April 2004) . . Venus probes . 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 Soviet spacecraft . . . metal fluorides . dust . Zond space probes . zirconium fluorides . . cosmic dust Zond 2 space probe zirconium compounds ... interplanetary dust zirconium fluorides unmanned spacecraft .... meteoroid dust clouds . 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

metals . transition metals . . zirconium

Zond 4 space probe

Soviet spacecraft . Zond space probes

space probes

unmanned spacecraft

## Zond 5 space probe

	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
	space probe			Zond 4 space probe
GS	interplanetary spacecraft . Venus probes			Zond 5 space probe Zond 6 space probe
	Zond 5 space probe			Zond 6 space probe Zond 7 space probe
	Zond space probes			Zond 8 space probe
	Zond 5 space probe	F	RT	Mars probes
	Soviet spacecraft			
	. Zond space probes Zond 5 space probe			elting
	unmanned spacecraft		JF	zone refining
	. space probes	G	iS	phase transformations . freezing
	. Venus probes			zone melting
	Zond 5 space probe			. melting
	. Zond space probes Zond 5 space probe			zone melting
	Zona 5 space probe	F	RT	arc melting
Zond 6	space probe			crystallization float zones
GS	interplanetary spacecraft			purification
	. Venus probes			refining
	Zond 6 space probe . Zond space probes		٥	∘ separation
	Zond 6 space probe			ultrapure metals
	Soviet spacecraft			vacuum melting
	. Zond space probes	700	o ro	fining
	Zond 6 space probe		9 7 <i>0</i> . SE	fining zone melting
	unmanned spacecraft		_	zono morang
	. space probes Venus probes	zone	es	
	Zond 6 space probe	US	SΕ	regions
	. Zond space probes			
	Zond 6 space probe	∞ <b>z</b> 00		
7and 7		٤	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS
GS GS	space probe interplanetary spacecraft	_	_	LISTED BELOW)
ao	. Venus probes	F	RT	animals
	Zond 7 space probe			botany entomology
	. Zond space probes		۰	• science
	Zond 7 space probe			taxonomy
	Soviet spacecraft . Zond space probes			
	Zond 7 space probe			enses
	unmanned spacecraft	G	iS	lenses
	. space probes		RT	. zoom lenses
	Venus probes		11	lens design
	Zond 7 space probe . Zond space probes	200	olar	nkton
	Zond 7 space probes	DE	F	The aggregate of passively floating or
				animal organisms in aquatic ecosys-
	space probe	tems		a nimala
GS	interplanetary spacecraft	G	iS	animals . zooplankton
	. Venus probes Zond 8 space probe			plankton
	. Zond space probes			. zooplankton
	Zond 8 space probe	F	RT	marine biology
	Soviet spacecraft			phytoplankton
	. Zond space probes	705		,
	Zond 8 space probe unmanned spacecraft			actors zero power reactors
	. space probes	03		20.0 power reactors
	Venus probes	Zun	i ro	cket vehicle
	Zond 8 space probe		iS	rocket vehicles
	. Zond space probes			. single stage rocket vehicles
	Zond 8 space probe	-	ът.	Zuni rocket vehicle
Zond sp	pace probes	r	RT	solid propellant rocket engines
GS	interplanetary spacecraft	71/0	zdo.	Service Module
	Zond space probes			ed June 2000)
	Zond 1 space probe		SE.	
	Zond 2 space probe Zond 3 space probe			
	Zond 4 space probe			onic compounds
	Zond 5 space probe			ed October 2001)
	Zond 6 space probe	US	SE	zwitterions
	Zond 7 space probe	= 9	٠	one
	Zond 8 space probe Soviet spacecraft	zwit		ons ed October 2001)
	. Zond space probes		auu EF	lonic compounds that include both
	Zond 1 space probe			- and negative-charge components but
	Zond 2 space probe	are	neu	tral overall.
	Zond 3 space probe	ι	JF	dipolar ions
	Zond 4 space probe Zond 5 space probe	F	RT	zwitterionic compounds amino acids
	Zond 5 space probe	Г		amino acids ∘ chemical compounds
	Zond 7 space probe			o dipoles
	Zond 8 space probe			electric dipoles

polarization characteristics polymerization surfactants zygotes
(added August 2004)

DEF The fertilized ovum resulting from the fusion of a male and female gamete.

GS cells (biology)
. gametocytes
. . eggs
. . . zygotes

RT embryos
females
fertility
fertilization
reproduction (biology)
sex
spermatozoa

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